

ISSN-1560-604X
Thermology international

Volume 23 (2013)
Number 3 (August)

Thermology

International

Thermology 2012 - literature survey

Thermal Changes after IUD Insertion

This journal is indexed in
EMBASE/Excerpta Medica

Published by the
European Association of Thermology

THERMOLOGY INTERNATIONAL

Volume 23 (2013)

Number 3 (August)

**Published by the
European Association of Thermology**

Indexed in
Embase/Excerpta Medica

Editor in Chief
K. Ammer, Wien

Technical/ Industrial Thermography
Section Editor: R.Thomas, Swansea

Editorial Board

I.Benkö, Budapest

S.Govindan, Wheeling

E.F.J.Ring, Pontypridd

M. Brioschi, Sao Paolo

K.Howell, London

J.Gabrhel, Trencin

T. Conwell, Denver

K.Mabuchi, Tokyo

B.Wiecek, Lodz

L.de Thibault de Boesinghe, Gent

J.B.Mercer, Tromsø.

Usuki H, Miki

A.DiCarlo, Rom

A.Jung, Warsaw

R.Vardasca, Porto

Organ of the American Academy of Thermology

Organ of the Brazilian Society of Thermology

Organ of the European Association of Thermology

Organ of the Polish Society of Thermology

Organ of the UK Thermography Association (Thermology Group)

Contents (INHALTSVERZEICHNIS)

Original article (ORIGINALARBEIT)

EPHE van der Veen

- Viscero-cutaneous reflexes in relation to abdominal and pelvic pain.
A study from 1982 in females with IUD insertions.....87
(Die Relation viszero-kutaner Reflexe zu abdominalen und Beckenschmerzen. Eine Studie Im Jahre 1982 mit IUD-versorgten Frauen)

Review (ÜBERSICHT)

K Ammer

- Thermology 2012 - a computer assisted literature search..... 93
(Thermologie 2012 - eine Computer gestützte Literatursuche)

Meetings (VERANSTALTUNGEN)

- Meeting calendar.....142

Viscero-cutaneous reflexes in relation to abdominal and pelvic pain. A study from 1982 in females with IUD insertions

PHE van der Veen

Chronic Pain Science Foundation, Heerhugowaard, The Netherlands

SUMMARY

OBJECTIVES: The aim of this study was to establish whether there is a relationship between a specific area of the abdominal wall and the uterus as the accompanying organ.

The null hypothesis in this study was: the uterus has no specific area of skin which relates to viscerocutaneous reactivity. The study had to be able to take place in a G.P.'s practice, and had to comply with strict medical ethics requirements (a medical ethics review board did not exist at that time), particularly the study must not constitute any risk or cause any discomfort to the participants.

STUDY DESIGN: The target group consisted of 31 healthy women between 20 and 45 years of age who wanted an IUD inserted or replaced. The study took place in a G.P.'s practice where IUDs had already been inserted over a period of many years.

INTERVENTION: The IUD-insertion procedure was not changed during the study. After oral consent had been obtained from the patient, infrared thermographic images were recorded of the abdominal wall immediately before and after IUD insertion.

STATISTICS: The average temperatures of four areas were measured and analysed in 1982 and 2012 with the Wilcoxon Signed Rank test.

RESULTS: There is one specific area where the skin temperature changes significantly more than elsewhere ($p < 0.001$). This area is the same area as the one in which temperature changes have been measured in a study with pregnant women.

CONCLUSIONS: The null hypothesis must be rejected. This study shows the potential of mapping 'referred zones' with infrared thermography. The findings also question abdominal wall pain as an independent disease entity. Changes of inner organs should be considered as cause of abdominal wall pain.

KEYWORDS: Chronic pain, infrared thermography, abdominal wall pain, pelvic pain.

DIE RELATION VISZERO-KUTANERS REFLEXES ZU ABDOMINALEN UND BECKENSCHMERZEN. EINE STUDIE IM JAHRE 1982 MIT IUD-VERSORGTE FRAUEN

ZIEL: Ziel der Studie war es zu zeigen, ob ein reflektorischer Zusammenhang zwischen einem bestimmten Gebiet der Bauchwand und der Gebärmutter besteht.

Die Nullhypothese in dieser Studie war, dass die Gebärmutter in keinem speziellen Bereich der Haut viszerokutane Reaktivität entwickelt. Die Studie musste in der Praxis eines Allgemeinmediziners durchführbar sein und strenge Anforderungen der medizinischen Ethik erfüllen, da eine medizinische Ethikkommission zu dieser Zeit (1982) nicht existierte. Insbesondere durfte die Studie weder ein Gesundheitsrisiko noch ein Unbehagen bei den Teilnehmern verursachen.

STUDIEN-DESIGN: Die Zielgruppe bestand aus 31 gesunden Frauen zwischen 20 und 45 Lebensjahren, die eine erstmalige Versorgung mit oder den Ersatz einer vorhandenen IUD (Spirale) wünschten. Die Studie fand in der Praxis eines Allgemeinmediziners statt, in der Frauen bereits seit vielen Jahren mit IUD versorgt worden waren.

INTERVENTION: Das Verfahren zur Versorgung mit einer intrauterinen Spirale wurde während der Studie nicht verändert. Nach Erklärung des mündlichen Einverständnisses zur Teilnahme an der Studie, wurden vor und unmittelbar nach der Versorgung mit einer IUD Infrarot-Wärmebilder der Bauchdecke aufgenommen.

STATISTIK: Die Durchschnittstemperatur wurde in vier Bereichen der Bauchdecke gemessen und die Daten in den Jahren 1982 und 2012 mittels Wilcoxon Rang Test analysiert.

ERGEBNISSE: Es fand sich eine spezifische Region, in der die Hauttemperatur signifikant deutlicher variierte als irgendwo sonst ($p < 0.001$). Dieses Hautareal ist dasselbe, in der auch in der Studie mit schwangeren Frauen Temperaturänderungen beobachtet worden waren.

SCHLUSSFOLGERUNG: Die Null Hypothese musste abgelehnt werden. Diese Studie zeigt das Potenzial der Infrarot-Thermografie zur Darstellung von "Reflex- Zonen" auf der Haut. Die Ergebnisse stellen auch den "Bauchdeckenschmerz" als eigenständiges Krankheitsbild in Frage. An Veränderungen von inneren Organen sollte als Ursache von Bauchdeckenschmerzen gedacht werden.

SCHLÜSSELWÖRTER: Chronischer Schmerz, Infrarot-Thermographie, Bauchdeckenschmerz, Beckenschmerz

Themology international 2013, 23(3) 87-92

Introduction

When abdominal pain symptoms are present, first of all causes are sought in the abdomen itself; although there is increasing interest in the abdominal wall as an independent source of myofascial or other pain. Looked at from the point of view of segmental embryonic development, that can only be part of the truth.

Segments

As early as 1886, Head [1] described areas of skin with increased sensitivity on non-damaging stimulation. This sensitivity was redefined in 1979 [2]. Head demonstrated the segmental nature of these areas, which was confirmed by others [3,4]. A segment is the total area, innervated by a spinal nerve [5]. Head postulated that there is a relationship between these areas and internal diseases. This explains 'referred pain.' In the same way, visceral changes can trigger vascular activity in the skin. In view of this, a correlation between 'referred pain' and local skin temperature was presumed and even between skin temperature and internal disease [6].

Skin temperature

In 1954, the results of studies with contact thermometry were described [7,8]. Skin temperature in segmental zones, related to pain, was almost always lower in their study groups than in other skin areas. Contact thermometry was also used later in the diagnosis of different medical situations [9,10].

Contact-free infrared thermography does, however, have the advantage of the skin temperature not being affected by the measuring instrument. [11]. Furthermore, it offers the possibility of carrying out observations on different large areas of skin at the same time [11,12]. Nerve root irritation [13] and sympathetic dysfunction [14] are accepted as the cause of a change in skin temperature.

The scope of the study

The question here is whether visceral changes can be established by a change in the skin temperature of the accompanying segmental zone. If these changes can be found, the question can be asked whether they can be explained by temperature conduction or radiation, instead of by segmental, neural connections.

Another question, not answered here, is whether a relationship between visceral and referred pain and visceral changes can be established by means of thermography. It is true that pain is also experienced by the skin in visceral conditions, and such pain is different from visceral pain. However, it remains unclear whether this pain is actually generated in the skin or only experienced in it.

Development of diagnostics and therapy in abdominal pain symptoms (1962-2012)

In 1962, a text book was published which brought together the knowledge on this subject collected at that time [4]. Over the years, the interest in the myofascial aspect of metamorphism in particular has increased [15,16,17,18,19]. It is an established fact that the costs of abdominal pain syndrome are high [20,21], on the one hand due to the frequent occurrence of the condition, and on the other due to its

multidisciplinary nature and the difficult diagnostics and the costs of abdominal procedures (22,23).

The main problem was and is the difficulty of establishing a causal relationship between pain and the condition found. That asks for a simplified way of diagnosing and treating the condition. Carnett's sign (24,25,26,27) and the reduction of pain after local anaesthesia (28) are increasingly being seen as proof of the absence of visceral processes. Abdominal pain is then seen as an independent myofascial entity. Theoretically - supported by extensive literature - (4) and later research (29), that cannot be correct. The viscera are connected via reflex pathways with the central nervous system, the muscles, the skeleton and, not to be forgotten, the skin. Vice versa these organ systems influence each other. Until 1981, this viscerocutaneous and cutaneous-visceral activity had never been established experimentally in vivo in man. The proof relied on animal studies and indirect verification.

A study carried out in pregnant women (30) indicates the existence of viscerocutaneous skin reactions in human pregnancy. After 1995, very little research has been carried out into pain transfer via viscerocutaneous reflex pathways.

Aim of the study

This study describes an experimental hypothesis-testing study in man in vivo into the existence of viscerocutaneous reflex pathways. The study was carried out in 1982 and has not been published before. The aim was to investigate whether, in spite of the literature against it, abdominal wall pain could indeed be an independent entity.

The null hypothesis in this study was: the uterus has no specific area of skin which relates to viscerocutaneous reactivity.

Study Conduction

In 1925, cutaneous-visceral activity was demonstrated in glass eels by stimulating the skin (31). The blood flow in the viscera changed. Therefore, conversely, the blood flow in the skin was selected as the parameter for viscerocutaneous activity. Since the sixties, it has been possible to measure the blood flow of the skin with non-contrast infrared thermography with an absolute accuracy of 0.1 °C. For the study a sufficient number of volunteers from general practice were needed.

Ethics

For ethical reasons a study or treatment should only be carried out if it is commonly used in general practice, should involve no extra discomfort or risk for the volunteer and would not require any recruitment to be carried out. The solution was found in the group of women who wanted to use an intrauterine device (IUD) as a method of contraception. They were found in a general practice where IUDs had been inserted for years and there was therefore ample experience of inserting them. The IUD-insertion procedure was not changed by the study. Infrared thermography was added after this had been explained orally to the patients and their consent had been obtained..

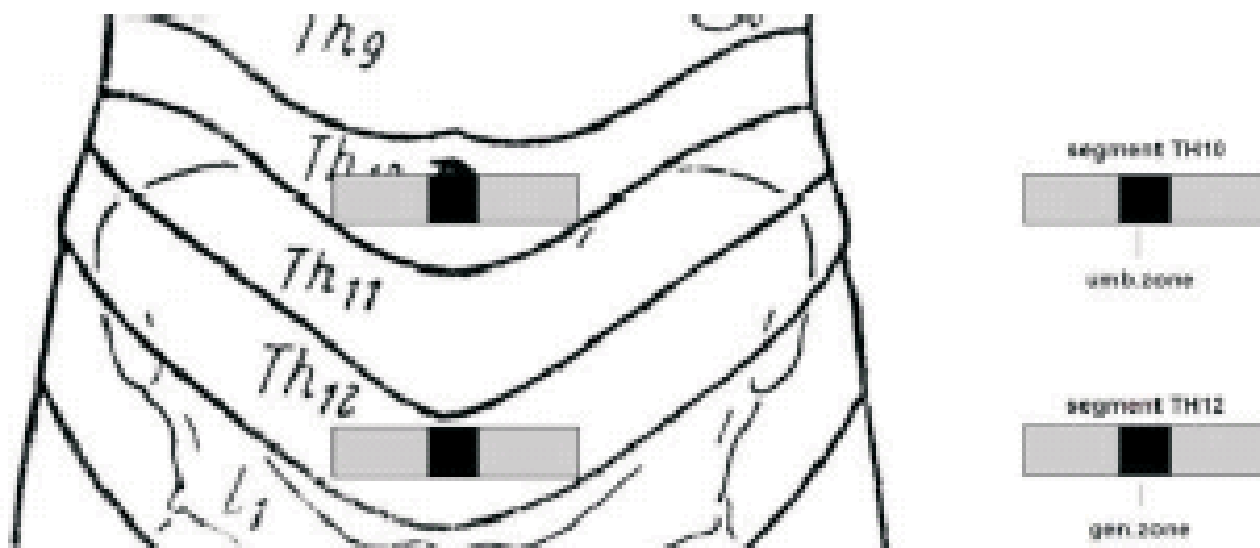


Figure 1

The entire rectangle is the area measured 'segment Th10'. The 'Umb. zone,' referred to as the navel zone in the text, is the black part. The same applies for segment Th 12 and the 'gen. zone' (genital zone). These zones are the same as those used in the literature.

Then the average temperature of four areas of the abdominal wall was measured immediately before and after IUD insertion. In 10 women (Phase I) thermistors were attached to the abdominal wall. Then continuous measurement was carried out for 15 minutes. The participants were informed about this orally and in writing. Written informed consents did not exist at that time, nor did medical ethics committees. The Declaration of Helsinki was followed.

Method

There were three phases in the total study.

Phase I: Control at the correct measurement sites

The control group consisted of 10 healthy volunteers who wanted an IUD inserted (N=5) or replaced (N=5). They were between 20 and 45 years of age. The skin temperature was measured at the standard areas for up to 15 minutes after IUD insertion. The data were collected with 4 contact thermistors with a 1.5 second interval. Via an interface they were connected to an 800 XL Atari PC. YSI [Yellow Springs Instruments] specifications were used. (YSI 43 TD). A KIPP plotter was connected for the results. The sensitivity of the system was 0.1 °C.

Phase II: insertion of IUDs

Phase III: Control on conduction/radiation

14 experiments with a healthy volunteer, whose skin in the region above the stomach was measured after she had consumed hot drinks or ice-cream. The temperature variation was in the range of +50 °C to -18 °C. The genital zone, the gall bladder region and the forehead were used as reference points. An infrared thermometer (Heiman KT 41, 1 channel) was used in 3 experiments for continuous measurement; intermittent 4-channel recording in 11 experiments. Control experiments without taking in fluid were also carried out.

Population

The Phase II study group consisted of 31 healthy women aged between 20 and 45. 15 of them had not had an IUD



Figure 2

Philips Thermo graph, 1980 modification

previously. In 16 of them the IUD was being replaced. In all cases a 'Copper T' was inserted.

Technique of infrared imaging

The measurements were carried out with a Philips Thermo graph, 1980 modification (Fig. 2), on 4 sites on the skin of the abdomen (Fig. 1). The measurements were recorded from the display screen in real time on diapositive film (18 DIN) immediately before and immediately after IUD insertion. There were no facilities for electronic data storage.

An area of 5 x 5 cm was used as the core measuring area, in the middle of the lower abdomen, directly above the pubic hairline. This is the area in which pain is often reported in gynaecological conditions. It is known in the literature as the 'genital zone' (4). It was compared with an area of the same size and the upper limit of which was the navel, further referred to as the 'navel zone,' a larger area 25 x 5 cm above the pubic hairline of the same dermatome, further

referred to as 'segment Th12' and a comparable area with the navel as the upper limit, referred to as 'segment Th10.' It was accepted that the outcomes of segment TH12 were influenced by those of the 'genital zone.'

Measuring was always carried out in the same room under standard conditions with a standard room temperature: 21° C, standard humidity and active air-conditioning (32). The humidity was monitored with a Thies Clima Hygrothermograph 01777; accuracy 0.5 °C. Targeted dynamic air-conditioning was used for 30 seconds with a wall ventilator at a distance of 2 metres, followed by three minutes of adaptation.

Statistics

Statistical analysis was performed with the software R-2.13.2 The Wilcoxon Rank test was used because the conditions of the normality of the differences (for example between Δt_{gen} and Δt_{Th12}) were not always complied with and the number of observations was small.

Results

Phase I

The temperature graph showed a maximum effect 5-10 minutes after starting the IUD procedure. No further increase was seen.(Fig.3)

Phase II

Before IUD insertion.

In the case of first-time insertion: no significant differences between the skin areas to be measured. In the case of replacement: very weak significance of the genital zone compared with the navel zone. ($P < 0.03$) Otherwise, no significant differences.

For the temperature differences (ΔT) before and after insertion, the two groups were therefore added together.

After insertion the navel zone ($P = 0.03$) and segment Th10 ($P = 0.02$) also rose in temperature.

Wilcoxon-Test

The average change in temperature as a result of the insertion of the IUD was significantly greater in the genital zone than in the navel zone (0.47 degrees Celsius, 99% CI 0.21 to 0.73, $p < 0.001$).

The average change in temperature as a result of the insertion of the IUD was significantly greater in segment Th12 than in segment Th10 (0.3 degrees Celsius, 99% CI 0.09-0.52).

Although all the areas of skin measured rose in temperature on insertion of an IUD, the temperature of the genital zone increased significantly more ($P < 0.001$).

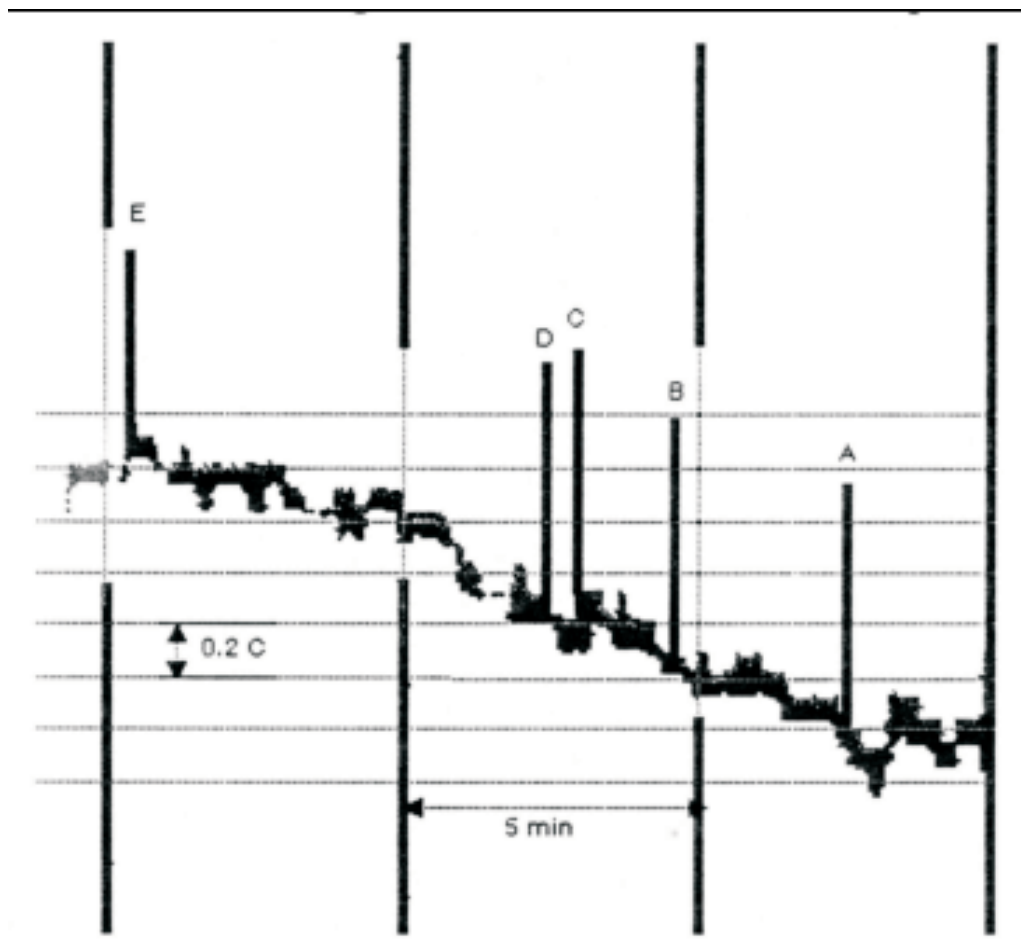


Figure 3
A. Start of the insertion procedure, B. Clamping of the uterus, C. Insertion of the IUD,
D. Removal of the cervical clamp E. End of the procedure

Table 1
Temperatures measured before and immediately after IUD insertion

Gem A (Gem Δt - gen)	0.73	Gem A (Gem Δt - gen)	0.73
Gem B (Gem Δt - Th12)	0.46	Gem C (Gem Δt -umb)	0.26
n= number of observations	31	n= number of observations	31
Gem A - Gem B	0.27	Gem A - Gem C	0.47
Std dev Gem A - Gem B	0.28	Std dev Gem A - Gem C	0.53
Confidence interval	0.06-0.34	Confidence interval	0.21-0.73
P-value (Wilcoxon)	<0.001	P-value (Wilcoxon)	<0.001
Gem C (Gem Δt - umb)	0.26	Gem B (Gem Δt - Th12)	0.46
Gem D (Gem Δt - Th10)	0.16	Gem D (Gem Δt - Th10)	0.16
n= number of observations	28	n= number of observations	28
Gem C - Gem D	-0.1	Gem B - Gem D	0.30
Std dev Gem C - Gem D	0.229	Std dev Gem B - Gem D	0.40
Confidence interval	-0.11-0.13	Confidence interval	0.09-0.52
P-value (Wilcoxon)	0.464	P-value (Wilcoxon)	<0.001

Gem A is short for Gem. delta t genital zone; Gem B idem for Gem. delta t segment Th12;
Gem C idem for Gem. delta t umb zone; Gem D idem for Gem. delta t segment Th 10. [Gem = average]
“n=number of observations” is the maximum number of observations which could be included in the calculation.

There was a significant difference in temperature between the genital zone and segment TH12 (0.20 Celsius, 99% CI 0.06-0.34, $P < 0.001$), but not between the navel zone and segment TH10. (0.010 Celsius, 99% CI -0.11 to 0.13, $p = 0.464$).

Phase III:

There was a slight reaction in the area of the stomach but no reaction in the reference areas. After ice-cream there was a slight rise in the skin temperature (0.3-0.4 °C).

After hot drinks there was no reaction or a slight drop in temperature. A slight drop was sometimes found in the control experiments.

Discussion

Small rises in skin temperature were found in almost all IUD experiments, particularly in the genital zone. These occurred a maximum of 10 minutes after the start of the procedure. The results of the intermittent 4-channel recording therefore also justify the measurement just before and just after the insertion procedure. The temperature increase is difficult to explain by conduction, convection or an induced change in the temperature of the uterus. Anatomically the uterus does not lie against the abdominal wall. The medium for this is not isotropic and homogeneous, there is a question of flow and the temperature differences are very small. Nor do the phase III experiments give any indication in this direction.

The relationship between the area of the uterus and the genital zone may therefore be causal in nature. Whether this effect is the result of manipulation or local nociception or both still needs to be clarified.

Skin temperature cannot only be influenced by central pain mechanisms in relation to nociception. Stress and emo-

tions also do this. The central mechanisms, involved in acute pain, may be responsible as far as the part of the total body temperature change is concerned.

The drop in temperature in some volunteers may be the result of total and local skin reactions possibly mediated by prostaglandins.

In previous study [30] the relationship between the skin temperature of the genital zone and a pregnancy was established. In this study it was the relationship between the uterus and the genital zone. From this it can be deduced that the functional condition of the uterus can be visualized with infrared thermography by measuring the temperature of the accompanying skin segment, probably via viscerocutaneous reflex pathways.

Pain transfer can also take place via this route, even if that has not been established in this study. The experience of pain in the skin is not by definition the same as the generation of pain in the skin. Later studies [33] confirm the outcomes described. But these studies too do not give a full explanation of the transfer of pain via these reflexes. The transfer of pain to 'referred zones' is assumed by the pattern of pain experienced: sharp and circumscribed instead of vague and diffuse. The same happens when clamping the cervix: a sharp, circumscribed pain in the genital zone instead of a diffuse, vague pain. Pain generation was not investigated.

Closer investigation with elimination of the cutaneous element by means of local anaesthesia of the dermatome should be able to remove this uncertainty.

Conclusions

The null hypothesis of this study should be rejected. There is a relationship between the uterus and the genital zone.

A change in skin temperature can be found in an accompanying segmental zone in IUD insertion. Viscero-cutaneous reflexes may be (also) responsible for this.

Central pain-related mechanisms can influence the local temperature reaction. Conduction does not play a role in this.

The area found here, linked to the uterus segmentally, is the same as the area in which in a pregnancy too a significant rise in temperature occurs.

That means that abdominal wall pain may possibly have something to do with a process taking place in the abdomen. Carnett's test method and the elimination of an abdominal wall nerve are therefore not valid tests for ruling out problems with the abdominal contents.

The existence of organ-related skin areas, to be established by infrared thermography, in theory offers the opportunity for 'mapping' the abdominal organs.

That should be able to contribute towards cheaper, faster and less invasive diagnostics in the case of abdominal pain symptoms.

References

- Head H. Die Sensibilitätsstörungen der Haut bei Visceralerkrankungen. Berlin: Hirschwald; 1898.
- Merskey H, Albe-Fessard DG, Bonica JJ, et al. Pain terms: a list with definitions and notes on usage. *Pain*. 1979; 6: 249-252.
- Braus H, Elze C. Anatomie des Menschen. Berlin: Springer; 1960, vol.3.
- Hansen K, Schliack H. Segmentale Innervation. Ihre Bedeutung für Klinik und Praxis. Stuttgart: Thieme; 1962.
- Dittmar F. Die Kutiviscerale Reflexbahn. *Acta Neuroveget*. 1953; 8:183.
- Hobbins WB. Differential diagnosis of pain using thermography. In: E.J. Ring and B. Phillips (Eds.). *Recent advances in medical thermology*. New York/London: Plenum Press; 1984. pp. 503-506.
- Baumann W. Ueber Thermometrische Untersuchungen im Zwölffingerdarm und der Leber und der segmental zugeordneten Dermatomen. *Munch Med Wschr*. 1954; 96: 605.
- Baumann W, Ueckert H. Headse Zonen und Hauttemperatur. *Aertzl Praxis*. 1954; 6: H26
- Mumford J.M., Miles J.B., Thermography and orofacial pain, *Acta Thermografica* 1977; 2 155-161.
- Mumford JM. Thermography and ice cream headache. *Acta Thermografica*. 1979;4: 33-37
- Steketee J. Physical aspects of infrared thermography. In: E.J. Ring and B. Phillips (Eds.). *Recent advances in medical thermology*. New York/London: Plenum Press; 1984. pp.503-506.
- Tebra W. Thermografie met digitale beeldverwerking. *Polytechnisch Tijdschrift/Elektrotechniek/Electronica*. 1981; 36: 152-158
- Newman RI, Seres JL, Miller EB. Liquid crystal thermography in the evaluation of chronic back pain: a comparative study. *Pain*. 1984; 20: 293-305
- Uematsu S, Hendler N, Hungerford D. et al. Thermography and electromyography in the differential diagnosis of chronic pain syndromes and reflex sympathetic dystrophy. *Electromyogr clin Neurophysiol*. 1981; 21: 165-182.
- Hetrick DC, Ciol MA, Rothman I, Turner JA, Frest M, Berger RE. Musculoskeletal dysfunction in men with chronic pelvic pain syndrome type III: a case-control study. *J Urol*. 2003 170(3): 828-831.
- Doggweiler-Wiygul R. Urologic myofascial pain syndromes. *Curr Pain Headache Rep*. 2004; 8(6): 445-451.
- Cornel EB, van Haarst EP, Schaarsberg RW, Geels J. The effect of biofeedback physical therapy in men with Chronic Pelvic Pain Syndrome Type III. *Eur Urol*. 2005 47(5):607-611.
- Shoskes DA, Lee CT, Murphy D, Kefer J, Wood HM. Incidence and significance of prostatic stones in men with chronic prostatitis/chronic pelvic pain syndrome. *Urology*. 2007 70(2):235-238.
- Shoskes DA, Berger R, Elmi A, Landis JR, Probert KJ, Zeitlin S. Muscle tenderness in men with chronic prostatitis/chronic pelvic pain syndrome: the chronic prostatitis cohort study. *J Urol*. 2008; 179(2):556-560.
- Clemens JQ, Markossian T, Calhoun EA. Comparison of economic impact of chronic prostatitis/chronic pelvic pain syndrome and interstitial cystitis/painful bladder syndrome. *Urology* 2009;73(4):743-746.
- Horne AW, Critchley HOD, Doust A, Fehr D, Wilson J, Wu Oea. GaPP: a pilot randomised controlled trial of the efficacy of action of gabapentin for the management of chronic pelvic pain in women: study protocol. *BMJ Open* 2012; 2: e001297.
- Costanza CD, Longstreth GF, Liu AL. Chronic abdominal wall pain: clinical features, health care costs, and long-term outcome. *Clin. Gastroenterol. Hepatol*. 2004; 2: 395-9.
- Grover M. Chronic abdominal wall pain: a missed diagnosis. 2012. Available from: [www.med.unc.edu/ibs/files/educational-gi-andouts/Chronic Ab dominal Pain.pdf](http://www.med.unc.edu/ibs/files/educational-gi-andouts/Chronic%20Abdominal%20Pain.pdf)
- Thomson WH, Dawes RF, Carter SS. Abdominal wall tenderness: a useful sign in chronic abdominal pain. *Br J Surg*. 1991; 78(2):223-225.
- Srinivasan R, Greenbaum DS. Chronic abdominal wall pain: a frequently overlooked problem. Practical approach to diagnosis and management. *Am J Gastroenterol*. 2002 97(4): 824-830.
- Rivero Fernández M, Moreira Vicente V, Riesco López JM, Rodríguez Gandía MA, Garrido Gómez E, Milicua Salameiro JM. Pain originating from the abdominal wall: a forgotten diagnostic option. *Gastroenterol Hepatol*. 2007; 30(4):244-250.
- Lindsetmo RO, Stulberg J. Chronic abdominal wall pain--a diagnostic challenge for the surgeon. *Am J Surg*. 2009 198(1): 129-134.
- Roumen RM, Scheltinga MR. Abdominal intercostal neuralgia: a forgotten cause of abdominal pain. *Ned Tijdschr Geneesk*. 2006; 150(35):1909-15
- Slocumb JC. Neurological factors in chronic pelvic pain: trigger points and the abdominal pelvic pain syndrome. *Am J Obstet Gynecol*. 1984 Jul 1;149(5):536-43.
- Veen van der PHE. Viscerocutaneous reflexes with abdominal wall pain: Study on pregnant women from a general practice in 1981. *Thermology international* 2013, 23(2) 56-63.
- Wernøe Th B. Viszero-Kutane Reflexe. *Pflügers Arch. Physiol*. 1925;210:1
- Schubert R, Haute JVD, Hassenburger J, Beller FK. Directed dynamic cooling: a methodic contribution in telethermography. *Acta Thermografica*. 1977; 2: 94-99.
- Arendt-Nielsen L. Viscero-somatic reflexes in referred pain areas evoked by capsaicin: stimulation of the human gut. 2008; 12:544-551.

Adress for correspondence

PHE van der Veen

Onyx 13

1703 CD Heerhugowaard

The Netherlands

Email: henk@chronic-pain-science.nl

(Received 30.3.2013, accepted on 20.6.2013)

Thermology 2012 - a computer-assisted literature survey

Kurt Ammer

European Association of Thermology, Vienna, Austria
Medical Imaging Research Unit, Faculty of Advanced Technology, University of South Wales, Pontypridd, UK

SUMMARY

The literature survey 2012 is based on 1426 papers found in the databases MEDLINE and EMBASE with the keywords "thermography" or "thermometry" "temperature measurement" or "thermotherapy" or 'skin temperature' or 'core temperature' and restricted to "human" and "included in the databases between 01.01 and 31.12. 2012". 37.9 percent of papers of this review are originated from Europe and 95.3 percent of all papers are written in English. 238 controlled studies using some kind of temperature measurement were included in this survey. Pharmacology, Internal Medicine, Internal Medicine, Cancer and Neurology & Psychiatry were the predominant fields of applications of temperature measurement in medicine. As in previous years, therapeutic hypothermia and hyperthermia treatment was the topic of many papers. Fever attracted also a high number of publications. Although the term "breast cancer" appeared in 77 publications, only minority of those were related to breast thermography. Some articles were found for the complex regional pain syndrome and Raynaud's phenomenon.

KEY WORDS: Thermography, literature search, temperature measurement

THERMOLOGIE 2012 – EINE COMPUTER-GESTÜTZTE LITERATURSUCHE

Die Literatursuche für 2012 basiert auf 1426 Arbeiten, die unter den Schlüsselwörtern "Thermographie" oder "Thermometrie" oder "Temperaturmessung" oder "Thermotherapie" oder "Hauttemperatur" oder "Kerntemperatur" und den Einschränkungen "Mensch" und "zwischen 1. Jänner und 31. Dezember 2012 erfasst" in den Datenbanken MEDLINE und EMBASE gefunden wurden. Die Autoren thermologischer Publikationen kommen in 37,9 Prozent aus Europa, und 95,3 Prozent aller Arbeiten wurden in Englisch publiziert. 238 kontrollierte Studien, die irgendeine Form von Temperaturmessung einsetzten, wurden in diese Übersicht aufgenommen. Pharmakologie, Innere Medizin, Krebserkrankungen und Neurologie & Psychiatrie waren die vorherrschenden Anwendungsgebiete für Temperaturmessung in der Medizin. Wie in früheren Literaturübersichten, war die therapeutische Hypothermie und die Behandlung mit Hyperthermie das Thema vieler Veröffentlichungen. Auch Fieber erzielte eine große Zahl von Publikationen. Obwohl der Begriff "Brust" in 77 Publikationen erwähnt wurde, berichtete nur eine Minorität davon über Brustthermographie. Einige Publikationen wurden zum komplexen regionalen Schmerzsyndrom (CRPS) und über das Raynaud-Phänomen gefunden und neue Anwendungen der medizinischen Thermographie wurden berichtet..

SCHLÜSSELWÖRTER: Thermographie, Literatursuche, Temperaturmessung

Thermology international 2013, 23(3) 93-141

Introduction

This year's annual survey is the 25th in a series that started in 1989. The aim of this regular annual publication is to survey the publications of 2012 related to thermography and temperature measurements in medicine.

Methods

A search in EMBASE and MEDLINE with the terms "thermology" or "thermography" or "thermometry" or "temperature measurement" or "thermotherapy" or "skin temperature" or "core temperature" and "year 2012" yielded 2835 hits. Table 1 shows the contribution of each search term to the results. Exchanging "year 2012" with "included between 01-01-2012 and 31-12-2012" reduced the number of hits to 2371. Further restriction with the term "human" yielded a further reduction to 1426 hits.

All 1426 hits will appear in the section "References" of this survey. However, the full list of 2371 references will be included in the reference collection of "Published papers on THERMOLOGY or TEMPERATURE MEASUREMENT between 2011 and 2012". This will become volume 4 of a collection of references related to thermology spanning the period from 1989 to 2012. They will be available from the webpage of Thermology international at "www.uhlen.at/

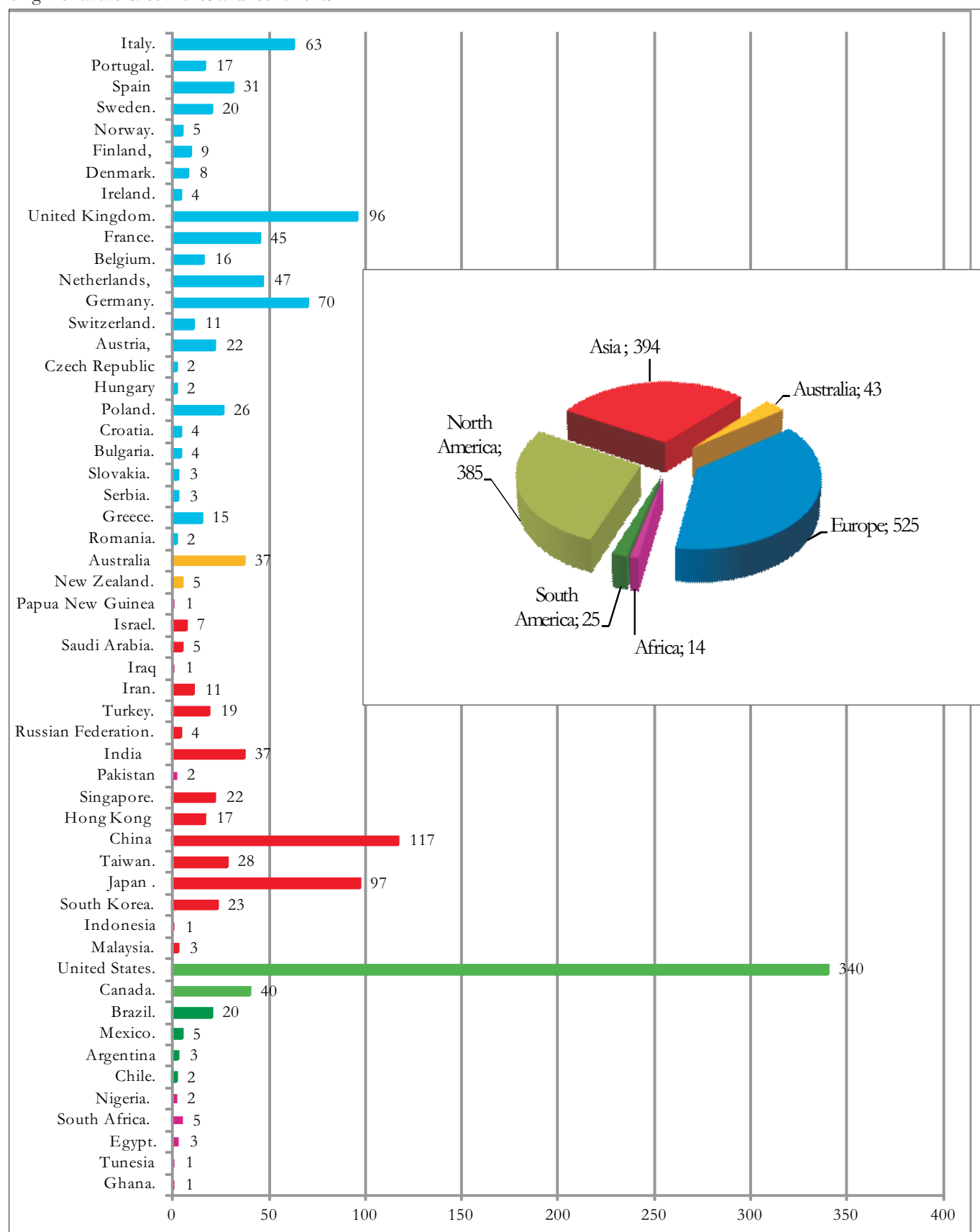
Table 1
Search terms and results

Combination of search terms	Hits
Thermology AND "year 2012"]	101
thermology OR thermography AND "year 2012"	403
thermology OR thermography OR thermometry AND "year2012"	414
thermology OR thermography OR thermometry OR "temperature measurement" AND "year 2012"	1419
thermology OR thermography OR thermometry OR "temperature measurement" OR thermotherapy AND "year 2012"	2116
thermology OR thermography OR thermometry OR "temperature measurement" OR thermotherapy OR "skin temperature" AND "year 2012"	2456
thermology OR thermography OR thermometry OR "temperature measurement" OR thermotherapy OR "skin temperature" OR "core temperature" AND "year-2012"	2835
thermology OR thermography OR thermometry OR "temperature measurement" OR thermotherapy OR "skin temperature" OR "core temperature" AND "included between 1-1-2012 and 31-12-2012!"	2371
thermology OR thermography OR thermometry OR "temperature measurement" OR thermotherapy OR "skin temperature" OR "core temperature" AND "included between 1-1-2012 and 31-12-2012" AND "restricted to humans"	1426

Thermology international/ Publications on thermology and temperature measurement/ Volume 4". Volumes 1-3 of this reference collection can be accessed free of charge "www.uhlen.at/ Thermology international/ Archives.

The papers were analysed to show the origin of authors, the language, and the journal and issue number of publication. For further classification, the Citation Report Database at Thompson Institute for Scientific Information

Figure 1
Origin of authors: countries and continents



(ISI) was searched to obtain the most recent Impact Factor for journals publishing papers related to the search profile in 2012. If a journal was not listed in ISI, the two years citation index, published by ScImago, was used instead.

Papers were allocated with respect to the topic of the publication. The filter option of EMBASE was used to differentiate the papers by focus of paper, disease, publication type and study type

Results

2374 publications were obtained with the search profile. Restriction to humans yielded 1426 hits of which 1326 publications were located in EMBASE and 102 in MEDLINE. 672 papers were listed in both databases.

Language of publication

All but 67 papers of this database were published in English (95.31%). 26 publications appeared in Chinese (1.82%), 15 papers were published in German (1.05%) and 10 in Spanish (0.70%). 6 papers each were written in French (0.42%) or Turkish (0.42%). The language in 4 papers each was Japanese (0.28%) or Russian (0.28%). 2 papers were written in Polish (0.14%), Portuguese (0.14%) or Croatian (0.14%). Bulgarian, Dutch, Serbian Slovak, Swedish and Thai were the publication language in 1 paper (0.07% each).

16 publications appeared in two languages, English plus Chinese (2 papers) Croatian (1 paper), French (1 paper), Polish (1 paper), Portuguese (2 papers), Serbian (1 paper) Slovak (1 paper), Spanish (1 paper), Thai (1 paper) and Turkish (5 papers).

201 publications did not provide a summary. All of the remaining 1227 papers showed an abstract of the article in English. 31 articles were published with an additional summary in Chinese, 21 papers with an additional abstract in German. Abstracts in Spanish were provided in 10 papers and in French in 9 articles. 6 papers appeared with a summary in Turkish. 2 papers each published abstracts in Italian, Japanese Polish or Thai. Bulgarian, Croatian, Serbian or Slovak was the language of the additional abstract of 1 paper each.

Authors

In total, 5892 authors appeared in 1426 publications. Prof Dr Joaquim Gabriel from the University of Porto, Faculty of Engineering appeared as co-author in 12 papers [1-12]. Liang P was found 11 times as corresponding author or co-author [13-23] Han Z-Y 9 times as co author [13-15, 17-21, 24]. Both latter authors work in the Department of Interventional Ultrasound, Chinese People's Liberation Army General Hospital in Beijing, China. P. H. Sugarmaker was author or co-author in 9 publications. X Li, E.F.J. Ring and A.A Silva published each 8 papers, Z.-G. Cheng, E.A. Levine, J.S Petrofsky and J.Yu authored each 7 papers and K.Ammer, X Liu, R. Vardasca, L Wang, X. Wang and X.L.Yu appeared as authors of 6 publications. J. Allen, L. Berk, M.D. Fischer, J Li, P. Piso, E Schmutzhard, M Sillero-Quintana, J Wang, S.Wang and X. Yu authored each 5 papers. The names of 30 authors appeared in 4 papers and of 87 authors in 3 papers.

Research was performed in 1475 institutions located in 54 countries. 27.78.% of these were situated in North America, the majority, i. e. 340, in the United States, 40 in Canada and 5 in Mexico. 37.88 % of authors came from European countries, 96 of these work in the United Kingdom, 70 in Germany, 63 in Italy and 45 in France. 28.43% of authors are from Asia, 117 of these live in China (figure 1).

Journals

In total, 751 journals published papers related to the search profile. 16 journals published 80 to 8 papers related to topic of this survey. 80 publications were found in "Thermology international". Next in rank were "PLOS One" and the "International Journal of Hyperthermia" with 23 papers each. Table 2 lists the journal name, the number of papers of interest and the impact factor 2012. A mean impact factors of 2,620 was calculated for the 16 journals listed. The mean impact was derived from the cumulated impact factor of all 16 journals.

Type of publication

726 papers were classified as articles, 13 as article in press and 233 as review. 6 short surveys, 327 conference abstracts and 11 full length conference papers have been published. The remaining papers were classified as 60 letters, 24 notes, 21 editorials and 3 conference reviews.

Type of study

All 1426 papers have been related to humans. 117 reported findings in normal humans and 71 human experiments. 63 investigations conducted research on human cells and 44 on human tissue. 141 clinical articles and 131 case reports

Table 2
Journals that published more than 8 articles related to thermology in 2012

Journal	papers	Impact factor
Journal of Urology	8	3,696
Radiology	8	6,339
International Journal of Nanomedicine	10	3,463
Journal of Surgical Oncology	10	2,664
CardioVascular and Interventional Radiology	11	2,138
Journal of Thermal Biology	11	1,376
Surgical Oncology Clinics of North Amea	12	1,222
British Journal of Anaesthesia	13	4,237
HPB	13	1,939
Journal of Vascular and Interventional Radiology	14	2,002
Journal of Sleep Research	16	3,043
Critical Care	18	4,718
FASEB Journal	19	5,704
International Journal of Hyperthermia	24	2,591
PLoS ONE	24	3,730
Thermology international	80	0,818*

* ScImago two years citation index 2011

have been published. 66 randomized controlled trials and 151 major clinical studies have been reported. A controlled study was the theme in 283 papers, 60 prospective studies and 48 retrospective studies have been published.

128 papers were classified as non human studies, 101 publications reported models, 33 of these investigated animal models. 51 in vitro studies and 30 in vivo studies have been published.

Table 3
Papers allocated to medical fields

Medical field	Reference	Total number of allocated papers
Biochemistry	25-143	119
Cancer	13,14, 17,20-24, 144-394	300
Dermatology and Venerology	395-449	72
Genetics	450-453	16
Geriatrics and Gerontology	454-459	9
Internal medicine	460-622	341
Immunology and Haematology	623-652	70
Microbiology	653-667	42
Medical instrumentation	668-720	133
Neurology and Psychiatry	721-830	176
Obstetrics and Gynecology	831-850	56
Ophthalmology	851-863	39
Otorhinolaryngology	864-866	20
Paediatrics	867-888	85
Pathology and Forensic Science	889-900	51
Pharmacology and Pharmacy	901-929	488
Physiology and Endocrinology	18, 930-964	84
Public Health	965-980	143
Radiology and Nuclear Medicine	981-984	144
Rehabilitation	985-987	27
Surgery	988-993	136
Toxicology and Drug Dependence	994-996	12
Papers not allocated to a field	1-12,15, 16,, 997-1426	445
Fever	13, 17, 20, 27, 34, 71, 101, 176, 207, 223, 244, 247, 270, 271, 284, 301, 301, 346, 365, 370, 403, 421, 455, 459, 463, 470, 471, 471, 499, 503, 504, 516, 556, 557, 564, 569, 578, 597, 606, 620, 627, 637, 640, 656, 658, 660, 663, 727, 734, 777, 809, 817, 822, 843, 850, 871, 880, 892, 895, 900, 924, 995, 997, 1021, 1042, 1043, 1047, 1068, 1112, 1118, 1126, 1133, 1165, 1183, 1187, 1207, 1245, 1248, 1253, 1255, 1264, 1304, 1305, 1306, 1313, 1329, 1335, 1350, 1354, 1368	91
Hypothermia, local & general	1,32,119,475,478,500,507,512,519,523,583,592,643, 645, 647, 667, 690, 702,706,731,741,821,835, 848, 875, 905,907,910, 911,962,966,993, 989, 935, 1006, 1007, 1042, 1067, 1092, 1095,1115,1116, 1188, 1192, 1194, 1196, 1201,1227, 1245,1279,1280,1281, 1292, 1293, 1295, 1311, 1327, 1329, 1330, 1350, 1365, 1378, 1379, 1393, 1406, 1407, 1427, 1428,1429	84
Hyperthermia; local & general	27, 159, 193, 202, 211, 233, 244, 301, 311, 390, 446, 481, 667, 677, 713, 730, 777, 785, 793, 794, 806, 897, 903, 916, 932, 946, 962, 994, 997, 1043, 1050, 1062, 1083, 1092, 1112, 1114, 1144, 1184, 1201, 1215, 1225, 1228, 1264, 1287, 1307, 1329, 1364, 1394, 1417	49
Breast or Breast Cancer	37,115,139, 155, 226, 268,324,353,1172 145,202, 216,245,248, 256, 264,320, 1016,1202,1251,1426	77
Complex regional pain syndrome (CRPS)	27, 126,397,625,641,728, 729, 783, 786,787,823, 1052,1072, 1205, 1265, 1304, 1307, 1371	19
Raynaud's phenomenon	425,428,469, 480, 549, 612, 639,893, 1005, 1009, 1150, 1304, 1312, 139	16

Medical publications

The citations in MEDLINE and EMBASE are allocated to distinct fields of medicine. Usually, allocations to more than just one field are made. Table 3 shows in column 3 the total of references allocated to one field, whilst column 2 lists the reference numbers remained after exclusion of multiple allocations. Table 3 shows the allocations to fields of medicine. Pharmacology and Pharmacy was the most

frequent allocated speciality of medicine. Internal Medicine, Cancer and Neurology & Psychiatry were the next in frequency of allocation, followed Radiology & Nuclear Medicine, Public Health, Surgery, Medical instrumentation and Biochemistry. 445 paper publications were not allocated to a field. Some papers were found for Breast Disease, Complex Regional Pain Syndrome and Raynaud's Phenomenon.

The EMBASE filter "disease" obtained the following distributions (number of papers in brackets): fever (91), hypothermia (84), pain (66), hyperthermia (49), inflammation (48), bleeding (47), breast cancer (47), cancer recurrence (46), liver cell carcinoma (46), side effect (46), injury (44), colorectal cancer (42), neoplasm (42), heart arrest (40), postoperative complication (38), infection (35), diseases (33), metastasis (33), ovary cancer (33), shivering (33), advanced cancer (32), liver metastasis (29), carcinomatous peritonitis (27), hypertension (27) and nausea (27).

CRPS

Complex regional pain syndrome (CRPS) was the topic or keyword of 18 papers, 5 conference abstracts [1052, 1072, 1205, 1265, 1307], two case reports [397, 1371], two observational studies [728, 787], one note [783] one editorial [729], two clinical articles [786, 823] and five reviews [27, 126, 625, 641, 1304].

A clinical article from Germany stated, that "a classification by the initial skin temperature (primary warm or primary cold CRPS) seems more appropriate than the classification as type I or II, depending on the absence or presence of a nerve lesion" [786]. Based on the data from a multicenter study from South Korea, which was presented at the 6th World Congress of the World Institute of Pain in Miami Beach, FL, United States, the course of skin temperature varies a lot over time, for example the affected limb stayed hot for 12 months in approximately 10% of investigated patients [1265]. A note in the journal "Pain" expressed the need of objective measurements of physiological signs related to CRPS and proposed techniques of thermometry for the assessment of vasomotor abnormalities.

A prospective observational study, conducted in the Netherlands correlated response to sympathetic blockade in complex regional pain syndrome type 1 with skin temperature and sensory changes. The response rate was not different in patient groups with cold or warm type CRPS-1 or in those with more or less than 1.5°C differential increase in skin temperature after sympathetic blockade [728]. A series of patients with CRPS I, located on the upper extremity, responded in an uncontrolled observational study favourably to treatment with anti-inflammatory drugs and selected physical therapy modalities resulting in complete recovery in 32 out of 36 patients [787]. A case of an 8 years old haemophilic boy with CRPS located in the left ankle region, reported complete recovery to normal activities of daily life after 6 weeks of treatment with physical therapy [1371]. A paper reviewing effective medical and psychological treatment approaches and current trends in rehabilitation for patients with CRPS, mentioned that thermography has low specificity for diagnosis and prognosis [126].

A case report of a patient after herpes zoster infection based their diagnosis of CRPS I of the nasal area on a hypothermic area detected by thermography [397, 1205]. A presentation at the 12th European Conference of Thermology reported four indices derived from functional infrared imaging which support the identification of the actual stage of CRPS [1072]. Another conference abstract stated that thermography is a useful tool for assisting the diagnosis and monitoring treatment of CRPS patients [1307].

A review on the temperature of the human knee included data from patients with CRPS of the knee [625]. A paper from Germany reviewed the impact of elevated pro-inflammatory cytokines, increased neurogenic inflammation and auto-antibodies in the pathophysiology CRPS [641]. Last year's annual literature report on published papers on thermology and temperature measurement showed also a section on CRPS [27].

Raynaud's phenomenon

16 papers were found with the key word "Raynaud's phenomenon" 1 review [401] and 1 case report [403] were not relevant for the search profile.

1 review from Poland discussed the mode of action of physical therapy in angiopathies such as Raynaud's phenomenon [469], and another from Bulgaria the value of thermography in rheumatic diseases in which Raynaud's phenomenon was included [639]. A review on pathogenesis, diagnosis and treatment of Raynaud phenomenon mentioned thermal imaging as a technique that helps to differentiate primary Raynaud phenomenon from Systemic Sclerosis-related disease [893]. A highly accessed review, published in "Physiological Measurement", classified the detection of Raynaud's phenomenon with infrared thermal imaging as established method for vasospastic disease of finger arteries [1304].

A case report described the use of thermal imaging to monitor the effect of thoracic sympathectomy [480]. A study investigating blood pressure electrocardiographic parameters such as QT-QTc intervals during stellate ganglion block in patients with primary Raynaud's phenomenon monitored skin temperatures of both middle fingers with thermistors, but did not report any temperature measurements [612]. Three conference abstracts from the 12th European Conference of Thermology were related to Raynaud's phenomenon [1005, 1150, 1396]. 1 abstract reported the development of a clinical vascular optics measurement facility, where Connective Tissue Disease and Raynaud's phenomenon assessments, Specialist, Limb studies (i.e. amputation level, muscle compartment perfusion and venous physiology), Neurovascular Assessment and Burn Depth Assessment were performed [1005]. Another conference abstract investigated the application of a portable, low cost thermal imager for the assessment of finger temperature after hand cold challenge and found the device feasible in differentiation of vasospastic from non-vasospastic subjects, as long as standard procedures are strictly followed [1150]. An abstract from Japan evaluated the sympathetic blocking effect of phototherapy near the neck stellate ganglion, a potential treatment for Raynaud's phenomenon, by means of thermography [1396]. A paper,

presented at the 16th Conference of the Polish Association of Thermology, reported the daily variation of the longitudinal temperature gradient from the dorsal hand to the fingertip for a period of two to three weeks in 2 male and 1 female subjects. The author showed a large range of temperature variation from one day to the next, which may also vary at different time points of the same day [1009].

In a randomised controlled study, the average time to recover 50% and 70% of pre-challenge skin temperature was used as outcome measure for evaluating the efficacy of fasudil, a RhoA/Rho kinase inhibitor, to reverse cold-induced vasospasm in patients with Raynaud's phenomenon secondary to systemic sclerosis [549]. A systematic review from Bath, UK, reported the use of infrared thermography as an endpoint in therapeutic trials of Raynaud's phenomenon and systemic sclerosis. Thirty-two studies evaluating 654 patients with RP were assessed. Thermographic parameters showed agreement with clinical endpoints in therapeutic trials. [428]. Single oral dosages of 50 mg or 100 mg sildenafil increased resting skin temperature and resting skin blood flux in patients with primary Raynaud's phenomenon. Sildenafil at 100 mg, but not 50 mg, significantly reduced the 15°C local cooling induced decrease in skin blood flux compared to control [425, 1312].

Breast cancer

Out of 77 hits labelled with the key words "breast" or "breast cancer", only 21 papers were dedicated to either thermal imaging [145,202, 216, 245,248, 256, 264,320, 1016,1202,1251,1426] or thermotherapy [37,115,139, 155, 226, 268,324,353,1172].

A sequence of 300 thermal images recorded immediately after cooling at the frame rate of 2 frames per second from cancerous and unaffected breast for 15 seconds, obtained longer temperature recovery times to baseline readings over cancerous tissue than in normal, unaffected tissue. These unexpected findings of high time constants must be confirmed in a large sample of breast cancer patients [256]. Chinese authors combined ultrasound imaging with thermal imaging for breast cancer detection and reported a diagnostic sensitivity of 95.35% and a diagnostic accuracy of 86.84% for the combined technique [264]. A study from Singapore used texture features from thermal images to generate an automatic system to diagnose breast cancer. A diagnostic sensitivity of 85.7% and specificity of 90.5% was achieved [145]. One extended abstract reviewed the role of infrared thermal imaging in breast reconstruction, particularly its use for detecting perforating blood vessels appropriate to nourish the tissue flaps used for breast reconstruction [1251]. A conference abstract reported a pilot study in which digital infrared thermal imaging was applied for the detection of axillary lymph node metastases [1016].

A systematic review from New Zealand did not find sufficient evidence to support the use of thermography in breast cancer screening or that thermography provides benefit to patients as an adjunctive tool to mammography or to suspicious clinical findings in diagnosing breast cancer [1202]. This review, accompanied with an editorial

[320], triggered a letter discussion between a retired general practitioner, who obviously believes in medical experience based on anecdotal cases [216] and the authors [202]. Another controversial discussion was conducted in the journal "Clinical Radiology". Authors from Zagreb, Croatia, criticized the conclusions drawn in British study on the value of breast thermography [245], which was included in the list of references of last year's literature review [27]. In their response the authors argued against the criticism of poor methodology that they have strictly followed the protocol of the manufacturer and pointed to difference between a clinical investigation and an animal study [248].

Japanese authors reported the case of 66 years old woman with local recurrence of breast cancer which was resistant to local radiotherapy plus chemotherapy. After adding hyperthermic treatment, a favourable outcome was achieved [139]. In another case report of 70 years old woman with skin metastasis due to breast cancer, cryo-surgery combined with hyperthermia resulted in reduction of the metastatic tumour. A group from the US showed that heat induced radiosensitisation is maximised if hyperthermia and radiotherapy are given simultaneously, with the radiation fraction delivered midway through a hyperthermia session. In 57 patients with locally advanced breast cancer, who received between four and eight sessions of simultaneous thermo-radiotherapy, two local and two nodal recurrences were observed within an average follow-up of 79 months [353]. A Dutch study reported high tolerance and clinical effectiveness of re-irradiation and hyperthermia in breast cancer patients with reconstructions [368]. A systematic review on radiation induced sarcoma of the breast mentioned hyperthermic treatment for this kind of tumour [324].

Ferromagnetic nanoparticles incorporated in human breast cancer cells (MCF-7) showed a higher heating efficiency than the superparamagnetic nanoparticles when exposed to an external magnetic field and death of cancer cells with high nanoparticle content was achieved [155]. Hyperthermic treatment based on gold-nanoparticles heated with near-infrared showed a deleterious effect on cancer cells in tissue cultures and animal experiments [115]. A study from US clearly demonstrated on cell cultures and animal experiments, that so-called breast cancer stem cells - which are assumed to initiate and promote tumour growth - are resistant against conventional hyperthermic treatment and become enriched in the surviving cell population cells following treatment. In contrast, these cells are sensitive to nanoparticle-mediated thermal treatment and lose their long-term proliferative capacity after nanoparticle-mediated thermal therapy [37]. A conference abstract reported the extent of thermal ablation of breast cancer tissue *ex vivo* induced by the use of laser-fibers at different power levels and exposure time [1172].

Hypothermia

An animal experiment supported the hypothesis that the transient receptor potential vanilloid 1 (TRPV1) ion channel has a role in hypoxia induced fall of core temperature [962]. Sarcolectin, a newly identified regulator of the sarcoplasmic reticulum Ca^{2+} -ATPase (Serca) pump, is necessary for muscle-based thermogenesis under cold

conditions. Sarcolemmal deficient mice have been unable to maintain their core temperature and died of hypothermia when exposed to a room temperature of 4°C for 10 hours [32].

Contractility of human colonic circular muscle strips increased in mean contractile amplitude by 20 and 19% at 36°C and 35 °C respectively, compared to 37 °C mean percentage of contraction. Response to acetylcholine was 40% at 36°C and 46% at 35°C compared to baseline response. After resetting the temperature to baseline value (37°C), the mean percentage of contraction and Acetylcholine response remained higher during the entire 30-min period of observation [1006, 1007].

In a swine model of brain injury, reflex hyperthermia occurred during the re-warming phase following prolonged hypothermia. In the recovery phase, maximum core temperature was $39.75 \pm 0.54^\circ\text{C}$ in previous hypothermic animals, which was significantly higher than $38.21 \pm 0.38^\circ\text{C}$ in normothermic control animals [1201]. An animal study in mice showed that tail temperature decreased but nose temperature did not decrease significantly during ketamine anaesthesia [1]. In a piglet experiment, intravenous doses of melatonin $>5 \text{ mg/kg}$ lead to hypotension following a hypoxic-ischaemic insult when combined with hypothermia [1188]. Induction of brief mild hypothermia increased but did not significantly prolong survival in a resuscitated rat model of large scald burns [1365].

Cooling of head and neck with a device kept at 4°C for 120 minutes, resulted in different changes of temperature at the forehead, tympanum and rectum (Table 4). Systolic and diastolic blood pressure increased immediately on cooling onset and rose by $15.3 \pm 20.8 \text{ mm Hg}$ and $16.5 \pm 13.4 \text{ mm Hg}$ after 120 minutes. Skin blood flow decreased significantly during cooling [519].

In a boating accident all 15 persons fell overboard and were immersed in 2 °C salt water, 1 man drowned, 5 male, and 2 female adolescents developed cardiac arrest due to hypothermia (mean core temperature: 18.4 , range 15.5 to 20.2°C). 7 people - 1 male adolescent, 5 female adolescents, 1 young female adult - showed spontaneous circulation with a mean core temperature of 28.0 (range: 23.0 - 37.5)°C. The victims that survived the accident without circulatory arrest were predominantly females and had a higher body mass index [512]. Respiratory failure and spontaneous hypoglycemia during noninvasive re-warming from 24.7°C core body

temperature after prolonged avalanche burial was reported in 42 old, previously healthy male backcountry skier [119]. Infrared Thermography was found useful for the detection of hypothermia in subjects at high altitude [1379]. A review published in the New England Journal of Medicine provided information on patient's presentation, diagnosis, pre-hospital treatment, transport, rescue collapse and after-drop, in hospital treatment, modified versus standard advanced life support, serum potassium, outcome and accidental hypothermia in special situations such as trauma, avalanche burial without vital signs or drowning without vital signs [1428].

Hypothermia was prevented in sports students who wore gloves, a T-shirt and shorts and walked at 70% VO_2max for 1 hour in a climate chamber at 0°C ambient temperature and wind speed of 10 km/h. If the walking speed was reduced to 30% VO_2max additional clothing such as a cap, a windbreaker jacket and pants were necessary to prevent hypothermia [935]. Divers who suffer from spinal cord injury are in danger of hypothermia. A tetraplegic diver reduced his core temperature after 1 hour in pool water of 27.7°C by 3.0°C while the decrease of deep body temperature of a non impaired diver with similar body habitus was approximately 0.8°C [1116]. A conference abstract reported a study from Germany investigating the effects of different water temperatures (33°C , 36°C , and 39°C) on peripheral and core body temperature [1092]. Local hypothermia of the feet was detected by infrared thermography in an athlete whose feet were exposed to low environmental temperature during running [966].

Pre-hospital hypothermia was diagnosed in 44.6% of 21023 patients included between 2005 and 2009 into the Los Angeles County Trauma System Database. Hypothermic patients with increased transfusion and fluid requirement had subsequently worse outcomes [478]. Treatment with recombinant factor VIIa lead to survival in 31% of 45 trauma patients presented with the "triad of death" i.e. Coagulopathy, acidosis and hypothermia. Core temperature prior to factor VIIa therapy was $33.8 \pm 0.7^\circ\text{C}$ in survivors and $33.3 \pm 0.9^\circ\text{C}$ in non survivors [645]. A prognostic study from San Francisco, California confirmed that acidosis, hypothermia, coagulopathy or relative thrombocytopenia predicts hyperfibrinolysis with 100% sensitivity and 55.4% specificity [643]. At 32°C core temperature, mean platelet aggregation was mildly reduced to $93 \pm 25\%$ of baseline function at 37°C . Reduction of body core temperature to

Table 4
Temperature at the forehead, tympanum and rectum during head and neck cooling [519]

	forehead skin temperature	tympanic temperature	rectal temperature
Baseline	$37.3 \pm 0.3^\circ\text{C}$	$36.6 \pm 0.7^\circ\text{C}$	$36.7 \pm .4^\circ\text{C}$
immediately after cooling onset	$31.8 \pm 2.2^\circ\text{C}$	$34.9 \pm 1.2^\circ\text{C}$	
20 minutes	$24.9 \pm 3.2^\circ\text{C}$		
40 minutes		$31.8 \pm 1.2^\circ\text{C}$	
60 minutes	$28.5 \pm 3.5^\circ\text{C}$	$32.1 \pm 1.1^\circ\text{C}$	$36.5 \pm 0.3^\circ\text{C}$
120 minutes	$34.1 \pm 2.4^\circ\text{C}$	$33.3 \pm 1.0^\circ\text{C}$	$36.4 \pm 0.3^\circ\text{C}$

28° C or below resulted in a decline of platelet aggregation as low as $23 \pm 12\%$. Impaired platelet function to $75 \pm 28\%$ aggregation was detected immediately after blood re-warming to 36°C [1280]. Ventricular fibrillations in a patient with infero-lateral early depolarization syndrome have been suspected to be caused by repeated episodes of hypothermia [1245].

186 out of 573 patients admitted to the intensive care unit at Southampton University Hospital, United Kingdom, had at least one incident of inadvertent hypothermia during a 6 month period [1406]. A study from Chile reported that the incidence of hypothermia was 2,7% in a cohort of 73 patients who underwent hip arthroscopy [647]. The latter paper started a small discussion about methods to avoid hypothermia during hip arthroscopy [989,1427]. A study from Brazil reported that obese female patients have higher peri-operative core temperature and a lower incidence of hypothermia compared with non-obese female patients during abdominal surgery with active forced-air warming [907]. A drop in core temperature was reported in preterm infants undergoing laparotomy for necrotizing enterocolitis. Mean postoperative core temperature was 34.9°C [range:31.5-37.0] compared to 37.0° C (range: 35.8-38.0) prior to surgery [592].

A study from India reported no significant difference in the decrease of core temperature caused by the use of propofol or sevoflurane for general anaesthesia in patients undergoing transsphenoidal pituitary surgery [731]. Under sub-arachnoid anaesthesia, deflation of a pneumatic lower limb tourniquet did not result in a decrease of core temperature [1067] which was reported after tourniquet release under general or epidural anaesthesia. In contrary to these results, a study from South Korea reported decrease of body core temperature after deflation of the tourniquet in knee surgery. The reduction of body temperature was closely related to the duration of tourniquet inflation [905].

A review article on monitoring the postoperative period addressed hypothermia as one of the related challenges [507]. Another paper stated that hypothermia is a major cause of perinatal mortality [875]. A poster presentation at the Annual Congress 2012 of Royal College of Anaesthetists showed that adding temperature control to the World Health Organization surgical checklist 3 reduced the occurrence of postoperative hypothermia better than sole staff training [1279]. A CME (continuous medical education)- article reviewed publications on available methods for reduction of maternal and neonatal hypothermia during cesarean delivery [848]. Some papers were related to the prevention of hypothermia during surgery including pre-operative warming [911], covering children with cotton blankets and a warm forced-air blanket set at 43°C [1406], using either warmed intravenous fluid or forced air-warming prior to cesarean section under spinal anesthesia [835]. A systematic review reported the effectiveness of different active cutaneous warming systems to prevent intra- operative hypothermia [1295]. Intraperitoneal nebulization of ropivacaine prevented body core temperature reduction during laparoscopic surgery [1227]. The combination of good thermal insulation and conductive war-

ming prevented effectively peri-operative hypothermia during head and neck surgery [706]. Local insufflations of warm fully humidified CO₂ in an open surgical wound cavity increased the temperature of the surgical wound and prevented hypothermia better than conventional preventative techniques of peri-operative heat loss [475]. An American plastic surgeon criticized a publication of poor methodology [993]. The criticized authors compared the effect of warming methods during plastic surgery on patients comfort and complication rates to a historical control group, but as core temperatures were not measured in either group [1429].

Abnormal core temperature (hypothermia <36°C or hyperthermia >38,5°C) is one of two mandatory findings of the systemic inflammatory response syndrome and body temperature can be used to screen for sepsis of children in developing countries [667]. "ThermoSpots" are adhesive 12 mm stickers with liquid crystal compound embedded in the upper surface. These technology was used to detect successfully hypothermia in children with severe acute malnutrition, who were treated at the malnutrition ward of Queen Elizabeth Central Hospital, Blantyre, Malawi [702].

In newborn infants, therapeutic hypothermia reduced peripheral microcirculation which resolved totally after re-establishing normal core temperature [1095]. Hypothermia may occur as complication of cerebral magnetic resonance imaging in preterm infants at gestational age term-equivalent to 30 weeks [741].

In patients after cardiac arrest treated with mild therapeutic hypothermia, in-hospital mortality was significantly lower than in a historic control group without hypothermic treatment [1293]. Japanese authors reported potential benefits of hypothermia in comatose survivors of out-of-hospital cardiac arrest due to aneurysmal subarachnoid haemorrhage [1192]. 55 (64.7%) out of 85 initially comatose patients treated with therapeutic-induced mild hypothermia due to out-of-hospital cardiac arrest were either working full-time and independent of any social welfare or were unemployed, but able to work 1 year after the cardiovascular accident [1196].

German surgeons reported retrospectively the results of aortic arch reconstruction under mild hypothermia and antegrad cerebral perfusion in 426 patients [500]. Mild hypothermia achieved by intravascular cooling as compared to surface cooling resulted in a more rapid induction (100 vs 436 minutes) of target core temperature [1407]. Age, initial heart rhythm, duration of hospitalization and hypothermia associated complications were identified as the most important predictors of good clinical outcome in a group of 274 hypothermia-treated patients after survived cardiac arrest [1292]. A Dutch study reported that persistent abnormalities in sublingual micro-circulation and peripheral tissue perfusion were associated with organ failure and death in a group of 25 patients after out-of-hospital cardiac arrest treated with therapeutic hypothermia [523]. A conference abstract failed to demonstrate any significant short-term or long-term benefit for rectal cooling during robotic-assisted radical prostatectomy [1393]. Mild hypothermia decreased intracranial pressure and increased

cerebral perfusion pressure regardless to the type of brain injury. Therapeutic hypothermia did not able to improve the clinical outcome in patients with primary brain lesions, but significantly improved the outcome in patients with extracerebral haematomas [1115]. Possible limitations in performance of humidifiers was addressed in a review paper [583].

In newborn infants with hypoxic-ischemic encephalopathy target temperature of 33.5°C for therapeutic hypothermia was easily achieved by cooling with gel-pack and servo-controlled with a radiant warmer [690]. Therapeutic hypothermia is predominately monitored by oesophageal temperature probes. A study from Korea investigated the success rates and procedure time of different methods of insertion of the temperature device. The authors reported higher success rates on the first attempt and shorter procedure time with a novel procedure than with the conventional method [1281]. A letter reported two patients under therapeutic hypothermia in whom heat transfer from warmed tracheal tubes to oesophageal temperature probes resulted in overestimation of core temperature [821]. A study from Germany investigated the correlation, accuracy, precision and practicability of peri-operative measurement of sublingual temperature in comparison with tympanic membrane temperature in awake and anaesthetised patients. Sublingual temperatures were higher than tympanic temperatures by 0.1-0.2°C. The 95% limits of agreement between the two temperature measurements were in the range of -0.63 to 0.32 preoperatively, -0.51 to 0.32 intra-operatively and -0.55 to 0.37 postoperatively [910].

The open access journal "Critical Care published a supplement with extended abstracts of a conference on "Update on Therapeutic Temperature Management". Various contributions were related to different aspects of hypothermia [1042, 1194, 1311, 1327, 1329, 1330, 1350, 1378].

Hyperthermia

Some papers reported physiological alterations caused by hyperthermia. Cutaneous vascular conductance defined as laser-Doppler velocimetry output in arbitrary perfusion units divided by mean arterial pressure and expressed as percentage of maximum, was altered only under high heat stress by postexercise ischemia and concurrent application of lower body positive pressure or lower body negative pressure challenges. The sustained elevations in sweat rate typically associated with postexercise ischemia under moderate or high heat stress were not affected by concurrent application of lower body pressure. The authors concluded from these findings that cardiopulmonary and arterial baroreflex activity influences the metabo-reflex modulation of cutaneous vascular conductance, but not sweat rate, during heat stress [932]. A study conducted at the San Diego State University, California, suggested that reflex sweating in the heat during isometric handgrip exercise is primarily due to a priming effect in the sweat glands and not caused by an increase in skin temperature [446].

A useful overview discussed actions of hyperthermia on the autonomic nervous system. The authors reported that the detrimental effect of hyperthermia on central nerves

and the hyperthermia induced damage to the enteric nerves are long lasting, but the reduced contractility of cardiac muscle and gastrointestinal smooth muscle when exposed to hyperthermia is short-lived. Inadequate calcium handling is the accepted mechanism of heat damage to cardiac and skeletal muscle [785]. Brain temperature which depends on the general body core and arterial blood temperature response, seems to be a major factor affecting motor performance during sustained contractions and most probably also during prolonged dynamic exercise [806].

Multiple animal experiments have artificially evoked hyperthermia induced seizures to determine how fever seizures are generated [1430]. Animal models of hyperthermia induced seizures was topic in 4 conference abstracts [997, 083, 1112, 1144].

A paper from Taiwan reviewed therapeutic applications of heat in cancer therapy including nanotechnology based hyperthermia. The authors discussed mathematical and numerical models for calculating temperature distribution and addressed the importance of understanding the heat transfer for optimal treatment results [233]. Many cancer-targeting nanosystems have been synthesized that can mediate hyperthermia, including carbon nanotubes and gold- and magnetic-based nanocarriers [211]. The use of nanoparticles for the induction of hyperthermia was reported in animal experiments [390, 1184].

An article from Germany reviewed the current knowledge about the anaesthesiological and intensive care management of patients undergoing hyperthermic intraperitoneal chemotherapy. Based on alterations of hemodynamic, hematopoietic, and fluid haemostasis occurring under this treatment, strategies for the perioperative monitoring are proposed [311]. Another review paper identified bone marrow suppression, renal failure and anastomotic leakage or perforation as the most frequent complications following hyperthermic intraperitoneal chemotherapy [193].

Fever

Fever appeared in most papers as symptom of infection [34, 223, 346, 459, 463, 499, 504, 516, 564, 578, 597, 606, 627, 659, 660, 663] or inflammatory disease [71, 101, 207, 470, 569, 637]. Treatment of fever with antipyretic drugs [880, 900, 1207], antibiotics [658] or cooling [471, 663, 1165] was reported. Three presentations at the conference "Clinical Temperature Measurement" were related to fever detection [1118, 1305, 1354].

A letter related to a comment that was included in last years literature survey [27] addressed the beneficial effects of fever as a component of host defenses against infection [620]. A cross-sectional study conducted in Turkey, investigated the knowledge, attitudes and misconceptions regarding fever in children. The study involved all primary care physicians working in a province with a population of 600 000. 10% of the physicians knew that a body temperature of above 37.2°C according to an auxiliary measurement is defined as fever and only 26.2% of the physicians took signs and symptoms other than fever in consideration to prescribe antipyretics [809]. Another study from Turkey investigated the accuracy of fever diagnosis based on pa-

tients' perception or on temperature estimation based on touching the patients by nurses or physicians of different levels of training. Diagnostic accuracy of patients perception was 71%, was 89% for nurses, 88% for specialists, 87% for resident doctors and 85% for interns [817].

A comparison of rectal and axillary temperature measurements in infants less than 1 year of age found higher values at the rectum than at the axilla and only moderate concordance of findings in febrile patients. Age of the infants and the time of day when temperature have been measured, had a variable influence on the temperature measurements [1349]. Temporal artery temperature and rectal temperature were determined in 47 pediatric patients between 3 and 36 months of age. No significant difference in either febrile or non febrile children were found between the two measurements, but mean values of differences between temporal artery and rectal temperature have not been reported [1021]. Temperature of the forehead either measured with an infrared thermometer or an contact thermometer were compared to rectal temperatures in 434 children, aged 1 to 48 months. The mean difference between the rectal temperature and the contact thermometer was $-0.2 \pm 0.28^{\circ}\text{C}$ and the mean difference between the non-contact infrared thermometer and rectal temperature was $0.029 \pm 0.01^{\circ}\text{C}$ [1368]. In 60 children, aged between 1 and 48 months, temperatures were measured at the axilla, over the temporal artery and at the naso-pharynx during anaesthesia for elective lower abdomen surgery. The authors reported almost identical mean values of nasopharyngeal and temporal temperatures with acceptable 95% limits of agreement (mean difference : 0.02°C , -0.46 to 0.51). Mean axillary temperature was 0.69 to 0.71°C lower than the temperature taken at the two other sites and 95% limits of agreement were wide (-1.5 or 1.45 to 0.08°C) [701].

Low agreement between non-contact, tympanic, and axillary body temperature measurements was also reported in an adult emergency department population. Mean temperature difference between axillary and tympanic measurement was $0.5 \pm 0.63^{\circ}\text{C}$, $0.2 \pm 0.71^{\circ}\text{C}$ between axillary and non contact thermometer, and $0.31 \pm 0.61^{\circ}\text{C}$ for the comparison of tympanic with non contact measurement. The limits of agreement were in the range of 2.4 to 2.8 degrees C [114].

An updated guideline on "Management of Fever in Children" recommended axillary temperature measurement using a digital thermometer in children younger than 4 weeks. In children older than 4 weeks, either axillary temperature measurement using a digital or infrared thermometer (tympanic or with or without skin contact) is recommended [871].

Thermography

The use of infrared thermography in CRPS, Raynaud's phenomenon and breast cancer was already mentioned. Differential scanning calorimetry was reported in 3 biochemistry [97,122,130] and 2 pharmaceutical papers [870, 904]. An editorial discussed methods for the detection of vulnerable plaques and mentioned also thermography [67]. A case of gustatory sweating that developed after neck dissection was evaluated by infrared thermography [378]. An

excellent intra-observer reproducibility of ocular surface measurements with a novel thermographic device was reported [695]. The sleep stage was successfully estimated by using thermographically obtained environmental, forehead and nasal skin temperatures with a support vector machine [763].

The thermal distribution patterns of the surface of the entire head in 12 healthy bald headed male subjects was reported in a stud from Norway. The authors stated that the thermal patterns in general followed the anatomical location of the main superficial arteries and veins of the head as described in anatomy books, but some variations, especially with regard to the forehead and the superior aspect of the head were detected [689]. Reliability of thermal readings of the skin surface over the anterior deltoid was investigated during intermittent, overhead tapping tasks. The results suggested that thermal imaging is a reliable method for assessing work task demand effects on the musculoskeletal system and may be useful in assessing risk for upper extremity work related musculoskeletal disorders [971]

]Thermography was used to investigate the relationship between body mass and decrease of skin temperature at the lower extremities after whole body cryotherapy [422]. A review paper reported the use and effectiveness of thermal imaging for the assessment of skin temperature following the application of cryotherapy [631]. Infrared thermography was also used to record skin temperatures following cooling of rheumatoid arthritic hands with vaporizing nitrogen or cold air [469].

An article recommended the application of thermography in clinical care for the diabetic foot [444]. A review on the temperature of the human knee reported differences in temperatures recorded with contact or non-contact devices [625]. 3 days after total knee replacement, the temperature of the operated knee was $3.4 \pm 0.7^{\circ}\text{C}$ higher than contra-lateral non operated knee. 90 days after surgery the knee temperature returned to baseline readings in patients with uncomplicated surgery, but in patients with complications the mean side-to-side difference of knee temperature was $1.6 \pm 0.6^{\circ}\text{C}$ [709]. A large retrospective study related thermographic imaging with musculo-skeletal ultrasound findings of the knee [632,633]. Subclinical inflammation was detected in a patient with tophaceous gout [651]. A publication from Brazil reported no difference in temperature over the upper trapezius muscle between patients with mild neck pain and healthy controls [545]. Fractures at the extremities of children can be identified by infrared thermography. In 51 children presented in a pediatric emergency department following limb trauma, the warmest area on digital thermal imaging matched the pain site in 36 of 49 patients and coincided with the fracture side in 7 of 11 children [713].

Skin temperature of the lower extremities determined with infrared thermal imaging was used as secondary outcome measure in a pilot study in which the safety and efficacy of multiple intramuscular injections of adipose tissue-derived mesenchymal stem cells was investigated in 15 patients suffering from critical limb ischemia [532]. Thermal imaging was found to be a non responsive outcome measure in a pi-

lot trial of laser treatment for systemic sclerosis related telangiectasies [404].

Change of body surface temperature was recorded with infrared thermography during laser needle acupuncture in premature infants [413]. A thermogram and Doppler flowmetry were used as anecdotal proof for the effectiveness of warming following qigong therapy by hovering both hand palms over the head of the patient [668]. A Chinese study speculated about the existence of meridians based on the results of treatment of facial paralysis with moxibustion applied at the Hegu (LI4) acupuncture point. Due to poor and insufficient methodology these results lack plausibility [887]. Another study claimed that thermography can detect meridians in children suffering of autism and that these meridians change infrared emission after drinking a solution of “*stable water clusters with double helix configuration*” [816]. If applying thermography or other techniques for detection of meridians, Litscher’s statement that “*from a scientific point of view, nobody could reproduce, demonstrate or visualize meridians*” is correct [754]. However, thermography was described as a useful technique to record blood flow related skin temperature changes during acupuncture treatment [986].

Authors from India used skin temperature measurements recorded with thermography to diagnose diabetes type II [495]. A thermographic system reliably acquired time aligned nasal airflow and thoraco-abdominal motion estimates without relying on attached sensor performance and detected asynchronous breathing in pediatric patients [560]. A provocative test of allergy against peanuts was evaluated with thermography, which successfully differentiated the effects of the allergen or placebo [630]. A review paper on the technique and interpretation of diagnostic oral food challenges mentioned as thermography as possible alternative to full oral challenge [497]. A study from Croatia proposed an diagnostic algorithm for varicocele based on patterns of skin temperature distributions at the scrotum. In a small evaluation study with 12 patients the thermographic examination confirmed the diagnosis based on physical examination in all subjects [572].

A biography of the American neuroradiologist Ernest Harvey Wood who pioneered the application of thermography for the diagnosis of occlusive carotid artery disease [827]. A historical perspective on the relationship between physics and medicine [913] mentioned Hippocrates as the inventor of an early form of a thermographic image.

Discussion

The search profile of this year’s survey is identical to that of the literature review for the year 2011 (27). However, the survey might be not comprehensive due to the source of publications used. Fever, accidental and therapeutic hypothermia and hyperthermic treatment were the main fields of application of thermometry. Methods and techniques for controlling and modifying core temperature were discussed in many papers. The awareness of unintended hypothermia is still growing and a number of procedures have been reported to prevent the drop of core temperature during surgery. Beneficial and harmful effects of hyperthermia are

now better understood and the physiological mechanisms behind these effects become clearer.

Half of the publications related to infrared thermography were dedicated to assist diagnosis in wide range of diseases. There is an ongoing debate whether meridians can be imaged with thermography. Novel approaches to diagnose endocrine and metabolic disorders with thermography need to be supported by further, high quality studies.

English continues to be the predominant language for medical publication. Only 4.3 percent of the papers reviewed in this article were not published in English, and 39% of these papers appeared in Chinese. About 1% of publications appeared bilingual, presenting the paper in an English version combined with a version in the national language. Turkish was the language most often combined with English in bilingual publications.

An average impact factor of 2620 points was calculated for the 16 journals, which published in 2012 more than 8 papers on temperature measurement. This is a decrease by 1.0 points compared to last year. These might be caused by the contribution of last year’s publications in “Circulation” which boosted the average impact factor of 2011 similar as the papers published in “Nature.” increased the mean impact factors in 2010.

37.9% of authors of papers came from Europe, 27.8 % originated from North America and 28.4 % from Asia. 117 authors (29.7%) from Asia live and work in China, 97 researcher (24.6%) come from Japan and 37 authors (9.4%) originated from India. Publications from countries in Africa or South America are still rare and comprise together less than 3% of all articles included.

Like last year, this years' literature survey was focused on temperature measurements with impact on clinical medicine. Pharmacology and Pharmacy, internal medicine and cancer were frequently identified fields of temperature measurement in medicine. Monitoring of thermotherapy with change of the core temperature in either direction was another important application of medical thermometry. Established and novel applications of diagnostic infrared thermal imaging have been reported.

References

1. Ribeiro P, Silva A, Antunes L, Gabriel J. Temperature changes during ketamine anaesthesia in laboratory animals. *Thermology International* 2012, 22(3) 109-110
2. Seixas A, Silva A, Gabriel J, Vardasca, R. The effect of different vibration exercise frequencies in the skin temperature of lower extremities in healthy subjects *Thermology International* 2012, 22(3) 122-123
3. Dejesus K, Ramos A, Vilas Boas JP, Gabriel J. Thermography in front crawl swimming at anaerobic threshold intensity. *Thermology International* 2012, 22(3) 107-108
4. Xarez L, Silva A, Pereira F, Gabriel J. Surface temperature evolution on dancing activities. *Thermology International* 2012, 22(3) 113
5. Vardasca P, Ring EFJ, Plassmann P, Jones CD, Gabriel J. Using clinical thermography as diagnostic complementary procedure for hand arm vibration syndrome. *Thermology International* 2012, 22(3) 94
6. Vardasca T, Martins H, Vardasca R, Gabriel J. Integrating medical thermography on a RIS using DICOM standard. *Thermology International* 2012, 22(3) 97

- 7.Mendes E, Silva A, Oliveira T, Crisostomo C, Vax F, Gabriel J. Thermography as an alternative tool to determine pressure distribution on the stump of transfemoral amputees. *Thermology International* 2012, 22(3) 99-100
- 8.Clemente M, Silva A, Gabriel J, Pinh J. The usefulness of thermography in the assessment of temporomandibular disorders in orchestra musicians. *Thermology International* 2012, 22(3) 111
- 9.Silva A, Postolache O, Postolache G, Oliveira T, Gabriel J. Force distribution in wheelchairs using force sensors and thermography. *Thermology International* 2012, 22(3) 115-116
- 10.Castro V, Clemente M, Silva A, Gabriel J, Pinho J. Infrared imaging of the cranio-cervical-mandibular complex in bruxism patients. *Thermology International* 2012, 22(3) 124-125
- 11.Vardasca R, Gabriel J. Templated model for hand medical thermal image standard analysis. *Thermology International* 2012, 22(3) 121-122
- 12.Pinto Ribeiro T, Amado L, Silva A, Gabriel J. Bone temperature changes and distribution during dental implant bed preparation. *Thermology International* 2012, 22(3) 111-112
- 13.Qi C, Yu XL, Liang P, Cheng Z-G, Liu, F-Y, Han Z-Y . Ultrasound guided microwave ablation in treatment of liver metastases of neuroendocrine tumors. *Chinese Journal of Interventional Imaging and Therapy* 2012, 9(6) 423-426
- 14.Yu J, Liang P, Yu X-L, Cheng Z-G, Han Z-Y, Dong B-W. Needle track seeding after percutaneous microwave ablation of malignant liver tumors under ultrasound guidance: Analysis of 14-year experience with 1462 patients at a single center. *European Journal of Radiology* 2012, 81(10) 2495-2499
- 15.Yu X, Liang P, Yu J, Cheng Z, Han Z, Liu F, Yu X. Ultrasound-guided percutaneous microwave ablation of hepatocellular carcinoma adjacent to the gastrointestinal tract under temperature monitoring. *Journal of Vascular and Interventional Radiology* 2012, 23(6) 853e28-853e29
- 16.Liang P. Ultrasound-guided percutaneous microwave ablation of renal cell carcinoma: Intermediate-term results. *Journal of Vascular and Interventional Radiology* 2012, 23(6) 853.e20
- 17.Qi C, Yu X-L, Liang P, Cheng Z-G, Liu F-Y, Han Z-Y, Yu J. Ultrasound-guided microwave ablation for abdominal wall metastatic tumors: A preliminary study. *World Journal of Gastroenterology* 2012, 18(23) 3008-3014
- 18.Feng B, Liang P, Cheng Z, Yu X, Yu J, Han Z, Liu, F. Ultrasound-guided percutaneous microwave ablation of benign thyroid nodules: Experimental and clinical studies. *European Journal of Endocrinology* 2012, 166(6) 1031-1037
- 19.Yu J, Liang P, Yu X-L, Cheng Z-G, Han Z-Y, Mu M-J, Wang X-H. US-guided percutaneous microwave ablation of renal cell carcinoma: Intermediate-term results. *Radiology* 236(3) 900-908
- 20.Liu F-Y, Yu X-L, Liang P, Cheng Z-G, Han Z-Y, Dong B-W, Zhang X-H. Microwave ablation assisted by a real-time virtual navigation system for hepatocellular carcinoma undetectable by conventional ultrasonography. *European Journal of Radiology* 2012, 81(7) 1455-1459
- 21.Liang P, Yu J, Yu X-L, Wang X-H, Wei Q, Yu S-Y, Li H-X, Sun H-T, Zhang Z-X, Liu H-C, Cheng Z-G, Han Z-Y. Percutaneous cooled-tip microwave ablation under ultrasound guidance for primary liver cancer: A multicentre analysis of 1363 treatment-naïve lesions in 1007 patients in China. *Gut* 2012, 61(7) 1100-1101
- 22.Li M, Yu X, Liang P, Liu F, Dong B, Zhou P. Percutaneous microwave ablation for liver cancer adjacent to the diaphragm. *International Journal of Hyperthermia* 2012, 28(3) 218-226
- 23.Feng B; Liang P. Local thermal ablation of renal cell carcinoma. *European Journal of Radiology* 2012, 81(3) 437-440
- 24.Wang F, Zhang J, Han Z-Y, Cheng Z-G, Zhou H-Y, Feng L, Hu D-M. Imaging manifestation of conventional and contrast-enhanced ultrasonography in percutaneous microwave ablation for the treatment of uterine fibroids. *European Journal of Radiology* 2012, 81(11) 2947-2952
- 25.Ahmed M, Moussa M, Goldberg SN. Synergy in cancer treatment between liposomal chemotherapeutics and thermal ablation *Chemistry and Physics of Lipids* 2012,165(4) 424-437.
- 26.Akl K, Rawashdeh MO. Isolated myositis as a sole presentation of familial Mediterranean fever *Rheumatology International* 2012,32(10) 3321-3322.
- 27.Ammer K. Thermology 2011 - A computer-assisted literature survey *Thermology International* 2012,22(1): 5-31.
- 28.Arrigo A.-P. Heat shock proteins in cancer *Current Molecular Medicine* 2012,12(9): 1099-1101. 2012
- 29.Asada R, Kageyama K, Tanaka H, Saitoh Y, Miwa N. Anti-tumor and anti-invasive effects of diverse musk-fragrant macrocyclic ketones and their enhancement by hyperthermia. *Molecular Medicine Reports* 2012,5(1): 148-152.
- 30.Bahat A, Caplan S,R, Eisenbach M. Thermotaxis of human sperm cells in extraordinarily shallow temperature gradients over a wide range *PLoS ONE* 2012,7:7 Article Number: e41915. 25 Jul 2012
- 31.Bakht M,K, Sadeghi M, Pourbaghi-Masouleh M, Tenreiro C. Scope of nanotechnology-based radiation therapy and thermotherapy methods in cancer treatment *Current Cancer Drug Targets* 2012,12(8): 998-1015. 2012
- 32.Bal NC, Maurya SK, Sopariwala DH, Sahoo SK, Gupta SC, Shaikh SA, Pant M, Rowland LA, Goonasekera SA, Molkentin JD, Periasamy M. Sarcolipin is a newly identified regulator of muscle-based thermogenesis in mammals *Nature Medicine* 2012, 18(10):1575-1579.
- 33.Benecke H, Waring J, Lotts T, Stander S. Induction of cell death in a glioblastoma line by hyperthermic therapy based on gold nanorods *Methods in Pharmacology and Toxicology* 2012, 255-277.
- 34.Bhowmik A, Mondal B, Pal R, Banerjee P. A case of extensive neurocysticercosis involving brain and spinal cord *Journal of Pediatric Neurology* 2012,10(3): 229-231.
- 35.Bian L, Sun X Jin K, He Y. Oral cancer-associated fibroblasts inhibit heat-induced apoptosis in Tca8113 cells through up-regulated expression of Bcl-2 through the Mig/CXCR3 axis *Oncology Reports* 2012,28(6): 2063-2068.
- 36.Burgess JL, Duncan MD, Hu C, Littau SR, Caseman D, Kurzius-Spencer M, Davis-Gorman G, McDonagh PF. Acute cardiovascular effects of firefighting and active cooling during rehabilitation *Journal of Occupational and Environmental Medicine* 2012,54(1):1 1413-1420.
- 37.Burke AR, Singh RN, Carroll DL, Wood JCS, D'Agostino RB, Ajayan PM, Torti FM, Torti SV. The resistance of breast cancer stem cells to conventional hyperthermia and their sensitivity to nanoparticle-mediated photothermal therapy *Biomaterials* 2012,33(10):2961-2970.
- 38.Cabada TF, de Pablo CSL, Serrano AM, Guerrero FP, Olmedo JJS, Gomez MR. Transient receptor potential channels and prurititus *International Journal of Nanomedicine* 2012,7: 1511-1523.
- 39.Chawla S, Pundir CS., An amperometric hemoglobin A1c biosensor based on immobilization of fructosyl amino acid oxidase onto zinc oxide nanoparticles-polypyrrole film *Analytical Biochemistry* 2012,430(2): 156-162.
- 40.Chen S-F, Chang Y-T, Lu C-H, Huang C-R, Tsai N-W, Chang C-C, Huang C-C, Chuang Y-C, Chang W-N. Sweat output measurement of the post-ganglion sudomotor response by Q- Sweat Test: a normative database of Chinese individuals *BMC Neuroscience* 2012,13(1): Article Number: 62.
- 41.Chen X-H, Beebe SJ, Zheng S-S. Tumor ablation with nanosecond pulsed electric fields *Hepatobiliary and Pancreatic Diseases International* 2012,11(2) 122-124.
- 42.Chen X-M, Kitts DD. Characterization of antioxidant and anti-inflammatory activities of bioactive fractions recovered from a glucose-lysine Maillard reaction model system *Molecular and Cellular Biochemistry* 2012,364(1):2 147-157.
- 43.Churyukanov M, Plaghki L, Legrain V, Mouraux A, El-Deredry W, Thermal Detection Thresholds of Adelta- and C- Fibre Afferents Activated by Brief CO2 Laser Pulses Applied onto the Human Hairy Skin *PLoS ONE* 2012,7:4 Art.Number: e35817.
- 44.De Cuba EMV, Kwakman R, Van Egmond M, Bosch LJW, Bonjer HJ, Meijer GA, Te Velde EA. Understanding molecular mechanisms in peritoneal dissemination of colorectal cancer: Future possibilities for personalised treatment by use of biomarkers *Virchows Archiv* 2012,461(3) 231-243.

45. Deboer LB, Powers MB, Utschig AC, Otto MW, Smits JAJ. Exploring exercise as an avenue for the treatment of anxiety disorders Expert Review of Neurotherapeutics 2012,12(8): 1011-1022
46. Dreaden EC, Austin LA, MacKey MA, El-Sayed MA. Size matters: Gold nanoparticles in targeted cancer drug delivery Therapeutic Delivery 2012,3(4) 457-478.
47. Fan G-B, Wu P-L, Wang X-M. Changes of oxygen content in facial skin before and after cigarette smoking Skin Research and Technology 2012,18(4): 511-515.
48. Fedorovich AA. Non-invasive evaluation of vasomotor and metabolic functions of microvascular endothelium in human skin Microvascular Research 2012,84(1): 86-93.
49. Fischer M, Dietmann A, Lackner P, Beer R, Helbok R, Pfassler B, Reindl M, Schmutzhard E, Broessner G. Endovascular cooling and endothelial activation in hemorrhagic stroke patients Neurocritical Care 2012,17(2):224-230.
50. Fluhr JW, Sassning S, Lademann O, Darvin ME, Schanzer S, Kramer A, Richter H, Sterry W, Lademann J. In vivo skin treatment with tissue-tolerable plasma influences skin physiology and antioxidant profile in human stratum corneum Experimental Dermatology 2012,21(2) 130-134.
51. Frey B, Weiss EM, Rubner Y, Wunderlich R, Ott OJ, Sauer R, Fietkau R, Gaipl US. Old and new facts about hyperthermia-induced modulations of the immune system International Journal of Hyperthermia 2012,28(6): 528-542.
52. Fujiwara Y, Kurokawa T, Takeshita K, Kobayashi M, Okochi Y, Nakagawa A, Okamura Y. The cytoplasmic coiled-coil mediates cooperative gating temperature sensitivity in the voltage-gated H⁺ channel Hv1 Nature Communications 2012,3 Article Number: 816. 2012
53. Gerona RR, Wu AHB. Bath salts Clinics in Laboratory Medicine 2012,32(3) 415-427.
54. Gifford JR, Heal C, Bridges J, Goldthorpe S, Mack GW. Changes in dermal interstitial ATP levels during local heating of human skin Journal of Physiology 2012,590(2):4 6403-6411.
55. Gray RD, Buscaglia R, Chaires JB. Populated intermediates in the thermal unfolding of the human telomeric quadruplex Journal of the American Chemical Society 2012,134:40 16834-16844.
56. Haddad D, Hildenbrand MF, Hiller K-H, Haddad-Weber M, Jakob PM. Specific identification of iron oxide-labeled stem cells using magnetic field hyperthermia and MR thermometry NMR in Biomedicine 2012,25:3 402-409.
57. Halperin A, Kroger M. Theoretical considerations on mechanisms of harvesting cells cultured on thermoresponsive polymer brushes Biomaterials 2012,33:20 4975-4987.
58. Hammouda O, Chahed H, Chtourou H, Ferchichi S, Miled A, Souissi N. Morning-to-evening difference of biomarkers of muscle injury and antioxidant status in young trained soccer players Biological Rhythm Research 2012,43:4 431-438. 2012
59. He J, Votruba S, Pomeroy J, Bonfiglio S, Krakoff J. Measurement of ad libitum food intake, physical activity, and sedentary time in response to overfeeding. PLoS ONE 2012,7:5 Article Number: e36225.
60. Hougeir FG, Kircik L. A review of delivery systems in cosmetics Dermatologic Therapy 2012,25:3 234-237.
61. Hsu Y-H, Chen Y-C, Chen T-H, Sue Y-M, Cheng T-H, Chen J-R, Chen C-H. Far-infrared therapy induces the nuclear translocation of PLZF which inhibits VEGF-induced proliferation in human umbilical vein endothelial cells PLoS ONE 2012,7(1): Article Number: e30674. 2
62. Huang P-H, Chen J-W, Lin C-P, Chen Y-H, Wang C-H, Leu H-B, Lin S-J. Far infra-red therapy promotes ischemia-induced angiogenesis in diabetic mice and restores high glucose-suppressed endothelial progenitor cell functions Cardiovascular Diabetology 2012,11 Article Number: 99.
63. Huang Y-C, Hsu C-C, Wang P-W, Chang Y-H, Chen T-B, Lee B-F, Chiu N-T. Review analysis of the association between the prevalence of activated brown adipose tissue and outdoor temperature The Scientific World Journal 2012,2012 Article Number: 793039.
64. Hyslop L, Prathalingam N, Nowak L, Fenwick J, Harbottle S, Byerley S, Rhodes J, Watson B, Henderson R, Murdoch A, Herbert M. A novel isolator-based system promotes viability of human embryos during laboratory processing. PLoS ONE 2012, 7(2): Article Number: e31010.
65. Jakob J, Von Rege I, Weiss C, Hohenberger P. Impact of hyperthermic isolated limb perfusion on tumour oxygenation in soft tissue sarcoma International Journal of Hyperthermia 2012, 28(7): 591-596.
66. Jaluria P. Bucking the trend: A perspective on why platform processes are not and should not define the future of bioprocess development efforts BioPharm International 2012,25:9 54-56.
67. Jang I-K. Near infrared spectroscopy another toy or indispensable diagnostic tool? Circulation: Cardiovascular Interventions 2012,5(1): 10-11.
68. Janssen LJ. Airway smooth muscle as a target in asthma and the beneficial effects of bronchial thermoplasty Journal of Allergy 2012, Article Number: 593784.
69. Jones RP, Kitteringham NR, Terlizzo M, Hancock C, Dunne D, Fenwick SW, Poston GJ, Ghaneh P, Malik HZ. Microwave ablation of ex vivo human liver and colorectal liver metastases with a novel 14.5GHz generator International Journal of Hyperthermia 2012,28(1): 43-54.
70. Jung HJ, Seo YR. Protective effects of thioredoxin-mediated p53 activation in response to mild hyperthermia Oncology Reports 2012, 27:3 650-656.
71. Kacprzak M, Kidawa M, Zielinska M. Fever in myocardial infarction: Is it still common, is it still predictive? Cardiology Journal 2012,19(4): 369-373. 2012
72. Kale SN, Jadhav AD, Verma S, Koppikar SJ, Kaul-Ghanekar R, Dhole SD, Ogale SB. Characterization of biocompatible NiCo2O4 nanoparticles for applications in hyperthermia and drug delivery Nanomedicine: Nanotechnology, Biology, and Medicine 2012,8(4): 452-459.
73. Kamonpatana K, Giusti M, Chitchumroonchokchai C, Morenacruz M, Riedl KM, Kumar P, Failla ML. Susceptibility of anthocyanins to ex vivo degradation in human saliva Food Chemistry 2012,135(2) 738-747.
74. Kanyong P, Pemberton RM, Jackson SK, Hart JP. Development of a sandwich format, amperometric screen-printed uric acid biosensor for urine analysis Analytical Biochemistry 2012, 428(1): 39-43.
75. Kapoian T, O'Mara NB, Carreon M, Gajary A, Rizkala A, Lefavour G, Sherman RA, Walker J. Iron indices and intravenous ferumoxytol: Time to steady-state Annals of Pharmacotherapy 2012,46(10): 1308-1314.
76. Khandhar AP, Ferguson RM, Simon JA, Krishnan KM. Tailored magnetic nanoparticles for optimizing magnetic fluid hyperthermia Journal of Biomedical Materials Research - Part A 2012,100 A:3 728-737.
77. Kim TH, Mount CW, Dulken BW, Ramos J, Fu CJ, Khant HA, Chiu W, Gombotz WR, Pun SH. Filamentous, mixed micelles of triblock copolymers enhance tumor localization of indocyanine green in a murine xenograft model Molecular Pharmaceutics 2012,9(1): 135-143.
78. Kimura K, Takeuchi H, Yuri K, Wakayama I. Inhibition of nitric oxide synthase attenuates cutaneous vasodilation during warm moxibustion-like thermal stimulation in humans Journal of Alternative and Complementary Medicine 2012, 18(10): 965-970
79. Kumamoto A, Schmid CL. Prometheus: The Supreme court redefines the patentability of diagnostic inventions Recent Patents on DNA and Gene Sequences 2012,6:3 193-196.
80. Lakshmanan SB, Zou X, Hossu M, Ma L, Yang C, Chen W. Local field enhanced Au/CuS nanocomposites as efficient photothermal transducer agents for cancer treatment Journal of Biomedical Nanotechnology 2012,8(6): 883-890.
81. Landers III MB, Watson JS, Ulrich JN, Quiroz-Mercado H. Determination of retinal and vitreous temperature in vitrectomy Retina 2012,32(1): 172-176.
82. Landsberg L. Core temperature: A forgotten variable in energy expenditure and obesity? Obesity Reviews 2012,13 (Suppl.2) 97-104
83. Leante-Castellanos J, Lloreda-Garcia JM, Garcia-Gonzalez A, Llopis-Bano C, Fuentes-Gutierrez C, Alonso-Gallego JA, Martinez-Gimeno A. Central-peripheral temperature gradient:

An early diagnostic sign of late-onset neonatal sepsis in very low birth weight infants *Journal of Perinatal Medicine* 2012,40(5): 571-576.

84.Lee CS, Jun IH, Kim T-I, Byeon SH, Koh HJ, Lee SC. Expression of 12 cytokines in aqueous humour of uveal melanoma before and after combined Ruthenium-106 brachytherapy and transpupillary thermotherapy *Acta Ophthalmologica* 2012, 90(4): e314-e320.

85.Li C, Wu P-M, Wu Z, Ahn CH, Ledoux D, Shutter LA, Hartings JA, Narayan RK. Brain temperature measurement: A study of in vitro accuracy and stability of smart catheter temperature sensors *Biomedical Microdevices* 2012,14(1): 109-118.

86.Li G, Gu R, Wen X Wei D, Ming X Chen H. The effect of early enteral nutrition on hyperthermic intraoperative intraperitoneal chemotherapy-induced mucosal permeability following gastrectomy *Journal of Parenteral and Enteral Nutrition* 2012, 36:2 213-218.

87.Lin T-C, Lin F-H, Lin J-C. In vitro feasibility study of the use of a magnetic electrospun chitosan nanofiber composite for hyperthermia treatment of tumor cells *Acta Biomaterialia* 2012, 8(7): 2704-2711.

88.Liu J-Y, Zhao L-Y, Wang Y-Y, Li D-Y, Tao D, Li L-Y, Tang J-T. Magnetic stent hyperthermia for esophageal cancer: An in vitro investigation in the ECA-109 cell line *Oncology Reports* 2012,27:3 791-797.

89.Liu S, Chen J-F. Strategies for therapeutic hypometabolism *Journal of Experimental Stroke and Translational Medicine* 2012,5(1): 31-42.

90.Lubinsky M. Hypothesis: Cystic fibrosis carrier geography reflects interactions of tuberculosis and hypertension with vitamin D deficiency, altitude and temperature, Vitamin D deficiency effects and of carrier advantage *Journal of Cystic Fibrosis* 2012,11(1): 68-70.

91.Machado-Moreira CA, McLennan PL, Lillioja S, Van Dijk W, Caldwell JN, Taylor NAS. The cholinergic blockade of both thermally and non-thermally induced human eccrine sweating *Experimental Physiology* 2012,97(8): 930-942.

92.Manayath GJ, Narendran V, Arora S, Morris RJ, Saravanan VR, Shah PK. Graded subthreshold transpupillary thermotherapy for chronic central serous chorioretinopathy *Ophthalmic Surgery Lasers and Imaging* 2012,43:4 284-290.

93.Manchanda R, Fernandez-Fernandez A, Carvajal DA, Lei T, Tang Y, McGoron AJ. Nanoplexes for cell imaging and hyperthermia: In vitro studies *Journal of Biomedical Nanotechnology* 2012,8(4): 686-694.

94.Mestre-Alfaro A, Ferrer M,D, Banquells M, Riera J, Drobnic F, Sureda A, Tur JA, Pons A. Body temperature modulates the antioxidant and acute immune responses to exercise *Free Radical Research* 2012,46:6 799-808.

95.Mishra SK, Siddique HR, Saleem M. S100A4 calcium-binding protein is key player in tumor progression and metastasis: Pre-clinical and clinical evidence *Cancer and Metastasis Reviews* 2012,31(1):2 163-172.

96.Mondal B, Chatterjee D, Bhattacharyya M. Structure- function alteration of hemoglobin in arsenicosis patients: A probable pathway to exert toxicity *Journal of Applied Toxicology* 2012, 32(8): 581-589.

97.Mori S, Choi J, Devireddy RV, Bischof JC. Calorimetric measurement of water transport and intracellular ice formation during freezing in cell suspensions *Cryobiology* 2012,65:3 242-255

98.Muenyi CS, Pinhas AR, Fan TW, Brock GN, Helm CW, States JC. Sodium arsenite plus or minus hyperthermia sensitizes p53-expressing human ovarian cancer cells to cisplatin by modulating platinum-DNA damage responses *Toxicological Sciences* 2012,127(1): 139-149.

99.Naik S, Kerr D, Begley J, Morton J. Influence of local skin temperature and choice of insulin analog on catheter occlusion rates during continuous insulin infusion: An exploratory study *Diabetes Technology and Therapeutics* 2012,14(1):1 1018-1022.

100.Niederberger C. Re: Mild induced testicular and epididymal hyperthermia alters sperm chromatin integrity in men: Editorial comment *Journal of Urology* 2012,188(6): 2321-2322.

101.Niven DJ, Leger C, Stelfox HT, Laupland KB. Fever in the critically ill: A review of epidemiology, immunology, and management *Journal of Intensive Care Medicine* 2012,27:5 290-297.

102.Ohba T, Yano T, Yoshida T, Kawano D, Tsukamoto S, Shoji F, Taketomi A, Saitsu H, Takeo S, Maehara Y. Results of a surgical resection of pulmonary metastasis from hepatocellular carcinoma: Prognostic impact of the preoperative serum alpha-fetoprotein level *Surgery Today* 2012,42:6 526-531.

103.Oyama K, Takabayashi M, Takei Y, Arai S, Takeoka S, Ishiwata S, Suzuki M. Walking nanothermometers: Spatiotemporal temperature measurement of transported acidic organelles in single living cells *Lab on a Chip - Miniaturisation for Chemistry and Biology* 2012,12(9): 1591-1593.

104.Periard JD, Ruell P, Caillaud C, Thompson MW. Plasma Hsp72 HSPA1A and Hsp27 HSPB1 expression under heat stress: Influence of exercise intensity *Cell Stress and Chaperones* 2012,17:3 375-383.

105.Petrofsky JS, Laymon M, Berk L, Al-Nakhli HH, Banh A, Eisentrout A, Tokar A, Valentine M, Batt J. Pilot study: Physiological evidence that heat reduces pain and muscle damage in delayed-onset muscle soreness *Clinical Practice* 2012,9(6): 639-650.

106.Pillai K, Akhter J, Chua TC, Morris DL. Potential mucolytic agents for mucinous ascites from pseudomyxoma peritonei *Investigational New Drugs* 2012,30(5): 2080-2086.

107.Portaluppi F, Smolensky MH, Haus E, Fabbian F. Relevance of chronobiology to the research and clinical practice of neurorehabilitation *Sleep Medicine Clinics* 2012,7:4 655-666.

108.Raouf M, Zhu C, Kaluarachchi WD, Curley SA. Luciferase-based protein denaturation assay for quantification of radiofrequency field-induced targeted hyperthermia: Developing an intracellular thermometer *International Journal of Hyperthermia* 2012,28(3): 202-209.

109.Ren Y, Zhang H, Chen B, Cheng J, Cai X Liu R, Xia G, Wu W, Wang S, Ding J, Gao C, Wang J, Bao W, Wang L, Tian L, Song H, Wang X. Multifunctional magnetic Fe₃O₄ nanoparticles combined with chemotherapy and hyperthermia to overcome multidrug resistance *International Journal of Nanomedicine* 2012, 7 2261-2269.

110.Rennella E, Corazza A, Codutti L, Causero A, Bellotti V, Stoppini M, Viglino P, Fogolari F, Esposito G. Single-shot NMR measurement of protein unfolding landscapes *Biochimica et Biophysica Acta - Proteins and Proteomics* 2012,1824(6) 842-849.

111.Robson K. A store point EBR - European Biopharmaceutical Review 2012;AUTUMN 36-42.

112.Sakuma T, Gocho S, Ogasawara F, Tsukune Y, Sawamoto K, Numata M, Nagata N, Deguchi R, Mine T. A case of small bowel ulcer caused by NSAIDs and detected after capsule endoscopy retention *Tokai Journal of Experimental and Clinical Medicine* 2012,37(1): 14-18.

113.Sato D, Onishi H, Yamashiro K, Iwabe T, Shimoyama Y, Maruyama A. Water immersion to the femur level affects cerebral cortical activity in humans: Functional near-infrared spectroscopy study *Brain Topography* 2012,25:2 220-227.

114.Sener S, Karcioğlu O, Eken C, Yaylıcı S, Özşarac M. Agreement between axillary, tympanic, and mid-forehead body temperature measurements in adult emergency department patients *European Journal of Emergency Medicine* 2012,19(4): 252-256.

115.Shen H, You J, Zhang G, Ziemys A, Li Q, Bai L, Deng X, Erm D,R, Liu X Li C, Ferrari M. Cooperative, nano-particle-enabled thermal therapy of breast cancer *Advanced Healthcare Materials* 2012, 1(1): 84-89

116.Shim MS, Kwon YJ. Advanced Drug Delivery *Reviews* 2012,64(1):1 1046-1059.

117.Silva R. Myopic maculopathy: A review *Ophthalmologica* 2012,228(4): 197-213.

118.Stevenson RJ, Hodgson D, Oaten MJ, Moussavi M, Langberg R, Case TI, Barouei J. Disgust elevates core body temperature and up-regulates certain oral immune markers. *Brain, Behavior, and Immunity* 2012,26:7 1160-1168.

119.Strapazzon G, Nardin M, Zanon P, Kaufmann M, Kritzing M, Brugger H. Respiratory failure and spontaneous hypoglycemia

emia during noninvasive rewarming from 24.7degreesC 76.5 degrees F core body temperature after prolonged avalanche burial *Annals of Emergency Medicine* 2012,60(2): 193-196.

120.Tabuchi Y, Wada S, Furusawa Y, Ohtsuka K, Kondo T. Gene networks related to the cell death elicited by hyperthermia in human oral squamous cell carcinoma HSC-3 cells *International Journal of Molecular Medicine* 2012,29(3): 380-386.

121.Terunuma H, Autologous immune enhancement therapy for cancer - our experience since 2004 *Journal of Stem Cells and Regenerative Medicine* 2012,8(3): 205-206.

122.Todinova S, Krumova S, Kurtev P, Dimitrov V, Djongov L, Dudunkov Z, Taneva SG. Calorimetry-based profiling of blood plasma from colorectal cancer patients *Biochimica et Biophysica Acta - General Subjects* 2012,1820(1):2 1879-1885.

123.Turner K, Varghese S, Alexander JRHR. Current concepts in the evaluation and treatment of patients with diffuse malignant peritoneal mesothelioma *JNCCN Journal of the National Comprehensive Cancer Network* 2012,10(1): 49-57.

124.Unsoy G, Yalcin S, Khodadust R, Gunduz G, Gunduz U. Synthesis optimization and characterization of chitosan-coated iron oxide nanoparticles produced for biomedical applications *Journal of Nanoparticle Research* 2012,14(1):1 Article Number: 964.

125.Vande Voorde J, Gago F, Vrancken K, Liekens S, Balzarini J. Characterization of pyrimidine nucleoside phosphorylase of *Mycoplasma hyorhinis*: Implications for the clinical efficacy of nucleoside analogues *Biochemical Journal* 2012,445(1): 113-123.

126.Veizi IE, Chelimsky TC, Janata JW. Chronic regional pain syndrome: What specialized rehabilitation services do patients require? *Current Pain and Headache Reports* 2012,16:2 139-146.

127.Verheijen RHM, Cibula D, Zola P, Reed N. Cancer antigen 125: Lost to follow-up? A European Society of Gynaecological Oncology consensus statement *International Journal of Gynecological Cancer* 2012,22(1): 170-174.

128.Verjans B, Glibert A, Baleriaux P. In-depth validation of closed-vial technology *BioPharm International* 2012,25:9 30-42. 2012

129.Wang L, Liu X Wu Y, Wu W, Wu Y. Involvement of ROS in the inhibitory effect of thermotherapy combined with chemotherapy on A549 human lung adenocarcinoma cell growth through the Akt pathway. *Oncology Reports* 2012,28(4): 1369-1375.

130.Wang L-S, Du C, Chung JE, Kurisawa M. Enzymatically cross-linked gelatin-phenol hydrogels with a broader stiffness range for osteogenic differentiation of human mesenchymal stem cells *Acta Biomaterialia* 2012,8(5): 1826-1837.

131.Wang LV, Hu S. Photoacoustic tomography: In vivo imaging from organelles to organs *Science* 2012,335:6075 1458-1462.

132.Wang Q, Xie L, He Z, Di D, Liu J. Biodegradable magnesium nanoparticle-enhanced laser hyperthermia therapy *International Journal of Nanomedicine* 2012,7 4715-4725.

133.Wang X, Cui E, Zeng H, Hua F, Wang B, Mao W, Feng X. RAGE Genetic Polymorphisms Are Associated with Risk, Chemotherapy Response and Prognosis in Patients with Advanced NSCLC *PLoS ONE* 2012,7(10):Article Number: e43734.

134.Wang Z-X Zhang B, Deng S-M, Chen S-J. Early evaluation for treatment efficacy of 5-fluorouracil and hyperthermia on HCT-116 colon cancer cells by fluorine-18-fluorodeoxyglucose uptake *Chinese Medical Journal* 2012,125:4 657-661.

135.Watson P, Enever S, Page A, Stockwell J, Maughan RJ. Tyrosine supplementation does not influence the capacity to perform prolonged exercise in a warm environment *International Journal of Sport Nutrition and Exercise Metabolism* 2012,22:5 363-373.

136.Whelton A. Hyperuricemia and hypertension: A confluence of concepts *Hypertension* 2012,60(5): 1112-1113.

137.Whiteley WN, Thomas R, Lowe G, Rumley A, Karaszewski B, Armitage P, Marshall I, Lymer K, Dennis M, Wardlaw J. Do acute phase markers explain body temperature and brain temperature after ischemic stroke? *Neurology* 2012,79(2): 152-158.

138.Xu T, Chang W, Cui M, Li Y, Si L, Wei T, Li X. Status quo and prevention of overtreatment in cervical diseases *European Journal of Gynaecological Oncology* 2012,33:3 300-303.

139.Yamamoto D, Inui T, Tsubota Y, Sueoka N, Yamamoto C, Kuwana K, Yamamoto M. The utility of hyperthermia for local recurrence of breast cancer *World Journal of Surgical Oncology* 2012,10 Article Number: 201.

140.Yoo TK, Cho HJ. Benign prostatic hyperplasia: From bench to clinic *Korean Journal of Urology* 2012,53:3 139-148.

141.Yu L-L, Wang X-M, Zou Y, Fan G-B, Wu P-L, Zhang Y-H, Yang L-J, Zhu X, Cao Y-N, Shi H-Y, Wang X-J. Correlation between the capsaicin test and objective skin measurements in evaluating sensitive skin in Chinese females *Journal of Dermatological Science* 2012,68(2): 108-115.

142.Zhang X-L, Hu A-B, Cui S-Z, Wei H-B. Thermotherapy enhances oxaliplatin-induced cytotoxicity in human colon carcinoma cells *World Journal of Gastroenterology* 2012,18(7): 646-653.

143.Zheng S, Li X Zhang Y, Xie Q, Wong Y-S, Zheng W, Chen T. PEG-nanolized ultrasmall selenium nanoparticles overcome drug resistance in hepatocellular carcinoma HepG2 cells through induction of mitochondria dysfunction, *International Journal of Nanomedicine* 2012,7 3939-3949.

144.Anonymous. Soft tissue and visceral sarcomas: ESMO clinical practice guidelines for diagnosis, treatment and follow-up *Annals of Oncology* 2012, 23(SUPPL. 7) vii92-vii99 Article Number: mds253.

145.Acharya UR, Ng EYK, Tan J-H, Sree SV. Thermography based breast cancer detection using texture features and support vector machine. *Journal of Medical Systems* 2012, 36 (3) 1503-1510.

146.Ahuja N. The heat of the matter. *Archives of Surgery* 2012, 147 (10) 924.

147.Alberts SR. Update on the optimal management of patients with colorectal liver metastases. *Critical Reviews in Oncology/Hematology* 2012, 84 (1) 59-70.

148.Alexander ES, Healey TT, Martin DW, Dupuy DE. Use of endobronchial valves for the treatment of bronchopleural fistulas after thermal ablation of lung neoplasms. *Journal of Vascular and Interventional Radiology* 2012, 23 (9) 1236-1240.

149.Alexander IM. The History of Hormone Therapy Use and Recent Controversy Related to Heart Disease and Breast Cancer Arising from Prevention Trial Outcomes. *Journal of Midwifery and Women's Health* 2012, 57 (6) 547-557.

150.Almeida-Goncalves JC. A curative cryosurgical technique for advanced cancer of sacrococcygeal pilonidal sinuses. *Journal of Surgical Oncology* 2012, 106 (4) 504-508.

151.Alongi F, Scorsetti M. Reply to Dr. Maluta and colleagues. *Tumori* 2012, 98 (1) 172-173.

152.Alvarez CS. Retinoblastoma in children. *Cancer and Chemotherapy Reviews* 2012, 7 (2) 92-104.

153.Ansaloni L, De Iaco P, Frigerio L. Re: "cytoreductive surgery and hyperthermic intraperitoneal chemotherapy as upfront therapy for advanced epithelial ovarian cancer: Multi-institutional phase II trial." - Proposal of a clinical trial of cytoreductive surgery and hyperthermic intraperitoneal chemotherapy in advanced ovarian cancer, the CHORINE study. *Gynecologic Oncology* 2012, 125 (1) 279-281.

154.Avital I, Brucher BLDM, Nissan A, Stojadinovic A. Randomized Clinical Trials for Colorectal Cancer Peritoneal Surface Malignancy. *Surgical Oncology Clinics of North America* 2012, 21 (4) 665-688.

155.Baba D, Seiko Y, Nakanishi T, Zhang H, Arakaki A, Matsunaga T, Osaka T. Effect of magnetite nanoparticles on living rate of MCF-7 human breast cancer cells. *Colloids and Surfaces B: Biointerfaces* 2012, 95: 254-257.

156.Bakandritsos A, Fatourou AG, Fatouros DG. Magnetoliposomes and their potential in the intelligent drug-delivery field. *Therapeutic Delivery* 2012, 3 (12) 1469-1482.

157.Bansal AS, Bianciotto CG, Maguire JI, Regillo CD, Shields JA, Shields CL. Safety of pars plana vitrectomy in eyes with plaque-irradiated posterior uveal melanoma. *Archives of Ophthalmology* 2012, 130 (10) 1285-1290.

158.Barick K. C, Hassan P. A. Glycine passivated Fe(3)O(4) nanoparticles for thermal therapy. *Journal of Colloid and Interface Science* 2012, 369 (1) 96-102.

159. Bartlett DL, Chu E. Can metastatic colorectal cancer be cured?. *Oncology* 2012, 26 (3) 1-16.
160. Bartochowska A, Wierzbicka M, Skowronek J, Leszczynska M, Szyfter W. High-dose-rate and pulsed-dose-rate brachytherapy in palliative treatment of head and neck cancers. *Brachytherapy* 2012, 11 (2) 137-143.
161. Berhil H, Chenna H, Nouni K, Mouhajir N, Tolba A, Zaidi H, Mezouri V, Hassouni K, Kebdani T, El Gueddari B. K, Benjaafar N. Malignant mesothelioma of peritoneum: About a case with review of the Literature. *Journal of Cancer Science and Therapy* 2012, 4 (8) 235-236.
162. Blackham AU, Levine EA. Cytoreductive surgery with hyperthermic intraperitoneal chemotherapy for malignant peritoneal mesothelioma. *European Journal of Clinical and Medical Oncology* 2012, 4 (2) 25-32.
163. Bomers J. G. R, Sedelaar JPM, Barentsz J. O, Futterer J. J. MRI-guided interventions for the treatment of prostate cancer. *American Journal of Roentgenology* 2012, 199 (4) 714-720.
164. Bondar ML, Hoogeman M. S, Mens JW, Quint S, Ahmad R, Dhawtal G, Heijmen B. J. Individualized nonadaptive and on-line- adaptive intensity-modulated radiotherapy treatment strategies for cervical cancer patients based on pretreatment acquired variable bladder filling computed tomography scans. *International Journal of Radiation Oncology Biology Physics* 2012, 83 (5) 1617-1623.
165. Bonvalot S, De Baere T, Mendiboure J, Paci A, Farace F, Drouard-Troalen L, Bonnet L, Hakime A, Bonniaud G, Raynard B, Israel P, Le Cesne A, Eggermont AM, Laplanche A, Muret J. Hyperthermic pelvic perfusion with tumor necrosis factor- (alpha) for locally advanced cancers: Encouraging results of a phase II study. *Annals of Surgery* 2012, 255 (2) 281-286.
166. Boyette-Davis JA, Eng C, Wang X. S, Cleeland CS, Wendelschafer-Crabb G, Kennedy W. R, Simone DA, Zhang H, Dougherty PM. Subclinical peripheral neuropathy is a common finding in colorectal cancer patients prior to chemotherapy. *Clinical Cancer Research* 2012, 18 (1) 3180-3187.
167. Braunewell S, Gunther M, Preusser T. Toward focused ultrasound liver surgery under free breathing. *Critical Reviews in Biomedical Engineering* 2012, 40 (3) 221-234.
168. Brecht I. B, Agaimy A, Besendorfer M, Carbon R, Thiel F. C, Rempel O, Osinski D, Langer T, Metzler M, Holter W. Malignant peritoneal mesothelioma in a 16-year-old girl: Presentation of a rare disease. *Klinische Padiatrie* 2012, 224 (3) 170-173.
169. Bruggmoser G, Bauchowitz S, Canters R, Crezee H, Ehmman M, Gellermann J, Lamprecht U, Lomax N, Messmer M. B, Ott O, Abdel-Rahman J, Schmidt M, Sauer R, Thomsen A, Wessalowski R, Van Rhoon G. Guideline for the clinical application, documentation and analysis of clinical studies for regional deep hyperthermia: Quality management in regional deep hyperthermia. *Strahlentherapie und Onkologie* 2012, 188(SUPPL. 2) 198-211.
170. Bruggmoser G. Some aspects of quality management in deep regional hyperthermia. *International Journal of Hyperthermia* 2012, 28 (6) 562-569.
171. Buga S, Sarria J. E. The management of pain in metastatic bone disease. *Cancer Control* 2012, 19 (2) 154-166.
172. Cao C, Yan T. D, Morris DL, Van Der Speeten K, Laurberg S, Glehen O, Link K, Piso P, Tentes A-A. K, Deraco M, Larsen S. G, Kecmanovic D, Bayon LG, Melero J. T, Gonzalez-Moreno S, Mahteme H, Gertsch P, Moran B, Esquivel J, Alexander R, Levine EA, Sugarbaker PH. Prospective Registry on Mesothelioma Peritonei Treatment (PROMPT): Study design and rationale. *Tumori* 2012, 98 (1) 166-171.
173. Carrafiello G, Ierardi AM, Piacentino F, Lucchina N, Dionigi G, Cuffari S, Fugazzola C. Microwave ablation with percutaneous approach for the treatment of pancreatic adenocarcinoma. *CardioVascular and Interventional Radiology* 2012, 35 (2) 439-442.
174. Cashin PH, Graf W, Nygren P, Mahteme H. Cytoreductive surgery and intraperitoneal chemotherapy for colorectal peritoneal carcinomatosis: Prognosis and treatment of recurrences in a cohort study. *European Journal of Surgical Oncology* 2012, 38 (6) 509-515.
175. Chen J, Jin X, Chen X, Liu H, Yan C, Zhang W, Zhu A. A modified percutaneous microwave ablation method for treatment of hepatocellular carcinoma: An observation on clinical therapeutic effects. *Academic Journal of Second Military Medical University* 2012, 33:8 872-875.
176. Chen W- J, Yuan S. -F, Yan Q-Y, Xiong J-P, Wang S. -M, Zheng W-E, Zhang W, Sun H-Y, Chen H, Wu L-L. Intrapleural chemo- and hyperthermotherapies for malignant pleural effusion: A randomized prospective study. *Cancer Investigation* 2012, 30 (2) 126-130.
177. Choi J, Raghavan M. Diagnostic imaging and image-guided therapy of skeletal metastases. *Cancer Control* 2012, 19 (2) 102-112.
178. Chopra R, Colquhoun A, Burtnek M, N'djin WA, Kobelevskiy I, Boyes A, Siddiqui K, Foster H, Sugar L, Haider MA, Bronskill M, Klötz L. MR imaging-controlled transurethral ultrasound therapy for conformational treatment of prostate tissue: Initial feasibility in humans. *Radiology* 2012, 265 (1) 303-313.
179. Chua TC, Chong CH, Morris DL. Peritoneal Mesothelioma. Current Status and Future Directions. *Surgical Oncology Clinics of North America* 2012, 21 (4) 635-643.
180. Chua TC, Moran B. J, Sugarbaker PH, Levine EA, Glehen O, Gilly FN, Baratti D, Deraco M, Elias D, Sardi A, Liauw W, Yan TD, Barrios P, Portilla AG, De Hingh IHJ, Ceelen WP, Pelz JO, Piso P, Gonzalez-Moreno S, Van Der Speeten K, Morris DL. Early- and long-term outcome data of patients with pseudomyxoma peritonei from appendiceal origin treated by a strategy of cytoreductive surgery and hyperthermic intraperitoneal chemotherapy. *Journal of Clinical Oncology* 2012, 30 (20) 2449-2456.
181. Clevert DA, Paprottka PM, Helck A, Reiser M, Trumm CG. Image fusion in the management of thermal tumor ablation of the liver. *Clinical Hemorheology and Microcirculation* 2012, 52 (2-4) 205-216.
182. Coldwell D, Sangro B, Salem R, Wasan H, Kennedy A. Radioembolization in the treatment of unresectable liver tumors: Experience across a range of primary cancers. *American Journal of Clinical Oncology: Cancer Clinical Trials* 2012, 35 (2) 167-177.
183. Cole KL, Choudry H. A, Jones HL, Goodell PP, Bartlett DL. Critical role of hyperthermic intraperitoneal chemoperfusion in the treatment of a patient with Pseudomyxoma peritonei. *Journal of Surgical Oncology* 2012, 106 (4) 513-516.
184. Cui X-B, Yu Z-Y, Wang W, Zheng Y-Q, Liu W, Li L-X. Co-inhibition of HSP70/HSP90 synergistically sensitizes nasopharyngeal carcinoma cells to thermotherapy. *Integrative Cancer Therapies* 2012, 11 (1) 61-67.
185. Davar D, Tarhini A. A, Kirkwood JM. Adjuvant therapy for melanoma. *Cancer Journal* 2012, 18 (2) 192-202.
186. De Bree E, Helm CW. Hyperthermic intraperitoneal chemotherapy in ovarian cancer: Rationale and clinical data. *Expert Review of Anticancer Therapy* 2012, 12 (7) 895-911.
187. De Jong MA. A, Oldenburg S, Bing Oei S, Griesdoorn V, Kolff MW, Koning C. C. E, Van Tienhoven G. Reirradiation and hyperthermia for radiation-associated sarcoma. *Cancer* 2012, 118 (1) 180-187.
188. De Mestier L, Volet J, Scaglia E, Msika S, Kianmanesh R, Bouche O. Is palliative laparoscopic hyperthermic intraperitoneal chemotherapy effective in patients with malignant hemorrhagic ascites?. *Case Reports in Gastroenterology* 2012, 6 (1) 166-170.
189. De Smet L, Colin P, Ceelen W, Bracke M, Van Bocxlaer J, Remon JP, Vervaeke C. Development of a nanocrystalline paclitaxel formulation for hiepc treatment. *Pharmaceutical Research* 2012, 29 (9) 2398-2406.
190. Dellaportas D, Kairi-Vassilatou E, Lykoudis P, Mavrigiannaki P, Mellou S, Kleanthis CK, Kondi-Pafiti A. Peritoneal mesotheliomas mimicking adnexal tumors. Clinicopathological characteristics of four cases and a short literature review. *European Journal of Gynaecological Oncology* 2012, 33 (1) 101-104.
191. Deraco M, Virzi S, Iusco D. R, Puccio F, MacRi A, Famulari C, Solazzo M, Bonomi S, Grassi A, Baratti D, Kusamura S. Secondary cytoreductive surgery and hyperthermic intraperitoneal chemotherapy for recurrent epithelial ovarian cancer: A multi-institutional study. *BJOG: An International Journal of Obstetrics and Gynaecology* 2012, 119 (7) 800-808.

- 192.Desgranges F-P, Steghens A, Rosay H, Meeus P, Stoian A, Daunizeau A-L, Pouderoux-Martin S, Piriou V. Epidural analgesia for surgical treatment of peritoneal carcinomatosis: A risky technique?. *Annales Francaises d'Anesthesie et de Reanimation* 2012, 31 (1) 53-59.
- 193.Di Miceli D, Alfieri S, Caprino P, Menghi R, Quero G, Cina C, Pericoli Ridolfini M, Doglietto GB. Complications related to hyperthermia during hyperthermic intraoperative intraperitoneal chemotherapy (HIPEC) treatment. Do they exist?. *European Review for Medical and Pharmacological Sciences* 2012, 16 (6) 737-742.
- 194.Duckworth KE, McQuellon RP, Russell GB, Cashwell CS, Shen P, Stewart IV JH, Levine EA. Patient rated outcomes and survivorship following cytoreductive surgery plus hyperthermic intraperitoneal chemotherapy (CS+HIPEC). *Journal of Surgical Oncology* 2012, 106 (4) 376-380.
- 195.Elias D, Quenet F, Goere D. Current Status and Future Directions in the Treatment of Peritoneal Dissemination from Colorectal Carcinoma. *Surgical Oncology Clinics of North America* 2012, 21 (4) 611-623.
- 196.Elias D. Is intraperitoneal chemotherapy after cytoreductive surgery efficient? Knowing whether it is or not appears secondary!. *Annals of Surgical Oncology* 2012, 19 (1) 5-6.
- 197.Epelman S. Preserving vision in retinoblastoma through early detection and intervention. *Current Oncology Reports* 2012, 14 (2) 213-219.
- 198.Eppink B, Krawczyk PM, Stap J, Kanaar R. Hyper-thermia-induced DNA repair deficiency suggests novel therapeutic anti-cancer strategies. *International Journal of Hyperthermia* 2012, 28 (6) 509-517.
- 199.Estevanato LLC, Da Silva JR, Falqueiro AM, Mosiniewicz-Szablewska E, Suchocki P, Tedesco AC, Morais PC, Lacava ZGM. Co-nanoencapsulation of magnetic nanoparticles and selol for breast tumor treatment: In vitro evaluation of cytotoxicity and magnetohyperthermia efficacy. *International Journal of Nanomedicine* 2012, 7 5287-5299.
- 200.Facchiano E, Risio D, Kianmanesh R, Msika S. Laparoscopic hyperthermic intraperitoneal chemotherapy: Indications, aims, and results: A systematic review of the literature. *Annals of Surgical Oncology* 2012, 19 (9) 2946-2950.
- 201.Faddegon S, Cadeddu JA. Does Renal Mass Ablation Provide Adequate Long-term Oncologic Control?. *Urologic Clinics of North America* 2012, 39 (2) 181-190.
- 202.Fitzgerald A, Berentson-Shaw J. RE: Breast thermography review. *New Zealand Medical Journal* 2012, 125 (1) 354 107-109.
- 203.Fong ZV, Palazzo F, Needleman L, Brown DB, Eschelman D. J, Chojnacki KA, Yeo C. J, Rosato EL. Combined hepatic arterial embolization and hepatic ablation for unresectable colorectal metastases to the liver. *American Surgeon* 2012, 78 (1) 1243-1248.
- 204.Francescutti V, Skitzki J. J. Sarcomas and the Immune System: Implications for Therapeutic Strategies. *Surgical Oncology Clinics of North America* 2012, 21 (2) 341-355.
- 205.Francis JH, Gobin YP, Brodie SE, Marr BP, Dunkel IJ, Abramson DH. Experience of intra-arterial chemosurgery with single agent carboplatin for retinoblastoma. *British Journal of Ophthalmology* 2012, 96:9 1270-1271.
- 206.Furdova A, Strmen P, Waczulikova I, Chorvath M, Miron S, Slezak P. One-day session LINAC-based stereotactic radiosurgery of posterior uveal melanoma. *European Journal of Ophthalmology* 2012, 22 (2) 226-235.
- 207.Gaertner E. M, Switlyk SA. Cutaneous granulomatous vasculitis associated with chronic lymphocytic leukemia: Case report and review of literature of a rare entity. *Dermatology Online Journal* 2012, 18 (3) 12.
- 208.Gamblin TC, Alexander H. R, Edwards R, Bartlett DL. Concepts of regional therapies for advanced malignancy. *Annals of Surgical Oncology* 2012, 19:5 1371-1372.
- 209.Gao F, Yan Z, Zhou J, Cai Y, Tang J. Metho- trexate-conjugated magnetic nanoparticles for thermochemotherapy and magnetic resonance imaging of tumor. *Journal of Nanoparticle Research* 2012, 14 (1) Article Number: 1160.
- 210.Gao L-Z, Gao E-M, Bai Y-F, Su H-L, Liu D-L, Huang Y-K, Zhang F, Ge M-Q. A comparative study of hyperthermic intraperitoneal chemoperfusion plus high-frequency diathermic therapy followed by intravenous chemotherapy versus intravenous chemotherapy alone after radical operation of gastrointestinal cancer. *Tumor* 2012, 32 (1) 65-69.
- 211.Gao Z, Zhang L, Sun Y. Nanotechnology applied to overcome tumor drug resistance. *Journal of Controlled Release* 2012, 162 (1) 45-55.
- 212.Garcia-Matus R, Hernandez-Hernandez CA, Leyva-Garcia O, Vasquez-Ciriaco S, Flores-Ayala G, Navarro-Hernandez Q, Perez-Bustamante G, Valencia-Mijares NM, Esquivel J. Cytoreductive surgery and hyperthermic intraperitoneal chemotherapy in the treatment of peritoneal carcinomatosis: Initial experience in Oaxaca, Mexico. *American Surgeon* 2012, 78 (9) 942-946.
- 213.Gillams A. Ablation of lung tumours. *Cancer Imaging* 2012, 12 (2) 361-362.
- 214.Gish R. G, Lencioni R, Di Bisceglie AM, Raoul J-L, Mazzaferro V. Role of the multidisciplinary team in the diagnosis and treatment of hepatocellular carcinoma. *Expert Review of Gastroenterology and Hepatology* 2012, 6 (2) 173-185.
- 215.Glockzin G, Piso P. Current Status and Future Directions in Gastric Cancer with Peritoneal Dissemination. *Surgical Oncology Clinics of North America* 2012, 21 (4) 625-633.
- 216.Godfrey M. E. Breast thermography review. *New Zealand Medical Journal* 2012, 125 (1) 354 105-107.
- 217.Goldstraw MA, Nicol DL. Renal cell carcinoma: The management of the small renal mass. *British Journal of Medical and Surgical Urology* 2012, 5 (6) 312-321.
- 218.Golse N, Bakrin N, Passot G, Mohamed F, Vaudoyer D, Gilly F-N, Glehen O, Cotte E. Iterative procedures combining cytoreductive surgery with hyperthermic intraperitoneal chemotherapy for peritoneal recurrence: Postoperative and long-term results. *Journal of Surgical Oncology* 2012, 106 (2) 197-203.
- 219.Goslin B, Sevak S, Siripong A, Onesti J, Wright G. P, Melnik M, Chung M. Outcomes of cytoreduction with hyperthermic intraperitoneal chemotherapy: Our experience at a midwest community hospital. *American Journal of Surgery* 2012, 203 (3) 383-387.
- 220.Grabelius F, Stylianou E, Umutlu L, Sheu S-Y, Lehmann N, Taeger G, Lauenstein TC. Size-based clinical response evaluation is insufficient to assess clinical response of sarcomas treated with isolated limb perfusion with tnfr(alpha) and melphalan. *Annals of Surgical Oncology* 2012, 19(11) 3375-3385.
- 221.Gravina GL, Tombolini V, Staso MD, Franzese P, Bonfili P, Gennarelli A, Nicola LD, Masciocchi C, Di Cesare E. Advances in imaging and in non-surgical salvage treatments after radiorecurrence in prostate cancer: What does the oncologist, radiotherapist and radiologist need to know?. *European Radiology* 2012, 22 (12) 2848-2858.
- 222.Graziosi L, Mencarelli A, Renga B, Santorelli C, Cantarella F, Bugiantella W, Cavazzoni E, Donini A, Fiorucci S. Gene expression changes induced by HIPEC in a murine model of gastric cancer. *In Vivo* 2012, 26 (1) 39-45.
- 223.Gu Y, Li G, Zhang J, Zhang Y. Diocetophyma renale infection masquerading as a malignancy. *Kidney International* 2012, 82 (12) 1342.
- 224.Guan W, Bai J, Liu J, Wang S, Zhuang Q, Ye Z, Hu Z. Microwave ablation versus partial nephrectomy for small renal tumors: Intermediate-term results. *Journal of Surgical Oncology* 2012, 106 (3) 316-321.
- 225.Haas A. R, Sterman DH. Novel intrapleural therapies for malignant diseases. *Respiration* 2012, 83 (4) 277-292.
- 226.Hachisuka J, Doi K, Furue M. Combination cryosurgery with hyperthermia in the management of skin metastasis from breast cancer: A case report. *International Journal of Surgery Case Reports* 2012, 3 (2) 68-69.
- 227.Hasovits C, Clarke S. Pharmacokinetics and pharmacodynamics of intraperitoneal cancer chemotherapeutics. *Clinical Pharmacokinetics* 2012, 51 (4) 203-224.
- 228.Heath JA, Oh LJ, Clarke NE, Wolfe J. Com. *Journal of Palliative Medicine* 2012, 15 (1) 1218-1221.

- 229.Heijkoop ST, Franckena M, Thomeer MGJ, Boere IA, Van Montfort C, Van Doorn HC. Neoadjuvant chemotherapy followed by radiotherapy and concurrent hyperthermia in patients with advanced-stage cervical cancer: A retrospective study. *International Journal of Hyperthermia* 2012, 28 (6) 554-561.
- 230.Helm C. W. Current Status and Future Directions of Cyto-reductive Surgery and Hyperthermic Intraperitoneal Chemotherapy in the Treatment of Ovarian Cancer. *Surgical Oncology Clinics of North America* 2012, 21 (4) 645-663.
- 231.Hooper PL, Hightower LE, Hooper PL. Loss of stress response as a consequence of viral infection: Implications for disease and therapy. *Cell Stress and Chaperones* 2012, 17 (6) 647-655.
- 232.Hua X-D, He Z-Y. Therapeutic effects of sorafenib combined with transcatheter arterial chemoembolization and microwave ablation on postsurgical recurrent hepatocellular carcinoma. *Chinese Journal of Oncology* 2012, 34 (1) 790-792.
- 233.Huang H-W, Liauh C-T. Review: Therapeutical applications of heat in cancer therapy. *Journal of Medical and Biological Engineering* 2012, 32 (1) 1-11.
- 234.Huang S, Deng G, Huang G, Li Y, Meng Y, Chen J. Efficacy of induction chemotherapy combined with concurrent chemoradiotherapy for advanced nasopharyngeal carcinoma. *Chinese Journal of Clinical Oncology* 2012, 39 (1) 1 788-791.
- 235.Jabir NR, Tabrez S, Md Ashraf G, Shakil S, Damanhour GA, Kamal MA. Nanotechnology-based approaches in anticancer research. *International Journal of Nanomedicine* 2012, 7: 4391-4408.
- 236.Jenne JW, Preusser T, Gunther M. High-intensity focused ultrasound: Principles, therapy guidance, simulations and applications. *Zeitschrift für Medizinische Physik* 2012, 22 (4) 311-322
- 237.Jiang G, Li L-T, Xin Y, Zhang L, Liu Y-Q, Zheng J-N. Strategies to improve the killing of tumors using temozolomide: Targeting the DNA repair protein MGMT. *Current Medicinal Chemistry* 2012, 19 (23) 3886-3892.
- 238.Jiang X, Chan H. C. Magnetic nanoparticles for treatment of gastric cancer. *Journal of Gastroenterology and Hepatology* 2012, 27 (2) 191-193.
- 239.Jones C, Gilmore J, Saleh M, Feinberg B, Kissner M, Simmons S. J. Therapeutic optimization of aromatase inhibitor-associated arthralgia: Etiology, onset, resolution, and symptom management in early breast cancer. *Community Oncology* 2012, 9 (3) 94-102.
- 240.Jones NB, Shah M. H, Bloomston M. Liver-directed therapies in patients with advanced neuroendocrine tumors. *JNCCN Journal of the National Comprehensive Cancer Network* 2012, 10 (6) 765-774.
- 241.Karadayi K, Turan M, Karadayi S, Alagozlu H, Kilickap S, Buyukcel A, Sarkis C, Yucel B, Boztosun A, Cetin M, Yilmaz A, Yanik A, Sen M. Cyto-reductive surgery followed by hyperthermic intraperitoneal chemotherapy: Morbidity and mortality analysis of our patients. *Türkiye Klinikleri Journal of Medical Sciences* 2012, 32 (1) 162-170. 2012
- 242.Khoei S, Azarian M, Khoei S. Effect of hyperthermia and triblock copolymeric nanoparticles as quercetin carrier on DU145 prostate cancer cells. *Current Nanoscience* 2012, 8 (5) 690-696.
- 243.Kickhefel A, Rosenberg C, Roland J, Viallon M, Gross P, Schick F, Hosten N, Salomir R. A pilot study for clinical feasibility of the near-harmonic 2D referenceless PRFS thermometry in liver under free breathing using MR-guided LITT ablation data. *International Journal of Hyperthermia* 2012, 28 (3) 250-266
- 244.Kleef R, Kekic S, Ludwig N. Successful treatment of advanced ovarian cancer with thermochemotherapy and adjuvant immune therapy. *Case Reports in Oncology* 2012, 5 (2) 212-215.
- 245.Kolaric D, Antonini S, Banic M, Nola I. A. Re: Digital infrared thermal imaging (DITI) of breast lesions: Sensitivity and specificity of detection of primary breast cancers. *Clinical Radiology* 2012, 67 (3) 295.
- 246.Konigsrainer I, Zieker D, Glatzle J, Lauk O, Klimek J, Symons S, Brucher B, Beckert S, Konigsrainer A. Experience after 100 patients treated with cytoreductive surgery and hyperthermic intraperitoneal chemotherapy. *World Journal of Gastroenterology* 2012, 18 (17) 2061-2066. 0507
- 247.Konopke R, Roth J, Volk A, Pistorius S, Folprecht G, Zoephel K, Schuetze C, Laniado M, Saeger H-D, Kersting S. Colorectal liver metastases: An update on palliative treatment options. *Journal of Gastrointestinal and Liver Diseases* 2012, 21 (1) 83-91.
- 248.Kontos M, Wilson R, Fentiman I. Re: Digital infrared thermal imaging (DITI) of breast lesions: Sensitivity and specificity of detection of primary breast cancers - A reply. *Clinical Radiology* 2012, 67 (3) 295-296.
- 249.Krane L. S, Kader A. K, Levine EA. Cytoreductive surgery with hyperthermic intraperitoneal chemotherapy for patients with peritoneal carcinomatosis secondary to urachal adenocarcinoma. *Journal of Surgical Oncology* 2012, 105 (3) 258-260.
- 250.Kroep JR. Advances in epithelial ovarian cancer therapy. *Current Pharmaceutical Design* 2012, 18 (2) 3735-3740.
- 251.Krpan AM, Ivankovic S, Krajina Z, Ivankovic D, Stojkovic R. Tamoxifen in trimodal therapy with cytotoxic drugs and hyperthermia in vivo significantly enhance therapeutic efficacy against B16-F10 melanoma. *Tumori* 2012, 98 (2) 257-263.
- 252.Ku JH, Lerner SP. Strategies to prevent progression of high-risk bladder cancer at initial diagnosis. *Current Opinion in Urology* 2012, 22 (5) 405-414.
- 253.Kuhn W. Clinical trials in elderly ovarian cancer patients- does it make sense?. *Onkologie* 2012, 35 (3) 73-74.
- 254.Kulshrestha P, Gogoi M, Bahadur D, Banerjee R. In vitro application of paclitaxel loaded magnetoliposomes for combined chemotherapy and hyperthermia. *Colloids and Surfaces B: Biointerfaces* 2012, 96: 1-7.
- 255.Kusamura S, Baratti D, Hutanu I, Rossi P, Deraco M. The Importance of the Learning Curve and Surveillance of Surgical Performance in Peritoneal Surface Malignancy Programs. *Surgical Oncology Clinics of North America* 2012, 21 (4) 559-576.
- 256.Laaperi E, Laaperi A-L, Strakowska M, Wiecek B, Przymusiala P. Cold provocation improves breast cancer detection with IR thermography- A pilot study. *Thermology International* 2012, 22 (4) 152-156.
- 257.Langlais S, Velazquez-Martin JP, Dube P, Simpson E. R, Leblanc G, Sideris L. Ocular melanoma in a patient successfully treated for diffuse malignant peritoneal mesothelioma: A case report. *World Journal of Surgical Oncology* 2012, 10 Article Number: 90.
- 258.Laternus JM, Jocham D, Sommerauer M. Recurrent bladder cancer after BCG instillation therapy. Local therapy options?. *Urologe - Ausgabe A* 2012, 51 (9) 1209-1219.
- 259.Lee K. F, Hui JW. Y, Cheung Y. S, Wong J. S. W, Chong C. N, Wong J, Yu S. CH, Lai P. B. S. Surgical ablation of hepatocellular carcinoma with 2. 45-GHz microwave: A critical appraisal of treatment outcomes. *Hong Kong Medical Journal* 2012, 18 (2) 85-91.
- 260.Lefemine V, Sweetland H. The role of surgeons in cancer management. *Surgery* 2012, 30 (4) 181-185.
- 261.Lencioni R, Crocetti L. Local-regional treatment of hepatocellular carcinoma. *Radiology* 2012, 262 (1) 43-58.
- 262.Lencioni R. Management of hepatocellular carcinoma with transarterial chemoembolization in the era of systemic targeted therapy. *Critical Reviews in Oncology/Hematology* 2012, 83 (2) 216-224.
- 263.Leveque M. K. A selective review of commonly used sonography-guided hyperthermic ablative technologies for malignant lesions of the liver. *Journal of Diagnostic Medical Sonography* 2012, 28 (3) 120-125.
- 264.Li C-T, Li J-L, Jia H, Wan W-B, Huang Y, Li J, Feng H, Wang Z- L, He P, Su L, Tang J. Value of ultrasound combined with thermal texture maps in diagnosis of breast cancer. *Chinese Journal of Medical Imaging Technology* 2012, 28 (8) 1525-1528.
- 265.Li H, Tian M-L, Yu G, Liu Y-C, Wang X, Zhang J, Ji S. -Q, Zhu J, Wan Y-L, Tang J-Q. Hyperthermia synergizes with tissue factor knockdown to suppress the growth and hepatic metastasis of colorectal cancer in orthotopic tumor model. *Journal of Surgical Oncology* 2012, 106 (6) 689-695.
- 266.Li Z, Mi D, Yang K, Cao N, Tian J, Ma B. TACE combined with thermotherapy for primary hepatic carcinoma: A meta-

- analysis. *Chinese Journal of Evidence-Based Medicine* 2012, 12 (6) 672-678. -
267. Liao G, Qu Y, Wang H, Liu P, Li L. Clinical research on continuous hyperthermic perfusion in the treatment of peritoneal effusion induced by gastric carcinoma. *Chinese Journal of Clinical Oncology* 2012, 39:8 452-454.
268. Linthorst M, Van Rhoon G. C, Van Geel A. N, Baaijens M, Ghiddey W, Broekmeyer-Reurink M. P, Van Der Zee J. The tolerance of reirradiation and hyperthermia in breast cancer patients with reconstructions. *International Journal of Hyperthermia* 2012, 28 (3) 267-277.
269. Livraghi T, Meloni F, Solbiati L, Zanusi G. Complications of microwave ablation for liver tumors: Results of a multicenter study. *CardioVascular and Interventional Radiology* 2012, 35 (4) 868-874.
270. Lu Q, Cao W, Huang L, Wan Y, Liu T, Cheng Q, Han Y, Li X. CT-guided percutaneous microwave ablation of pulmonary malignancies: Results in 69 cases. *World Journal of Surgical Oncology* 2012, 10 Article Number: 80.
271. Lv S. -Q, Song Y-C, Xu J-P, Shu H-F, Zhou Z, An N, Huang Q-L, Yang H. A novel TP53 somatic mutation involved in the pathogenesis of pediatric choroid plexus carcinoma. *Medical Science Monitor* 2012, 18 (5) CS37-CS41.
272. Maluccio M, Covey A. Recent progress in understanding, diagnosing, and treating hepatocellular carcinoma. *CA Cancer Journal for Clinicians* 2012, 62 (6) 394-399.
273. Maluta S, Dall'Oglio S, Palazzi M. Reirradiation: Hopes and concerns of the radiation oncologist. *Tumori* 2012, 98 (1) 172
274. Mancebo-Gonzalez A, Diaz-Carrasco M. S, Cascales-Campos P, De La Rubia A, Gil Martinez J. Cytoreductive surgery and hyperthermic intraperitoneal chemotherapy associated toxicity in treatment of peritoneal carcinomatosis. *Farmacia Hospitalaria* 2012, 36 (2) 60-67.
275. Marsh RDW, Alonzo M, Bajaj S, Baker M, Elton E, Farrell T. A, Gore RM, Hall C, Nowak J, Roy H, Shaikh A, Talamonti MS. Comprehensive review of the diagnosis and treatment of biliary tract cancer 2012. PART II: Multidisciplinary management. *Journal of Surgical Oncology* 2012, 106 (3) 339-345.
276. Martinez A, Ferron G, Mery E, Gladiéff L, Delord JP, Querleu D. Peritoneal pseudomyxoma arising from the urachus. *Surgical Oncology* 2012, 21 (1) 1-5.
277. Medina-Franco H, Zamora-Valdes D, Sanchez-Ramon A, Trejo-Gomez G. Glisson's capsule blistering after hyperthermic intraperitoneal chemotherapy. *Annals of Hepatology* 2012, 11 (1) 128-129.
278. Mehta M, Sethi S, Pushker N, Kashyap S, Sen S, Bajaj M. S, Ghose S. Retinoblastoma. *Singapore Medical Journal* 2012, 53 (2) 128-136.
279. Meloni MF, Andreano A, Franza E, Passamonti M, Lazzaroni S. Contrast enhanced ultrasound: Should it play a role in immediate evaluation of liver tumors following thermal ablation?. *European Journal of Radiology* 2012, 81 (8) e897-e902.
280. Meloni MF, Andreano A, Zimbaro F, Lava M, Lazzaroni S, Sironi S. Contrast enhanced ultrasound: Roles in immediate post-procedural and 24-h evaluation of the effectiveness of thermal ablation of liver tumors. *Journal of Ultrasound* 2012, 15 (4) 207-214.
281. Merckel LG, Van Den Bosch MAAJ. Imaging-guided breast cancer ablation. *Radiology* 2012, 265 (1) 322-323.
282. Mi D, Li Z, Yang K, Cao N, Tian J, Ma B. Thermo-chemotherapy of GP or TP for advanced non-small cell lung cancer: A systematic review. *Chinese Journal of Lung Cancer* 2012, 15 (8) 456-464. 2012
283. Mi Y, Liu X, Zhao J, Ding J, Feng S-S. Multimodality treatment of cancer with herceptin conjugated, thermomagnetic iron oxides and docetaxel loaded nanoparticles of biodegradable polymers. *Biomaterials* 2012, 33 (30) 7519-7529.
284. Mitsudo K, Koizumi T, Iida M, Iwai T, Oguri S, Yamamoto N, Itoh Y, Kioi M, Hirota M, Tohnai I. Thermochemoradiation therapy using superselective intra-arterial infusion via superficial temporal and occipital arteries for oral cancer with N3 cervical lymph node metastases. *International Journal of Radiation Oncology Biology Physics* 2012, 83 (5) e639-e645.
285. Mizushima Y, Yamaguchi R, Yokoyama T, Ogo E, Nakashima O. Recurrence of invasive micropapillary carcinoma of the breast with different ultrasound features according to lesion site: Case report. *Kurume Medical Journal* 2012, 58 (3) 81-85. 0424
286. Mohit E, Rafati S. Chemokine-based immunotherapy: Delivery systems and combination therapies. *Immunotherapy* 2012, 4 (8) 807-840.
287. Moskovitz B, Halachmi S, Moskovitz M, Nativ O, Nativ O. 10-year single-center experience of combined intravesical chemohyperthermia for nonmuscle invasive bladder cancer. *Future Oncology* 2012, 8 (8) 1041-1049.
288. Mulier S, Claes J-P, Dierieck V, Amiel J-O, Pahaut J-P, Marcelis L, Bastin F, Vanderbeeken D, Finet C, Cran S, Velu T. Survival benefit of adding hyperthermic intraperitoneal chemotherapy (HIPEC) at the different time-points of treatment of ovarian cancer: Review of evidence. *Current Pharmaceutical Design* 2012, 18 (25) 3793-3803.
289. Muller M, Cherel M, Dupre P-F, Gouard S, Collet M, Classe J-M. The cytotoxic effect of combined hyperthermia and taxane chemotherapy on ovarian cancer cells: Results of an in vitro study. *European Surgical Research* 2012, 48 (2) 55-63.
290. Munireddy S, Katz S, Somasundar P, Espat NJ. Thermal tumor ablation therapy for colorectal cancer hepatic metastasis. *Journal of Gastrointestinal Oncology* 2012, 3 (1) 69-77.
291. Na CR, Wang S, Kirsner RS, Federman DG. Elderly adults and skin disorders: Common problems for nondermatologists. *Southern Medical Journal* 2012, 105 (11) 600-606.
292. Nano R, Lascialfari A, Corti M, Paolini A, Pasi F, Corbella F, Di Liberto R. New frontiers for astrocytic tumours. *Anticancer Research* 2012, 32 (7) 2755-2758.
293. Nduom E. K, Bouras A, Kaluzova M, Hadjipanayis CG. Nanotechnology Applications for Glioblastoma. *Neurosurgery Clinics of North America* 2012, 23 (3) 439-449.
294. Ohguri T, Imada H, Yahara K, Moon S. D, Yamaguchi S, Yatera K, Mukae H, Hanagiri T, Tanaka F, Korogi Y. Re-irradiation plus regional hyperthermia for recurrent non-small cell lung cancer: A potential modality for inducing long-term survival in selected patients. *Lung Cancer* 2012, 77:1 140-145.
295. Olweny EO, Cadeddu JA. Novel methods for renal tissue ablation. *Current Opinion in Urology* 2012, 22 (5) 379-384.
296. Oosterlinck W, Decaestecker K. Current strategies in the treatment of non-muscle-invasive bladder cancer. *Expert Review of Anticancer Therapy* 2012, 12 (8) 1097-1106.
297. O'Reilly MA, Hynynen K. Ultrasound enhanced drug delivery to the brain and central nervous system. *International Journal of Hyperthermia* 2012, 28 (4) 386-396.
298. Osterweil N. HILP chemotherapy averts in-transit cases recurring out-of-field. *Oncology Report* 2012, : April 2012
299. Palefsky J, Berry JM, Jay N. Anal cancer screening. *The Lancet Oncology* 2012, 13:7 e279-e280.
300. Passot G, Vaudoyer D, Cotte E, You B, Isaac S, Noel Gilly F, Mohamed F, Glehen O. Progression following neoadjuvant systemic chemotherapy may not be a contraindication to a curative approach for colorectal carcinomatosis. *Annals of Surgery* 2012, 256 (1) 125-129.
301. Pereira PL, Salvatore M. Standards of practice: Guidelines for thermal ablation of primary and secondary lung tumors. *CardioVascular and Interventional Radiology* 2012, 35 (2) 247-254
302. Perez Lopez S, Partal Lorente A. B, Campos Pinel M. J, Pallares Ayuso C, Alcalde Perez D, Mena Ramirez T, Torres Marti JM. Krukenberg tumor secondary to carcinoma of the colon during pregnancy. *Progresos de Obstetricia y Ginecologia* 2012, 55 (3) 121-124.
303. Pfannenberger C, Schwenzer N. F, Bruecher B. L. State-of-the-art imaging of peritoneal carcinomatosis. *RoFo Fortschritte auf dem Gebiet der Rontgenstrahlen und der Bildgebenden Verfahren* 2012, 184 (3) 205-213.
304. Pua BB, Solomon SB. Ablative therapies in adrenal tumors: Primary and metastatic. *Journal of Surgical Oncology* 2012, 106:5 626-631.
305. Pua U. Transmitted water pump vibration precluding intra-procedural electrocardiographic monitoring in juxtacardiac mi-

crowave ablation of liver tumor. *Journal of Vascular and Interventional Radiology* 2012, 23:6 847-848.

306.Pundir A. R, Wankhade RP, Bhalerao S. S. Microspheres: Novel approach for cancer targeting. *International Journal of Pharmacy and Technology* 2012, 4 (2) 2034-2054.

307.Qian G-J, Wang N, Shen Q, Sheng Y. H, Zhao J-Q, Kuang M, Liu G- J, Wu M-C. Efficacy of microwave versus radio- frequency ablation for treatment of small hepatocellular carcinoma: Experimental and clinical studies. *European Radiology* 2012, 22 (9) 1983-1990.

308.Rabow MW, Lee MX. Palliative Care in Castrate-Resistant Prostate Cancer. *Urologic Clinics of North America* 2012, 39 (4) 491-503.

309.Ramishetti S, Huang L. Intelligent design of multifunctional lipid-coated nanoparticle platforms for cancer therapy. *Therapeutic Delivery* 2012, 3 (12) 1429-1445.

310.Ranganathan R, Madanmohan S, Kesavan A, Baskar G, Krishnamoorthy YR, Santosham R, Ponraju D, Rayala SK, Venkatraman G. Nanomedicine: Towards development of patient- friendly drug-delivery systems for oncological applications. *International Journal of Nanomedicine* 2012, 7: 1043-1060

311.Raspe C, Piso P, Wiesenack C, Bucher M. Anesthetic management in patients undergoing hyperthermic chemotherapy. *Current Opinion in Anaesthesiology* 2012, 25 (3) 348-355.

312.Ray A, Gombos DS. Retinoblastoma: An overview. *Indian Journal of Pediatrics* 2012, 79 (7) 916-921.

313.Ren K, Wu S, Shi X, Zhao J, Liu X. Primary clavicle tumors and tumorous lesions: A review of 206 cases in East Asia. *Archives of Orthopaedic and Trauma Surgery* 2012, 132 (6) 883-889.

314.Rothfield KP, Crowley K. Anesthesia Considerations During Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy. *Surgical Oncology Clinics of North America* 2012, 21 (4) 533-541.

315.Rubino M. S, Abdel-Misih R. Z, Bennett J. J, Petrelli N. J. Peritoneal surface malignancies and regional treatment: A review of the literature. *Surgical Oncology* 2012, 21 (2) 87-94.

316.Sakurai T, Hara M, Kawamata R, Kozai Y, Innami H. A basic in vitro study on effective conservative combined therapy for malignant tumors. *Oral Radiology* 2012, 28 (1) 48-54.

317.Salani R, Bristow R. E. Surgical management of epithelial ovarian cancer. *Clinical Obstetrics and Gynecology* 2012, 55 (1) 75-95.

318.Sarin YK, Bhatnagar SN. Extracranial malignant germ cell tumors. *Indian Journal of Pediatrics* 2012, 79 (7) 928-935.

319.Schroeder C, Gani C, Lamprecht U, Von Weyhern CH, Weinmann M, Bamberg M, Berger B. Pathological complete response and sphincter-sparing surgery after neoadjuvant radiochemotherapy with regional hyperthermia for locally advanced rectal cancer compared with radiochemotherapy alone. *International Journal of Hyperthermia* 2012, 28 (8) 707-714.

320.Scott B. Evaluation of thermography as a screening and diagnostic tool for breast Cancer. *New Zealand Medical Journal* 2012, 125 (1)351 11-12.

321.Sharma A, Abtin F, Shepard JAO. Image-Guided Ablative Therapies for Lung Cancer. *Radiologic Clinics of North America* 2012, 50 (5) 975-999.

322.Sharquie KE, Noaimi AA. Basal cell carcinoma: Topical therapy versus surgical treatment. *Journal of the Saudi Society of Dermatology and Dermatologic Surgery* 2012, 16 (2) 41-51.

323.Shen Q, Wang N, Sheng Y-H, Qian G-J. Microwave ablation using high power output for the treatment of hepatocellular carcinoma located near the large vessels: Initial results in 33 cases. *Journal of Interventional Radiology China* 2012, 21 (5) 391-394.

324.Sheth G. R, Cranmer LD, Smith B. D, Grasso-LeBeau L, Lang J. E. Radiation-induced sarcoma of the breast: A systematic review. *Oncologist* 2012, 17 (3) 405-418.

325.Shi X-Y, Zhou T-C, Lin X-D. Comparison of chemo- radiation combined with hyperthermia therapy and chemoradiation therapy alone in invasive cervical cancer: a perspective randomized controlled study. *Journal of Practical Oncology* 2012, 27 (4) 386-390.

326.Shiina S, Tateishi R, Imamura M, Teratani T, Koike Y, Sato S, Obi S, Kanai F, Kato N, Yoshida H, Omata M, Koike K. Percutaneous ethanol injection for hepatocellular carcinoma: 20-year outcome and prognostic factors. *Liver International* 2012, 32 (9) 1434-1442.

327.Sommariva A, Pilati P, Rossi CR. Cyto-reductive Surgery combined with Hyperthermic Intra-Peritoneal Chemotherapy for Peritoneal Surface Malignancies: Current treatment and results. *Cancer Treatment Reviews* 2012, 38 (4) 258-268.

328.Spencer R, Beaumont E. C, Del Carmen M, Growdon W, Goodman A. Acupuncture for chemotherapy-induced nausea and vomiting: A retrospective review of patients' experience at a single institution and a review of the literature. *Medical Acupuncture* 2012, 24 (2) 104-112.

329.Spiliotis J, Efstathiou E, Halkia E, Vaxevanidou A, Datsis A, Sugarbaker P. The influence of tumor cell entrapment phenomenon on the natural history of pseudomyxoma peritonei syndrome. *Hepato-Gastroenterology* 2012, 59 (115) 705-708.

330.Spiliotis J, Vaxevanidou A, Halkia E, Hadjigeorgiou G, Datsis A. Reoperation combining re-cytoreductive surgery and re-HIPEC for recurrent peritoneal carcinomatosis. *Journal of B. U. ON.* 2012, 17 (3) 522-525.

331.Srigley JR, Delahunt B, Evans AJ. Therapy-associated effects in the prostate gland. *Histopathology* 2012, 60:1 153-165.

332.Su X-M, Zhu Y- J, Zhang T, Wei D, Cheng P. Ultrasound-guided percutaneous microwave coagulation therapy for small hepatocellular carcinoma complicated by poor-grading liver function. *Journal of Interventional Radiology China* 2012, 21 (10) 825-828.

333.Sugarbaker PH, Ryan DP. Cytoreductive surgery plus hyperthermic perioperative chemotherapy to treat peritoneal metastases from colorectal cancer: Standard of care or an experimental approach?. *The Lancet Oncology* 2012, 13:8 e362-e369.

334.Sugarbaker PH. Cytoreductive surgery plus hyperthermic perioperative chemotherapy for selected patients with peritoneal metastases from colorectal cancer: A new standard of care or an experimental approach?. *Gastroenterology Research and Practice* 2012, Article Number: 309417.

335.Sugarbaker PH. Early intervention for treatment and prevention of colorectal carcinomatosis. A plan for individualized care. *Surgical Oncology Clinics of North America* 2012, 21 (4) 689-703.

336.Sulyok I, Fleischmann E, Stift A, Roth G, Leberherz- Eichinger D, Kasper D, Spittler A, Kimberger O. Effect of preoperative fever-range whole-body hyperthermia on immunological markers in patients undergoing colorectal cancer surgery. *British Journal of Anaesthesia* 2012, 109:5 754-761.

337.Swallow C. J, Catton C. N. Improving Outcomes for Retroperitoneal Sarcomas: A Work in Progress. *Surgical Oncology Clinics of North America* 2012, 21 (2) 317-331.

338.Tarlan B, Kiratli H. Current treatment of choroidal melanoma. *Expert Review of Ophthalmology* 2012, 7 (2) 189-195.

339.Temming P, Lohmann D, Bornfeld N, Sauerwein W, Goercke SL, Eggert A. Current concepts for diagnosis and treatment of retinoblastoma in Germany: Aiming for safe tumor control and vision preservation. *Klinische Padiatrie* 2012, 224:6 339-347.

340.Tran E, Ma R, Paton K, Blackmore E, Pickles T. Outcomes of proton radiation therapy for peripapillary choroidal melanoma at the BC cancer agency. *International Journal of Radiation Oncology Biology Physics* 2012, 83 (5) 1425-1431.

341.Trinavarat A, Chiewvit P, Buaboonnam J, Sanpakit K, Atchaneyasakul L-O. Selective ophthalmic arterial infusion of chemotherapeutic drugs for recurrent retinoblastoma. *Journal of Pediatric Hematology/Oncology* 2012, 34:6 e218-e221.

342.Tsai T- J, Chouillard E. K, Gumbs A. A. Laparoscopic right hepatectomy with intrahepatic transection of the right bile duct. *Annals of Surgical Oncology* 2012, 19 (2) 467-468.

343.Tschoep-Lechner K, Drexler I, Hammer D, Neumann D, Pohla H, Sutter G, Noessner E, Issels R-D. Modified vaccinia virus Ankara delivers a robust surrogate marker for immune monitoring to sarcoma cells even if cells are being exposed to chemotherapy and heat treatment. *International Journal of Hyperthermia* 2012, 28 (1) 33-42.

344. Tsuchiya M, Otsuka Y, Maeda T, Ishii J, Tamura A, Kaneko H. Efficacy of laparoscopic surgery for recurrent hepatocellular carcinoma. *Hepato-Gastroenterology* 2012, 59 (117) 1333-1337.
345. Turaka K, Shields CL, Meadows A. T, Leahey A. Second malignant neoplasms following chemoreduction with carboplatin, etoposide, and vincristine in 245 patients with intraocular retinoblastoma. *Pediatric Blood and Cancer* 2012, 59 (1) 121-125.
346. Turner K, Alexander Jr. H. R. Cytoreduction and hyperthermic intraperitoneal chemotherapy for patients with peritoneal carcinomatosis dissemination from colorectal cancer. *Colorectal Cancer* 2012, 1 (2) 125-135.
347. Turrini O, Lambaudie E, Faucher M, Viret F, Blache JL, Houvenaeghel G, Delpero JR. Initial experience with hyperthermic intraperitoneal chemotherapy. *Archives of Surgery* 2012, 147 (10) 919-923.
348. Van Den Bosch J. B, Verhoef C, De Zande F. L. T-V, Bakker J, Erdmann W, Tenbrinck R. Isolated hypoxic liver perfusion with melfalan in humans and its anesthesiologic aspects. *Advances in Experimental Medicine and Biology* 2012, 737 127-132.
349. Van der Speeten K, Anthony Stuart O, Sugarbaker PH. Pharmacology of Perioperative Intraperitoneal and Intravenous Chemotherapy in Patients with Peritoneal Surface Malignancy. *Surgical Oncology Clinics of North America* 2012, 21 (4) 577-597.
350. van Loon K, Venook A. P. Metastatic colorectal cancer: A curable disease. *Oncology* 2012, 26 (3) 1-5.
351. Van Sweringen HL, Hanseman DJ, Ahmad SA, Edwards M. J, Sussman JJ. Predictors of survival in patients with high-grade peritoneal metastases undergoing cytoreductive surgery and hyperthermic intraperitoneal chemotherapy. *Surgery United States* 2012, 152 (4) 617-625.
352. Varan A, Kiratli H, Aydin B, Tarlan B, Poyraz CB, Akyuz C, Buyukpamukcu M. The treatment of retinoblastoma with four-drug regimen including cisplatin, etoposide, vincristine, and cyclophosphamide. *Pediatric Hematology and Oncology* 2012, 29:6 529-537.
353. Varma S, Myerson R, Moros E, Taylor M, Straube W, Zoberi I. Simultaneous radiotherapy and superficial hyperthermia for high-risk breast carcinoma: A randomised comparison of treatment sequelae in heated versus non-heated sectors of the chest wall hyperthermia. *International Journal of Hyperthermia* 2012, 28 (7) 583-590.
354. Vaupel PW, Kelleher DK. Blood flow and associated pathophysiology of uterine cervix cancers: Characterisation and relevance for localised hyperthermia. *International Journal of Hyperthermia* 2012, 28 (6) 518-527.
355. Vogl T. J, Marquardt F, Bechstein W, Trojan J, Naguib NNN, Gruber-Rouh T, Beeres M, Lee C. Interventional therapy of primary liver tumors. *Onkologie* 2012, 18 (7) 593-601.
356. Vogl TJ, Zangos S, Eichler K, Gruber-Rouh T, Hammerstingl RM, Trojan J, Weisser P. Radiological Diagnosis and intervention of cholangiocarcinomas (CC). *RoFo Fortschritte auf dem Gebiet der Röntgenstrahlen und der Bildgebenden Verfahren* 2012, 184 (1) 883-892.
357. Votanopoulos KI, Ithemelandu C, Shen P, Stewart JH, Russell GB, Levine EA. Outcomes of repeat cytoreductive surgery with hyperthermic intraperitoneal chemotherapy for the treatment of peritoneal surface malignancy. *Journal of the American College of Surgeons* 2012, 215 (3) 412-417.
358. Votanopoulos KI, Shen P, Stewart JH, Levine EA. Current Status and Future Directions in Appendiceal Cancer with Peritoneal Dissemination. *Surgical Oncology Clinics of North America* 2012, 21 (4) 599-609.
359. Wahajuddin, Arora S. Superparamagnetic iron oxide nanoparticles: Magnetic nanoplateforms as drug carriers. *International Journal of Nanomedicine* 2012, 7 3445-3471.
360. Wang D-Y, Li Z, Yang K. -H, Tian J-H, Zhang Q-N, Wang X-h. Radiotherapy combined with hyperthermia for locally-advanced non-small cell lung cancer: A systematic review. *Chinese Journal of Evidence-Based Medicine* 2012, 12 (10) 1203-1208.
361. Wang J, Yu J-C, Kang W-M, Ma Z-Q. Prognostic significance of intraoperative chemotherapy and extensive lymphadenectomy in patients with node-negative gastric cancer. *Journal of Surgical Oncology* 2012, 105 (4) 400-404.
362. Wang Y-S, Wang Y-Y, Jiang P, Ma J-J, Qu Z, Wang X-L, Li J-T, Jia X-F. Short-term outcomes of CyberKnife therapy for advanced high-risk tumors: A report of 160 cases. *Experimental and Therapeutic Medicine* 2012, 3 (4) 725-727.
363. Warschkow R, Tarantino I, Lange J, Muller SA, Schmied B. M, Zund M, Steffen T. Does hyperthermic intraoperative chemotherapy lead to improved outcomes in patients with ovarian cancer? A single center cohort study in 111 consecutive patients. *Patient Safety in Surgery* 2012, 6 (1) Article Number: 12.
364. Weber T, Roitman M, Link K. H. Current status of cytoreductive surgery with hyperthermic intraperitoneal chemotherapy in patients with peritoneal carcinomatosis from colorectal cancer. *Clinical Colorectal Cancer* 2012, 11 (3) 167-176.
365. West JK, Khaja MS, Ashraf M, Saad WE. Percutaneous and intra-operative tumor ablation. *Ultrasound Clinics* 2012, 7 (3) 377-397.
366. Westermann A, Mella O, Van Der Zee J, Jones EL, Van Der Steen-Banasik E, Koper P, Uitterhoeve A. L. J, De Wit R, Van Der Velden J, Burger C, Schem B-C, Van Der Wilt C, Dahl O, Prosnitz L. R, Van Tinteren H. Long-term survival data of triple modality treatment of stage IIB/IIIA cervical cancer with the combination of radiotherapy, chemotherapy and hyperthermia an update. *International Journal of Hyperthermia* 2012, 28 (6) 549-553.
367. Wolf F. J, Aswad B, Ng T, Dupuy D. E. Intraoperative microwave ablation of pulmonary malignancies with tumor permissivity feedback control: Ablation and resection study in 10 consecutive patients. *Radiology* 2012, 262 (1) 353-360.
368. Wu X-Y, Zhang Z-H, Jin Z-H, Wei H-M. Hyperthermia combined with cisplatin and docetaxel chemotherapy for advanced gastric cancer associated with ascites. *Chinese Journal of Cancer Prevention and Treatment* 2012, 19 (1) 72-73+75.
369. Xiong R, Ren Q, Tian X, Tang X. Clinical research on nedaplatin Combined with CHP in Treating Malignant Pleural Effusion. *Chinese Journal of Clinical Oncology* 2012, 39 (1) 9 1434-1436.
370. Xu H-X, Wang Y, Lu M-D, Liu L-N. Percutaneous ultrasound-guided thermal ablation for intrahepatic cholangiocarcinoma. *British Journal of Radiology* 2012, 85 (1) 016 1078-1084.
371. Xu W, Gu Y, Wang X-T, Xu H, Lu J, Zu M-H, Zhang Q-Q, Wang Y, Wan H-G. Percutaneous microwave coagulation therapy under contrast-enhanced grey-scale ultrasonography guidance combined with TACE for the treatment of hepatic metastatic carcinomas. *Journal of Interventional Radiology China* 2012, 21 (1) 0 821-824.
372. Yanase S, Nomura J, Matsumura Y, Kato H, Tagawa T. Hyperthermia enhances the antitumor effect of photodynamic therapy with ALA hexyl ester in a squamous cell carcinoma tumor model. *Photodiagnosis and Photodynamic Therapy* 2012, 9 (4) 369-375.
373. Yang F, Jin C, Subedi S, Lee CL, Wang Q, Jiang Y, Li J, Di Y, Fu D. Emerging inorganic nanomaterials for pancreatic cancer diagnosis and treatment. *Cancer Treatment Reviews* 2012, 38 (6) 566-579.
374. Yang H-W, Hua M-Y, Liu H-L, Huang C-Y, Wei K. -C. Potential of magnetic nanoparticles for targeted drug delivery. *Nanotechnology, Science and Applications* 2012, 5 (1) 73-86.
375. Yarovoy A. A, Magaramov DA, Bulgakova ES. The comparison of ruthenium brachytherapy and simultaneous transpupillary thermotherapy of choroidal melanoma with brachytherapy alone. *Brachytherapy* 2012, 11 (3) 224-229.
376. Yonemura Y, Li Y, Sugarbaker PH, Piso P. Peritoneal metastases. *Gastroenterology Research and Practice* 2012, Art. 695351. 2012
377. Yoshida M, Sato M, Yamamoto Y, Maehara T, Naohara T, Aono H, Sugishita H, Sato K, Watanabe Y. Tumor local chemotherapy using docetaxel-embedded magnetoliposomes: Interaction of chemotherapy and hyperthermia. *Journal of Gastroenterology and Hepatology* 2012, 27 (2) 406-411.
378. Yoshimura H, Tobita T, Kumakiri M, Sano K. Gustatory sweating in the submandibular region following neck dissection: A case with thermographic evaluation and review of the literature. *Journal of Oral and Maxillofacial Surgery* 2012, 70 (11) e667-e673.

- 379.Young E. E, Castle S. M, Gorbatiy V, Leveillee R. J. Comparison of safety, renal function outcomes and efficacy of laparoscopic and percutaneous radio frequency ablation of renal masses. *Journal of Urology* 2012, 187 (4) 1177-1182.
- 380.Yu Z, Zhang X, Ren P, Zhang M, Qian J. Therapeutic potential of irreversible electroporation in sarcoma. *Expert Review of Anticancer Therapy* 2012, 12 (2) 177-184.
- 381.Yuan Q, Wang Y, Jing X, Ding J, Du Z. Clinical value of microwave ablation in treating malignant liver tumors. *Chinese Journal of Clinical Oncology* 2012, 39 (1) 5 1104-1107.
- 382.Zagoria R. J, Childs D. D. Update on thermal ablation of renal cell carcinoma: Oncologic control, technique comparison, renal function preservation, and new modalities. *Current Urology Reports* 2012, 13 (1) 63-69.
- 383.Zangos S, Ulrich F, Eichler K, Vogl TJ. Bridging treatment prior to liver transplantation for hepatocellular carcinoma. *Viszeralmedizin: Gastrointestinal Medicine and Surgery* 2012, 28 (5) 317-323.
- 384.Zappa M, Abdel-Rehim M, Hentic O, Vullierme M-P, Ruszniewski P, Vilgrain V. Liver-directed therapies in liver metastases from neuroendocrine tumors of the gastrointestinal tract. *Targeted Oncology* 2012, 7 (2) 107-116.
- 385.Zdenkowski N, Chen S, Van Der westhuizen A, Ackland S. Curative strategies for liver metastases from colorectal cancer: A review. *Oncologist* 2012, 17 (2) 201-211.
- 386.Zhang C-G, Wang G-L, Mu S. -Q. Combination of percutaneous microwave coagulation therapy with TACE for treatment of colorectal liver metastases. *Chinese Journal of Interventional Imaging and Therapy* 2012, 9:6 415-418.
- 387.Zhang J-Y, Zhang X-D. Treatment progress of choroidal uveal melanoma. *International Eye Science* 2012, 12 (7) 1292-1294
- 388.Zhang K. -Q, Wei H-M, Lu Y-X. Efficacy of high-frequency hyperthermia combined with gemcitabine for treatment of advanced recurrent biliary tract cancer. *Chinese Journal of New Drugs* 2012, 21 (1) 4 1654-1657.
- 389.Zhao C, Dai C, Chen X. Whole-body hyperthermia combined with hyperthermic intraperitoneal chemotherapy for the treatment of stage IV advanced gastric cancer. *International Journal of Hyperthermia* 2012, 28 (8) 735-741.
- 390.Zhao Q, Wang L, Cheng R, Mao L, Arnold R. D, Howerth E. W, Chen Z. G, Platt S. Magnetic nanoparticle-based hyperthermia for head & neck cancer in mouse models. *Theranostics* 2012, 2 (1) 113-121.
- 391.Zheng X, Zhou F, Wu B, Chen W. R, Xing D. Enhanced tumor treatment using biofunctional indocyanine green-containing nanostructure by intratumoral or intravenous injection. *Molecular Pharmaceutics* 2012, 9 (3) 514-522.
- 392.Zhou W, Liu X, Ji J. More efficient NIR photothermal therapeutic effect from intracellular heating modality than extracellular heating modality: An in vitro study. *Journal of Nanoparticle Research* 2012, 14:9 Article Number: 1128.
- 393.Zhou W, Liu X, Zha X, Ding Q, Jiang Y, Wang S. Response. *Radiology* 2012, 265 (1) 323.
- 394.Zolciak-Siwinska A, Jonska-Gmyrek J, Staniaszek J, Piotrkowicz N, Michalski W. HDR brachytherapy combined with interstitial hyperthermia in locally advanced cervical cancer patients initially treated with concomitant radiochemotherapy: A phase I study. *International Journal of Hyperthermia* 2012, 28 (8) 715-720.
- 395.Pan L, Lian Z, Lan L. Investigation of Gender Differences in Sleeping Comfort at Different Environmental Temperatures. *Indoor and Built Environment* 2012, 21(6) 811-820.
- 396.Prado R, Ellis LZ, Gamble R, Funk T, Arbuckle HA, Bruckner AL. Collodion baby: An update with a focus on practical management. *Journal of the American Academy of Dermatology* 2012, 67(6) 1362-1374.
- 397.Laino L. Idiopathic dysesthesia, complex regional pain syndrome and video-thermography: A new tool for diagnosis?. *European Journal of Dermatology* 2012, 22(5) 700-701.
- 398.Symonds ME, Henderson K, Elvidge L, Bosman C, Sharkey D, Perkins AC, Budge H. Thermal imaging to assess age-related changes of skin temperature within the supraclavicular region co-locating with brown adipose tissue in healthy children. *Journal of Pediatrics* 2012, 161(5) 892-898.
- 399.Gan Y, Liu Y, Ding X, Pan N. Thermal sensation at index finger while applying external pressure at upper arm. *Journal of Thermal Biology* 2012, 37(7) 502-509.
- 400.Mayrovitz HN, Bernal M, Carson S. Gender differences in facial skin dielectric constant measured at 300 MHz. *Skin Research and Technology* 2012, 18:4 504-510.
- 401.Herschthal J, McLeod MP, Zaiac M. Management of ungual warts. *Dermatologic Therapy* 2012, 25(6) 545-550.
- 402.Try C, Messikh R, Elkhyat A, Aubin F, Humbert Ph. Use of oral oxybutynin at 7.5 mg per day in primary hyperhidrosis. *Revue Medicale de Liege* 2012, 67(10) 520-526.
- 403.Yang Y, Zhang L, Tang Y, Zhao Y, Su B, Fu P. Systemic sclerosis with thrombotic thrombocytopenia purpura and malignant hypertension. *Renal Failure* 2012, 34:9 1170-1172.
- 404.Murray AK, Moore TL, Richards H, Ennis H, Griffiths CEM, Herrick AL. Pilot study of intense pulsed light for the treatment of systemic sclerosis-related telangiectases. *British Journal of Dermatology* 2012, 167(3) 563-569.
- 405.Bayata S, Turel Ermertcan A. Thermotherapy in dermatology. *Cutaneous and Ocular Toxicology* 2012, 31(3) 235-240.
- 406.Tochigi M, Ochiai T, Mekata C, Nishiyama H, Anzawa K, Kawasaki M. Sporotrichosis of the face by autoinoculation in a patient undergoing tacrolimus treatment. *Journal of Dermatology* 2012, 39:9 796-798.
- 407.Penno A, Arumugam M, Antweiler G, Laubert T, Habermann J, Bruch H-P. Increase in skin surface temperature in spinal anesthesia. Predictive value for probability of surgical tolerance. *Anaesthesist* 2012, 61:9 770-776.
- 408.Wu X-P, Song J, Jiang T-P, An T-Z, Wang L-Z, Zhou S. Nursing care for patients with lower limb arteriosclerosis obliterans receiving endovascular treatment. *Journal of Interventional Radiology China* 2012, 21(8) 685-687.
- 409.Wood DG, Brown MB, Jones SA. Understanding heat facilitated drug transport across human epidermis. *European Journal of Pharmaceutics and Biopharmaceutics* 2012, 81(3) 642-649.
- 410.Li X, Zhang C, Hong Y, Zhang D, Wei H, Chen H-D, Gao X-H. Local hyperthermia treatment of extensive viral warts in Darier disease: A case report and literature review. *International Journal of Hyperthermia* 2012, 28(5) 451-455.
- 411.Takayama S, Takashima S, Okajima J, Watanabe M, Kamiya T, Seki T, Yamasaki M, Yaegashi N, Yambe T, Maruyama S. Development and clinical application of a precise temperature-control device as an alternate for conventional moxibustion therapy. *Evidence-based Complementary and Alternative Medicine* 2012, 2012 Article Number: 426829.
- 412.Gao XY, Chong CY, Zhang SP, Cheng KWE, Zhu B. Temperature and safety profiles of needle-warming techniques in acupuncture and moxibustion. *Evidence-based Complementary and Alternative Medicine* 2012, 2012 Art. Number: 168393.
- 413.Raith W, Litscher G, Sapetschnig I, Bauchinger S, Ziehenberger E, Muller W, Urlesberger B. Changes in body surface temperature during laser needle acupuncture in premature infants. *Deutsche Zeitschrift fur Akupunktur* 2012, 55(2) 5-9.
- 414.Vos P, De Cock P, Munde V, Petry K, Van Den Noortgate W, Maes B. The tell-tale: What do heart rate; skin temperature and skin conductance reveal about emotions of people with severe and profound intellectual disabilities?. *Research in Developmental Disabilities* 2012, 33:4 1117-1127.
- 415.Ma Y, Huo W, Hong Y-X, Chen H-D, Gao X-H. Successful clearance of facial common warts by local hyperthermia: Report of two cases. *Dermatologic Therapy* 2012, 25:4 386-388.
- 416.Vasquez-del-Mercado E, Arenas R, Padilla-Desgarenes C. Sporotrichosis. *Clinics in Dermatology* 2012, 30:4 437-443.
- 417.Oncel M, Sudam GS, Karabagli H, Kara I, Celik JB. Palmar skin temperature importance during transthoracic endoscopic sympathectomy for palmar hyperhidrosis. *Journal of Neurological Sciences* 2012, 29(2) 285-290.
- 418.Li F-L, Wang Y-F, Li X, Li F, Xu R, Chen J, Geng L, Li B. Characteristics and clinical managements of chronic skin ulcers based on Traditional Chinese Medicine. *Evidence-based Complementary and Alternative Medicine* 2012, 2012 Art. Number: 930192.

- 419.Liu M, Kauh SK. A study of the thermomechanical behavior of skin tissue in moxibustion using a mathematical method. *Medical Acupuncture* 2012, 24(2) 89-96.
- 420.Goto H, Lauletta Lindoso JA. Cutaneous and Mucocutaneous Leishmaniasis. *Infectious Disease Clinics of North America* 2012, 26(2) 293-307.
- 421.Lopez L, Robayo M, Vargas M, Velez ID. Thermoherapy. An alternative for the treatment of American cutaneous leishmaniasis. *Trials* 2012, 13 Article Number: 58.117
- 422.Cholewka A, Stanek A, Sieron A, Drzazga Z. Thermography study of skin response due to whole-body cryotherapy. *Skin Research and Technology* 2012, 18(2) 180-187.
- 423.Hug AM, Schmidts T, Kuhlmann J, Segger D, Fotopoulos G, Heinzerling J. Skin hydration and cooling effect produced by the Voltaren®(registered trademark) vehicle gel. *Skin Research and Technology* 2012, 18(2) 199-206.
- 424.Marvani A, Vierron E, Machet L, Giraudeau B, Halimi J-M, Boucaud A. Tolerance of low-frequency ultrasound sonophoresis: A double-blind randomized study on humans. *Skin Research and Technology* 2012, 18(2) 151-156.
- 425.Roustit M, Hellmann M, Cracowski C, Blaise S, Cracowski JL. Sildenafil increases digital skin blood flow during all phases of local cooling in primary Raynaud's Phenomenon. *Clinical Pharmacology and Therapeutics* 2012, 91(5) 813-819.
- 426.Darlenski R, Fluhr JW. Influence of skin type, race, sex, and anatomic location on epidermal barrier function. *Clinics in Dermatology* 2012, 30(3) 269-273.
- 427.Kida N, Sokabe T, Kashio M, Haruna K, Mizuno Y, Suga Y, Nishikawa K, Kanamaru A, Hongo M, Oba A, Tominaga M. Importance of transient receptor potential vanilloid 4 (TRPV4) in epidermal barrier function in human skin keratinocytes. *Pflügers Archiv European Journal of Physiology* 2012, 463(5) 715-725
- 428.Pauling JD, Shipley JA, Harris ND, McHugh NJ. Use of infrared thermography as an endpoint in therapeutic trials of Raynaud's phenomenon and systemic sclerosis. *Clinical and Experimental Rheumatology* 2012, 30(Suppl.71) S103-S115.
- 429.Hong HC-H, Lupin M, O'Shaughnessy KF. Clinical evaluation of a microwave device for treating axillary hyperhidrosis. *Dermatologic Surgery* 2012, 38(5) 728-735.
- 430.Finch J, Arenas R, Baran R. Fungal melanonychia. *Journal of the American Academy of Dermatology* 2012, 66(5) 830-841.
- 431.Ishibashi M, Numata Y, Tagami H, Aiba S. Successful treatment of cutaneous botryomycosis with a combination of minocycline and topical heat therapy. *Case Reports in Dermatology* 2012, 4(2) 114-118.
- 432.Tiwari AK, Tomar GS, Tayal S, Chadha M, Mukul Kapoor C. Anaesthetic significance and management of a child with neonatal purpura fulminans. *Indian Journal of Anaesthesia* 2012, 56(3) 283-286.
- 433.Inada SA, Kamiyama S, Akasaki I, Torii K, Furuhashi T, Amano H, Morita A. Development of an ultraviolet A1 light emitting diode-based device for phototherapy. *Open Dermatology Journal* 2012, 6(1) 13-24.
- 434.Petrofsky JS, Berk L, Alshammari F, Lee H, Hamdan A, Yim JE, Kodawala Y, Patel D, Nevgi B, Shetye G, Moniz H, Chen WT, Alshaharani M, Pathak K, Neupane S, Somanaboina K, Shenoy S, Cho S, Dave B, Desai R, Malthane S, Al-Nakhli H. The interrelationship between air temperature and humidity as applied locally to the skin: The resultant response on skin temperature and blood flow with age differences. *Medical Science Monitor* 2012, 18:4 CR201-CR208.
- 435.Lima A, Genderen MEV, Klijn E, Bakker J, Bommel JV. Peripheral vasoconstriction influences thenar oxygen saturation as measured by near-infrared spectroscopy. *Intensive Care Medicine* 2012, 38:4 606-611.
- 436.Machado-Moreira CA, Taylor NAS. Sudomotor responses from glabrous and non-glabrous skin during cognitive and painful stimulations following passive heating. *Acta Physiologica* 2012, 204:4 571-581.
- 437.Bussoletti C, Mastropietro F, Tolaini MV, Celleno L. Assessment of tolerability and efficacy of an anti-cellulite food supplement. *Journal of Applied Cosmetology* 2012, 30(2) 61-77.
- 438.Valkenburg AJ, Niehof SP, Van Dijk M, Verhaar EJM, Tibboel D. Skin conductance peaks could result from changes in vital parameters unrelated to pain. *Pediatric Research* 2012, 71:4 375-379.
- 439.Lynn AG, Gagnon D, Binder K, Boushel RC, Kenny GP. Divergent roles of plasma osmolality and the baroreflex on sweating and skin blood flow. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology* 2012, 302(5) R634-R642.
- 440.Ramam M, Pahwa P. Is cholinergic urticaria a seasonal disorder in some patients. *Indian Journal of Dermatology, Venereology and Leprology* 2012, 78(2) 190-191.
- 441.Belenky I, Margulis A, Elman M, Bar-Yosef U, Paun SD. Exploring channeling optimized radiofrequency energy: A review of radiofrequency history and applications in esthetic fields. *Advances in Therapy* 2012, 29(3) 249-266.
- 442.Sang H, Zheng XE, Zhou WQ, He W, Lv GX, Shen YN, Kong QT, Liu WD. A case of subcutaneous phaeohyphomycosis caused by *Cladosporium cladosporioides* and its treatment. *Mycoses* 2012, 55(2) 195-197.
- 443.Bader-Meunier B, Monnet D, Barnerias C, Halphen I, Lambot-Juhan K, Chalumeau M, Costedoat-Chalumeau N, Ribeil J-A, Bodemer C, Gherardi R. Thrombotic microangiopathy and purpura-like retinopathy as a rare presentation of juvenile dermatomyositis. *Pediatrics* 2012, 129(3) e821-e824.
- 444.Bharara M, Schoess J, Armstrong DG. Coming events cast their shadows before: Detecting inflammation in the acute diabetic foot and the foot in remission. *Diabetes/Metabolism Research and Reviews* 2012, 28(Suppl.1) 15-20.
- 445.Petrofsky J, Berk L, Alshammari F, Lee H, Hamdan A, Yim JE, Patel D, Kodawala Y, Shetye G, Chen W-T, Moniz H, Pathak K, Somanaboina K, Desai R, Dave B, Malthane S, Alshaharani M, Neupane S, Shenoy S, Nevgi B, Cho S, Al-Nakhli H. The effect of moist air on skin blood flow and temperature in subjects with and without diabetes. *Diabetes Technology and Therapeutics* 2012, 14(2) 105-116.
- 446.Avila S, Buono MJ. Priming of the sweat glands explains reflex sweating in the heat. *International Journal of Hyperthermia* 2012, 28(1) 19-23.
- 447.Boulton AJM. Diabetic foot - what can we learn from leprosy? Legacy of Dr Paul W. Brand. *Diabetes/Metabolism Research and Reviews* 2012, 28(Suppl.1) 3-7.
- 448.Ota R, Iwasawa MT, Ohkusu K, Kambe N, Matsue H. Maximum growth temperature test for cutaneous Mycobacterium chelonae predicts the efficacy of thermal therapy. *Journal of Dermatology* 2012, 39(2) 205-206.
- 449.Glaser DA, Coleman WP, Fan LK, Kaminer MS, Kilmer SL, Nossa R, Smith SR, O'Shaughnessy KF. A randomized, blinded clinical evaluation of a novel microwave device for treating axillary hyperhidrosis: The dermatologic reduction in underarm perspiration study. *Dermatologic Surgery* 2012, 38(2) 185-191.
450. Bavisar DT, Tamkhane CM, Maniyar AH, Jain DK. Carbon nanotubes: An emerging drug delivery tool in nanotechnology. *International Journal of Pharmacy and Pharmaceutical Sciences* 2012; 4 (Suppl.4)11-15.
451. Lindstedt F, Karshikoff B, Schalling M, Olgart Hoglund C, Ingvar M, Lekander M, Kosek E. Serotonin-1A Receptor Polymorphism (rs6295) Associated with Thermal Pain Perception. *PLoS ONE* 2012, 7(8) Article Number: e43221.
452. Joh JH, Kim JY, Baek S-H, Song J-G, Lee YM, Kim JU. Total intravenous anesthesia in a 10-month-old patient with congenital myotonic dystrophy undergoing endoscopic third ventriculostomy. *Korean Journal of Anesthesiology* 2012, 63(2) 169-172
453. Hofstra-Van Oostveen WA, De Weerd AW. Seizures, epilepsy, and circadian rhythms. *Sleep Medicine Clinics* 2012, 7(1) 99-104
- 454.Millet C, Roustit M, Blaise S, Cracowski J-L. Aging is associated with a diminished axon reflex response to local heating on the gaiter skin area. *Microvascular Research* (2012) 84:3 (356-361).
455. Blatteis CM. Age-dependent changes in temperature regulation - A mini review. *Gerontology* (2012) 58:4 (289-295).
456. Singler K, Heppner HJ. Characteristics of the geriatric emergency patient. How can pitfalls be avoided in the preclinical and clinical setting? *Notfall und Rettungsmedizin* 2012, 15(3) 255-264.

457. Aoyama Y, Kataoka T, Nakagawa S, Sakoda A, Ishimori Y, Mitsunobu F, Yamaoka K. Study on effects of thoron and thermal treatment for aging-related diseases in humans. *Iranian Journal of Radiation Research* (2012) 9:4 (221-229).
458. Deschasse G, Anquetil R, Steenpass V, Couturier P, Gavazzi G. Demented elderly are colder? Lower baseline body temperatures in elderly residing in long term care facilities. *European Geriatric Medicine* (2012) 3:1 (59-60).
459. Haber N, Khelili D, Martineau D, Dekimeche S, Szekely C, Lebon P. Delay in diagnosis of influenza virus in an elderly hospitalized patient: A fatal outcome. *Clinical Medicine Insights: Case Reports* (2012) 5 (5-8).
460. Maitta RW, Choate J, Emre SH, Luczycki SM, Wu Y.. Emergency ABO-incompatible liver transplant secondary to fulminant hepatic failure: Outcome, role of TPE and review of the literature. *Journal of Clinical Apheresis* 2012, 27(6) 320-329.
461. Goldberg SA, Metzger JC, Pepe PE.. Year in review 2011: Critical Care - Out-of-hospital cardiac arrest and trauma. *Critical Care* 2012, 16(6) Article Number: 247.
462. Kobus T, Bitz AK, Van Uden MJ, Lagemaat MW, Rothgang E, Orzada S, Heerschap A, Scheenen TWJ. In vivo (31)P MR spectroscopic imaging of the human prostate at 7 T: Safety and feasibility. *Magnetic Resonance in Medicine* 2012, 68(6) 1683-1695.
463. Bennett S.. Sepsis in the intensive care unit. *Surgery United Kingdom* 2012, 30(12) 673-678.
464. Tong Y, Yu Q, Leng Y.. Chinese herbal fomentation at the yongquan point (K1): A potential hypotensive regimen. *Journal of Alternative and Complementary Medicine* 2012, 18(12) 1168-1171.
465. Alongi S.. Reply to Letter: Increased mortality with early therapeutic hypothermia after cardiac arrest-A case study in allocation bias. *Resuscitation* 2012, 83(12) e223.
466. Dulloo AG, Montani J-P. Body composition, inflammation and thermogenesis in pathways to obesity and the metabolic syndrome: An overview. *Obesity Reviews* 2012, 13(Suppl.2) 1-5.
467. Spatafora S, Casarico A, Fandella A, Galetti C, Hurle R, Mazzini E, Niro C, Perachino M, Sanseverino R, Pappagallo GL.. Evidence-based guidelines for the treatment of lower urinary tract symptoms related to uncomplicated benign prostatic hyperplasia in Italy: Updated summary from AURO.it. *Therapeutic Advances in Urology* 2012, 4(6) 279-301.
468. O'Donnell CPF, Schmolzer GM.. Resuscitation of Preterm Infants: Delivery room interventions and their effect on outcomes. *Clinics in Perinatology* 2012, 39(4) 857-869.
469. Pasek J, Stanek A, Pasek T, Sieron A.. Physical medicine as an opportunity for improving the health state of patients with vascular diseases (angiopathies). *Acta Angiologica* 2012, 18(3) 93-98.
470. Christopher-Stine L, Robinson DR, Wu CC, Mark EJ.. Case 37-2012: A 21-year-old man with fevers, arthralgias, and pulmonary infiltrates. *New England Journal of Medicine* 2012, 367(2) 2134-2146.
471. Lahlou Z, Salimi S, Slaoui B, Dehbi F.. Recurrent febrile respiratory distress in infant: Which diagnosis?. *BMJ Case Reports* 2012, .
472. Inoue S, Takemoto M, Chishaki A, Ide T, Nishizaka M, Miyazono M, Sawatari H, Sunagawa K.. Leg heating using far infra-red radiation in patients with chronic heart failure acutely improves the hemodynamics, vascular endothelial function, and oxidative stress. *Internal Medicine* 2012, 51(17) 2263-2270.
473. Shinozaki K, Oda S, Sadahiro T, Nakamura M, Hirayama Y, Watanabe E, Tateishi Y, Nakanishi K, Kitamura N, Hirasawa H.. Duration of well-controlled core temperature correlates with neurological outcome in patients with post-cardiac arrest syndrome. *American Journal of Emergency Medicine* 2012, 30(9) 1838-1844.
474. Shridharani A, Lockwood G, Sandlow J.. Varicocelelectomy in the treatment of testicular pain: A review. *Current Opinion in Urology* 2012, 22(6) 499-506.
475. Frey JM, Janson M, Svanfeldt M, Svenarud PK, Van Der Linden JA.. Local insufflation of warm humidified CO2 increases open wound and core temperature during open colon surgery: A randomized clinical trial. *Anesthesia and Analgesia* 2012, 115(5) 1204-1211.
476. Vanattou-Saifoudine N, McNamara R, Harkin A.. Caffeine provokes adverse interactions with 3,4- methylenedioxymethamphetamine (MDMA, 'ecstasy') and related psychostimulants: Mechanisms and mediators. *British Journal of Pharmacology* 2012, 167(5) 946-959.
477. Mold JW, Holtzclaw BJ, McCarthy L.. Night sweats: A systematic review of the literature. *Journal of the American Board of Family Medicine* 2012, 25(6) 878-893.
478. Bukur M, Hadjibashi AA, Ley EJ, Malinoski D, Singer M, Barmparas G, Margulies D, Salim A.. Impact of prehospital hypothermia on transfusion requirements and outcomes. *Journal of Trauma and Acute Care Surgery* 2012, 73(5) 1195-1201.
479. Idei M, Yoshitani K, Maeda T, Onishi Y.. Effectiveness of underbody type forced-air warming blanket during endovascular aneurysm repair. *Japanese Journal of Anesthesiology* 2012, 61(1) 1230-1233.
480. Kang S-S, Park J-C, Hong S-J, Yoon Y-J, Shin K-M.. Percutaneous bipolar radiofrequency T3 sympathectomy in Raynaud's disease: A case report. *Korean Journal of Anesthesiology* 2012, 63(5) 461-464.
481. Mora-Rodriguez R, Aguado-Jimenez R, Del Coso J, Estevez E.. A standard blood bank donation alters the thermal and cardiovascular responses during subsequent exercise. *Transfusion* 2012, 52(1) 2339-2347.
482. Ramirez-Velez R, Garcia Sanchez A, Martinez Betancourt CJ, Parra Galeano CA, Ortega JG, Lopez Alban CA, Agredo Zuniga RA.. Effects of two methods of heat therapy on the acute vascular response and hemodynamics in healthy subjects. *Radio-logia* 2012, 54(6) 513-519.
483. Erbin A, Berberoglu AY, Sarilar O, Binbay M, Muslumanoglu AY.. Minimal invasive methods in the treatment of benign prostate hyperplasia. *Haseki Tip Bulteni* 2012, 50(3) 76-80.
484. Song M-x.. Transplantation of stem cells from different sources for treatment of diabetic foot. *Chinese Journal of Tissue Engineering Research* 2012, 16(2) 75118-5125.
485. Imbahale SS, Mukabana WR, Orindi B, Githeko AK, Takken W.. Variation in malaria transmission dynamics in three different sites in western kenya. *Journal of Tropical Medicine* 2012, Article Number: 912408.
486. Carroll IM, Ringel-Kulka T, Siddle JP, Klaenhammer TR, Ringel Y.. Characterization of the Fecal Microbiota Using High-Throughput Sequencing Reveals a Stable Microbial Community during Storage. *PLoS ONE* 2012, 7(10) Article Number: e46953.
487. Keogh BF, Alexander D.. Principles of cardiac anaesthesia. *Anaesthesia and Intensive Care Medicine* 2012, 13(10) 463-468.
488. Liu E, Shehata M, Liu T, Amorn A, Cingolani E, Kannarkat V, Chugh SS, Wang X.. Prevention of esophageal thermal injury during radiofrequency ablation for atrial fibrillation. *Journal of Interventional Cardiac Electrophysiology* 2012, 35(1) 35-44.
489. Valizadeh N, Jalaly NY, Hassanzadeh M, Kamani F, Dadvar Z, Azizi S, Salehimarziarani B.. Botulinum toxin injection versus lateral internal sphincterotomy for the treatment of chronic anal fissure: Randomized prospective controlled trial. *Langenbeck's Archives of Surgery* 2012, 397(7) 1093-1098.
490. Alameel T.. Is injecting absolute alcohol a safe and effective therapy for bleeding ulcers. *American Journal of Gastroenterology* 2012, 107(10) 1590-1591.
491. Falor AE, Zobel M, Kaji A, Neville A, De Virgilio C.. Admission variables predictive of gangrenous cholecystitis. *American Surgeon* 2012, 78(10) 1075-1078.
492. Ramos-Gonzalez E, Moreno-Lorenzo C, Mataran- Penarrocha GA, Guisado-Barrilao R, Aguilar-Ferrandiz ME, Castro- Sanchez AM. Comparative study on the effectiveness of myofascial release manual therapy and physical therapy for venous insufficiency in postmenopausal women. *Complementary Therapies in Medicine* 2012, 20(5) 291-298.
493. Hedna VS, Favilla CG, Guerrero WR, Patel A, Gottipati A, Bidari S, Beaver T, Waters MF.. Trends in the management of atrial fibrillation: A neurologist's perspective. *Journal of Cardiovascular Disease Research* 2012, 3(4) 255-264.
494. Akyol Y, Ulus Y, Durmus D, Canturk F, Bilgici A, Kuru O, Bek Y.. Effectiveness of microwave diathermy on pain, func-

- tional capacity, muscle strength, quality of life, and depression in patients with subacromial impingement syndrome: A randomized placebo-controlled clinical study. *Rheumatology International* 2012, 32(10) 3007-3016.
495. Sivanandam S, Anburajan M, Venkatraman B, Menaka M, Sharath D.. Medical thermography: A diagnostic approach for type 2 diabetes based on non-contact infrared thermal imaging. *Endocrine* 2012, 42(2) 343-351.
496. Korman P, Straburzynska-Lupa A, Romanowski W, Trafarski A.. Temperature changes in rheumatoid hand treated with nitrogen vapors and cold air. *Rheumatology International* 2012, 32(10) 2987-2992.
497. Jarvinen KM, Sicherer SH.. Diagnostic oral food challenges: Procedures and biomarkers. *Journal of Immunological Methods* 2012, 383(1-2) 30-38.
498. Orban J-C, Cattet F, Lefrant J-Y, Leone M, Jaber S, Constantin J-M, Allaouchiche B, Ichai C.. The Practice of Therapeutic Hypothermia after Cardiac Arrest in France: A National Survey. *PLoS ONE* 2012, 7(9) Article Number: e45284.
499. Pulford J, Mueller I, Siba PM, Hetzel MW.. Malaria case management in Papua New Guinea prior to the introduction of a revised treatment protocol. *Malaria Journal* 2012, 11 Article Number: 157.
500. Zierer A, Moritz A.. Cerebral Protection for Aortic Arch Surgery: Mild Hypothermia With Selective Cerebral Perfusion. *Seminars in Thoracic and Cardiovascular Surgery* 2012, 24(2) 123-126.
501. De Moya MA, Wong JT, Kroshinsky D, Robbins GK, Shenoy-Bhangle AS, Gimbel DC.. Case 28-2012: A 30-year-old woman with shock and abdominal-wall necrosis after cesarean section. *New England Journal of Medicine* 2012, 367(1) 1046-1057.
502. Daniluk J, Jurkowska G, Bandurski R, Swidnicka-Siergiejko A, Dabrowski A.. Pseudomyxoma peritonei - Diagnostic and therapeutic difficulties. Literature review and case report. *Przegląd Gastroenterologiczny* 2012, 7(3) 176-184.
503. Caffarelli C, Santamaria F, Cesari S, Di Giorgio A, Bernasconi S.. Progress in pediatrics in 2011.1 Choices in endocrinology, gastroenterology, hemato-oncology, infectious diseases, otolaryngology, pharmacotherapy and respiratory tract illnesses. *Italian Journal of Pediatrics* 2012, 38(1) Article Number: 23.
504. O'Keeffe AB, Terris J, Hormbrey P.. A sinister cause of back pain in a young man. *BMJ Online* 2012, 345(7) 873 Article Number: e3015.
505. Pettit SJ, Chaggar PS, Windsor JS.. Letter by Pettit et al regarding article, electrical heart activity recorded during prolonged avalanche burial. *Circulation* 2012, 126(10) e157.
506. Svensson H, Nilsson D, Björner L, Tufvesson E.. Exhaled breath temperature increases after exercise in asthmatics and controls. *Respiration* 2012, 84(4) 283-290.
507. Plante A, Ro E, Rowbottom JR.. Hemodynamic and Related Challenges. Monitoring and Regulation in the Post-operative Period. *Anesthesiology Clinics* 2012, 30(3) 527-554.
508. Sharma R, Anjum S, Mathur A, Prasad R.. An unusual mode of delivery. *Archives of Gynecology and Obstetrics* 2012, 286(3) 811-812.
509. Singh S, Nasa V, Tandon M.. Perioperative Monitoring in Liver Transplant Patients. *Journal of Clinical and Experimental Hepatology* 2012, 2(3) 271-278.
510. Neven K, Metzner A, Schmidt B, Ouyang F, Kuck K-H.. Balloon catheter position and its relationship with esophageal temperature during pulmonary vein isolation using high-intensity focused ultrasound. *Indian Pacing and Electrophysiology Journal* 2012, 12(5) 192-203.
511. Van Maanen JP, Ravesloot MJL, Witte BI, Grijsseels M, De Vries N.. Exploration of the relationship between sleep position and isolated tongue base or multilevel surgery in obstructive sleep apnea. *European Archives of Oto-Rhino-Laryngology* 2012, 269(9) 2129-2136.
512. Wanscher M, Agersnap L, Ravn J, Yndgaard S, Nielsen JF, Danielsen ER, Hassager C, Romner B, Thomsen C, Barnung S, Lorentzen AG, Hogenhaven H, Davis M, Møller JE.. Outcome of accidental hypothermia with or without circulatory arrest. Experience from the Danish Praesto Fjord boating accident. *Resuscitation* 2012, 83(9) 1078-1084.
513. Anter E, Callans DJ.. Surgical atrial fibrillation ablation: An electrophysiologist's perspective. *Cardiac Electrophysiology Clinics* 2012, 4(3) 395-402.
514. Christensen TM, Gade-Rasmussen B, Pedersen LW, Hommel E, Holstein PE, Svendsen OL.. Duration of off-loading and recurrence rate in Charcot osteo-arthritis treated with less restrictive regimen with removable walker. *Journal of Diabetes and its Complications* 2012, 26(5) 430-434.
515. Inoue H, Ishizuka O, Imamura T, Yamagishi T, Noguchi W, Yokoyama H, Kurizaki Y, Nishizawa O.. Relationship between Toe Temperature and Lower Urinary Tract Symptoms. *LUTS: Lower Urinary Tract Symptoms* 2012, 4(3) 144-149.
516. Voietta I, Andrade LM, Lambertucci JR. Chest helical computed tomography scan shows pulmonary micronodules and condensation in acute schistosomiasis mansoni. *Revista da Sociedade Brasileira de Medicina Tropical* 2012, 45(5) 659.
517. Leung PC, Pang SY, Wong ELY, Cheng KF.. Inflammatory state of Type II diabetic patients with chronic ulcers in response to herbal treatment. *Foot* 2012, 22(3) 181-185.
518. Hsieh R-L, Liao W-C, Lee W-C.. Local and systemic cardiovascular effects from monochromatic infrared therapy in patients with knee osteoarthritis: A double-blind, randomized, placebo-controlled study. *Evidence-based Complementary and Alternative Medicine* 2012, 2012 Article Number: 583016.
519. Koehn J, Kollmar R, Cimpianu C-L, Kallmunzer B, Moeller S, Schwab S, Hilz MJ.. Head and neck cooling decreases tympanic and skin temperature, but significantly increases blood pressure. *Stroke* 2012, 43(8) 2142-2148.
520. Suffoletto B, Kristan J, Rittenberger JC, Guyette F, Hostler D, Callaway C.. Near-infrared spectroscopy in post-cardiac arrest patients undergoing therapeutic hypothermia. *Resuscitation* 2012, 83(8) 986-990.
521. Yamagishi A, Toyama Y, Tobise F, Ichimiya T, Iwasaki H.. Usefulness of a noncontact continuous tympanic thermometer in patients undergoing cardiac surgery using an artificial heart-lung machine. *Japanese Journal of Anesthesiology* 2012, 61(8) 896-900.
522. Romano MA, Haft JW, Pagani FD, Bolling SF.. Beating heart surgery via right thoracotomy for reoperative mitral valve surgery: A safe and effective operative alternative. *Journal of Thoracic and Cardiovascular Surgery* 2012, 144(2) 334-339.
523. Van Genderen ME, Lima A, Akkerhuis M, Bakker J, Van Bommel J.. Persistent peripheral and microcirculatory perfusion alterations after out-of-hospital cardiac arrest are associated with poor survival. *Critical Care Medicine* 2012, 40(8) 2287-2294.
524. Jonsson A, Lehto M, Ahn H, Hermansson U, Linde P, Ahlsson A, Koistinen J, Savola J, Raatikainen P, Lepojarvi M, Sahlman A, Werkkala K, Toivonen L, Walfridsson H.. Micro-wave ablation in mitral valve surgery for atrial fibrillation (MAMA). *Journal of Atrial Fibrillation* 2012, 5(2).
525. McNicholas T, Kirby R.. Benign prostatic hyperplasia and male lower urinary tract symptoms. *American Family Physician* 2012, 86(4) 359-360.
526. Kaplan SA.. Re: The role of nocturia in the quality of life of men with lower urinary tract symptoms. *Journal of Urology* 2012, 188(2) 512-513.
527. Ahlsson A, Jideus L, Albage A, Kallner G, Holmgren A, Boano G, Hermansson U, Kimblad P-O, Schersten H, Sjogren J, Stahle E, Aberg B, Berglin E.. A Swedish consensus on the surgical treatment of concomitant atrial fibrillation. *Scandinavian Cardiovascular Journal* 2012, 46(4) 212-218.
528. Henne E, Anderson JC, Barry R, Kesten S.. Thermal effect of endoscopic thermal vapour ablation on the lung surface in human ex vivo tissue. *International Journal of Hyperthermia* 2012, 28(5) 466-472.
529. Usvyat LA, Raimann JG, Carter M, Van Der Sande FM, Kooman JP, Kotanko P, Levin NW.. Relation between trends in body temperature and outcome in incident hemodialysis patients. *Nephrology Dialysis Transplantation* 2012, 27(8) 3255-3263.
530. Carrera O, Adan RAH, Gutierrez E, Danner UN, Hoek HW, van Elburg AA, Kas MJH Hyperactivity in anorexia nervosa: Warming up not just burning-off calories. *PLoS ONE* 2012, 7(7) Article Number: e41851.

531. Mizumoto A, Canbay E, Hirano M, Takao N, Matsuda T, Ichinose M, Yonemura Y.. Morbidity and mortality outcomes of cytoreductive surgery and hyperthermic intraperitoneal chemotherapy at a single Institution in Japan. *Gastroenterology Research and Practice* 2012, Article Number: 836425.
532. Lee HC, An SG, Lee HW, Park J-S, Cha KS, Hong TJ, Park JH, Lee SY, Kim S-P, Kim YD, Chung SW, Bae YC, Shin YB, Kim JI, Jung JS.. Safety and effect of adipose tissue-derived stem cell implantation in patients with critical limb ischemia: - A pilot study -. *Circulation Journal* 2012, 76(7) 1750-1760.
533. Shao L, Zheng H, Jia F-J, Wang H-Q, Liu L, Sun Q, An M-Y, Zhang X-H, Wen H.. Methods of patient warming during abdominal surgery. *PLoS ONE* 2012, 7(7) Article Number: e39622.
534. Mansmann EH, Singh A.. Pulmonary thromboembolism presenting with abdominal symptoms. *American Journal of Case Reports* 2012, 13 137-139.
535. Lin C-T, Chan D-C, Yu J-C, Hsieh C-B.. Surgical treatment of sclerosing encapsulating peritonitis. *Pakistan Journal of Medical Sciences* 2012, 28(4).
536. Lim JY, Shim SB, Yoo DH, Park YW, Kim JY, Noh JH.. Therapeutic efficacy of bipolar radiofrequency thermotherapy for patients with chronic prostatitis: A retrospective analysis of 26 cases. *Korean Journal of Urology* 2012, 53(7) 497-501.
537. Kaushal N, Ramesh V, Gozal D. Human apolipoprotein E4 targeted replacement in mice reveals increased susceptibility to sleep disruption and intermittent hypoxia. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology* 2012, 303(1) R19-R29.120120701
538. MacDonald DRW, Maruthappu M, Nagendran M.. How effective is microwave ablation for atrial fibrillation during concomitant cardiac surgery?. *Interactive Cardiovascular and Thoracic Surgery* 2012, 15(1) 122-127.
539. Garcia-Villarreal OA.. EComment. Alternative energy sources in surgery for atrial fibrillation. *Interactive Cardiovascular and Thoracic Surgery* 2012, 15(1) 128.
540. Rahman S, Rubinstein S, Singh J, Samih M, Balsam L.. Early use of hemodialysis for active rewarming in severe hypothermia: A case report and review of literature. *Renal Failure* 2012, 34(6) 784-788.
541. De Greef Y, Tavernier R, Duytschaever M.. Sequelae after AF ablation: Efficacy and safety go hand in hand. *Indian Pacing and Electrophysiology Journal* 2012, 12(4) 171-179.
542. Yava A, Koyuncu A, Tosun N, Kilic S.. Effectiveness of local cold application on skin burns and pain after transthoracic cardioversion. *Emergency Medicine Journal* 2012, 29(7) 544-549
543. Mao J, Zhang C, Wang Z, Gan S, Li K.. A retrospective study comparing endovenous laser ablation and microwave ablation for great saphenous varicose veins. *European Review for Medical and Pharmacological Sciences* 2012, 16(7) 873-877.
544. Choudhuri AH, Khaitan M, Uppal R.. Laparoscopic cholecystectomy in a patient with Ebstein's anomaly: Anesthetic considerations. *Saudi Journal of Anaesthesia* 2012, 6(3) 301-302.
545. Dibai Filho AV, Packer AC, Costa ACDS, Berni-Schwarzenbeck KCDS, Rodrigues-Bigaton D. Assessment of the upper trapezius muscle temperature in women with and without neck pain. *Journal of Manipulative and Physiological Therapeutics* 2012, 35(5) 413-417.
546. Kam S-K, Lee W-S, Ou T-Y, Teng S-O, Chen F-L. Delftia acidovorans Bacteremia Associated with Ascending Urinary Tract Infections Proved by Molecular Method. *Journal of Experimental and Clinical Medicine* 2012, 4(3) 180-182.
547. Meng X-X, Dong W-H, Ye Z-Y, Wang Z, Liao H-Q, Liu S-Y, Xiao X-S.. The application of CT venography in interventional treatment of central vein stenosis or occlusion in hemodialysis patients. *Journal of Interventional Radiology China* 2012, 21(6) 465-468.
548. Yim J, Petrofsky J, Berk L, Daher N, Lohman E.. Differences in endothelial function between Korean-Asians and Caucasians. *Medical Science Monitor* 2012, 18(6) CR337-CR343
549. Fava A, Wung PK, Wigley FM, Hummers LK, Daya NR, Ghazarian SR, Boin F. Efficacy of Rho kinase inhibitor fasudil in secondary Raynaud's phenomenon. *Arthritis Care and Research* 2012, 64(6) 925-929.
550. Lemanu DP, Srinivasa S, Singh PP, Johannsen S, MacCormick AD, Hill AG.. Optimizing perioperative care in bariatric surgery patients. *Obesity Surgery* 2012, 22(6) 979-990.
551. deMaagd GA, Davenport TC.. Management of urinary incontinence. *P and T* 2012, 37(6) 345-361.
552. Moore CR, Shirodkar SP, Avallone MA, Castle SM, Gorin MA, Gorbatiy V, Leveillee RJ.. Intravesical methylene blue facilitates precise identification of the diverticular neck during robot-assisted laparoscopic bladder diverticulectomy. *Journal of Laparoendoscopic and Advanced Surgical Techniques* 2012, 22(5) 492-495.
553. Bakia J-M, Tordoir JHM, Van Heurn LWE. Traumatic dissection and thrombosis of the popliteal artery in a child. *Journal of Pediatric Surgery* 2012, 47(6) 1299-1301.
554. Ward DE.. Correspondence: Balloons and atrial fibrillation. *Heart* 2012, 98(1) 1 891-892.
555. Dietrich WD.. Editor's commentary. Therapeutic Hypothermia and Temperature Management 2012, 2(2) 49.
556. Hofer N, Muller W, Resch B.. Temperature to heart rate relationship in the neonate. *Signa Vitae* 2012, 7(1) 57.
557. Raine D, Lee A, Wiedmann R. Flash pulmonary oedema: A rare but serious side effect of quinine sulphate. *BMJ Case Reports* 2012, .
558. Haensig M, Rastan AJ, Holzhey DM, Mohr F-W, Garbade J.. Surgical therapy of atrial fibrillation. *Cardiology Research and Practice* 2012, 1(1) Article Number: 149503.
559. Geiger TM, Horst S, Muldoon R, Wise PE, Ennenfeld J, Poulse B, Herline AJ.. Perioperative core body temperatures effect on outcome after colorectal resections. *American Surgeon* 2012, 78(5) 607-612.
560. Goldman IJ.. Nasal airflow and thoracoabdominal motion in children using infrared thermographic video processing. *Pediatric Pulmonology* 2012, 47(5) 476-486.
561. Malaeb BS, Yu X, McBean AM, Elliott SP.. National trends in surgical therapy for benign prostatic hyperplasia in the United States (2000-2008). *Urology* 2012, 79(5) 1111-1116.
562. Ammendolia C, Stuber K, De Bruin LK, Furlan AD, Kennedy CA, Rampersaud YR, Steenstra IA, Pennick V.. Non-operative treatment of lumbar spinal stenosis with neurogenic claudication: A systematic review. *Spine* 2012, 37(10) E609-E616
563. Sharib J, Truntzer J, Young J, Jordan G, Gelman J.. Panurethral stricture after photovaporization of the prostate for benign prostatic hyperplasia. *Journal of Endourology* 2012, 26(5) 520-523.
564. Mori M, Iida H, Miki K, Tsugane E, Sasaki M, Nagayama R, Noguchi T, Manabe H, Ohta F, Imura Y.. Postoperative tetanus after laparoscopic obturator hernia repair for strangulated ileus: Report of a case. *Surgery Today* 2012, 42(5) 470-474.
565. Ben-David K, Rosenthal M, Chauhan SS.. A novel strategy for the management of acute hemorrhage from an atrio- esophageal fistula after atrial ablation. *American Surgeon* 2012, 78(5) E286-E287.
566. Martin LA, Fischer UM, Robinson E, Ko TC.. Gallstone ileus ten days after laparoscopic cholecystectomy. *American Surgeon* 2012, 78(5) E292-E294.
567. Fragakis N, Katritsis DG. Surgical treatment for atrial fibrillation: Where do we stand?. *Hellenic Journal of Cardiology* 2012, 53(3) 210-216.
568. Kasi V, Kalyanpur TM, Narsinghpura K, Chakravarthy D, Mehta P, Cherian M.. Bipolar radiofrequency-induced thermotherapy of great saphenous vein: Our initial experience. *Indian Journal of Radiology and Imaging* 2012, 22(2) 86-88.11
569. Chole RH, Gondivkar SM, Gadail AR, Balsaraf S, Chaudhary S, Dhore SV, Ghonmode S, Balwani S, Mankar M, Tiwari M, Parikh RV.. Review of drug treatment of oral submucous fibrosis. *Oral Oncology* 2012, 48(5) 393-398.
570. Kim JB, Moon JS, Yun S-C, Kim WK, Jung S-H, Choo SJ, Song H, Chung CH, Lee JW.. Long-term outcomes of mechanical valve replacement in patients with atrial fibrillation: Impact of the maze procedure. *Circulation* 2012, 125(17) 2071-2080.11
571. Usvyat LA, Kotanko P, Van Der Sande FM, Kooman JP, Carter M, Leunissen KML, Levin NW.. Circadian variations in

- body temperature during dialysis. *Nephrology Dialysis Transplantation* 2012, 27(3) 1139-1144.
572. Kulis T, Kolaric D, Karlovic K, Knezevic M, Antonini S, Kastelan Z.. Scrotal infrared digital thermography in assessment of varicocele - pilot study to assess diagnostic criteria. *Andrologia* 2012, 44(Suppl.1) 780-785.
573. Brathwaite D, Aziz F, Eakins C, Charles AJ, Cristian A.. Safety Precautions in the Rehabilitation Medicine Prescription. *Physical Medicine and Rehabilitation Clinics of North America* 2012, 23(2) 231-239.
574. Moura-Neto A, Fernandes TD, Zantut-Wittmann DE, Trevisan RO, Sakaki MH, Santos ALG, Nery M, Parisi MCR.. Charcot foot: Skin temperature as a good clinical parameter for predicting disease outcome. *Diabetes Research and Clinical Practice* 2012, 96(2) e11-e14.
575. Dissanayake SU, Bowling FL, Jude EB. The diabetic charcot foot. *Current Diabetes Reviews* 2012, 8(3) 191-194.
576. Toomasian JM.. Editorial. *Perfusion* 2012, 27(3) 164-165.
577. Shifren A, Witt C, Christie C, Castro M.. Mechanisms of remodeling in asthmatic airways. *Journal of Allergy* 2012, Article Number: 316049.
578. Balanzat AM, Hertlein C, Apezteguia C, Bonvehi P, Camera L, Gentile A, Rizzo O, Gomez-Carrillo M, Coronado F, Azziz-Baumgartner E, Chavez PR, Widdowson M-A.. An analysis of 332 fatalities infected with pandemic 2009 influenza A (H1N1) in Argentina. *PLoS ONE* 2012, 7(4) Article Number: e33670.
579. de Senneville BD, Roujol S, Jais P, Moonen CTW, Herigault G, Quesson B.. Feasibility of fast MR-thermometry during cardiac radiofrequency ablation. *NMR in Biomedicine* 2012, 25(4) 556-562.
580. Seamon MJ, Wobb J, Gaughan JP, Kulp H, Kamel I, Dempsey DT.. The effects of intraoperative hypothermia on surgical site infection: An analysis of 524 trauma laparotomies. *Annals of Surgery* 2012, 255(4) 789-795.
581. Dae MW.. Hypothermia and percutaneous coronary intervention during acute myocardial infarction. *Interventional Cardiology* 2012, 4(2) 235-243.
582. Weng Y, Sun S.. Therapeutic hypothermia after cardiac arrest in adults: Mechanism of neuroprotection, phases of hypothermia, and methods of cooling. *Critical Care Clinics* 2012, 28(2) 231-243.
583. Gross JL, Park GR.. Humidification of inspired gases during mechanical ventilation. *Minerva Anestesiologica* 2012, 78(4) 496-502.
584. Shinzawa M, Minatoya K, Ohnishi Y, Yoshitani K, Irie T, Ogino H.. Changes of motor evoked potentials during descending thoracic and thoracoabdominal aortic surgery with deep hypothermic circulatory arrest. *Journal of Anesthesia* 2012, 26(2) 160-167.
585. Qiu H, Yu IT-S, Tian L, Wang X, Tse LA, Tam W, Wong TW.. Effects of coarse particulate matter on emergency hospital admissions for respiratory diseases: A time-series analysis in Hong Kong. *Environmental Health Perspectives* 2012, 120(4) 572-576.
586. Kamath S, Bhadrinarayan V, Ranjan M, Umamaheswara Rao GS.. Alternative approach for the anesthetic management of a patient with large pulmonary bulla presenting with an intracranial tumor for surgery. *Journal of Anaesthesiology Clinical Pharmacology* 2012, 28(2) 272-273.
587. Teraa M, Verhaar MC, Gremmels H, Fledderus JO, Schutgens REG, Moll FL.. Comment on 'stem-cell therapy for peripheral arterial occlusive disease'. *European Journal of Vascular and Endovascular Surgery* 2012, 43(4) 486.
588. Uribe G, Sigler L, Gutierrez-Carreño R, Sanchez-Fabela C, Jimenez-Godinez R. Thoracoabdominal vein thrombophlebitis. Mondor's disease. *Revista Mexicana de Angiología* 2012, 40(2) 57-60.
589. Sacquepée M, Tivollier J-M, Doussy Y, Quirin N, Valéry J-C, Cantin J-F.. Comparison of different techniques of hemodialysis vascular access flow evaluation: Blood Temperature Monitoring thermomodulation and doppler debimetry. *Nephrologie et Thérapeutique* 2012, 8(2) 96-100.
590. Kawaguchi M, Kawamata M, Yamada Y.. Improvement of motor evoked potentials monitoring is required during thoracic or thoracoabdominal aortic aneurysm surgery under hypothermic cardiopulmonary bypass. *Journal of Anesthesia* 2012, 26(2) 157-159.
591. Risso FM, Sannia A, Gazzolo D.. Preterm and term newborn: Primary investigations. *Journal of Maternal-Fetal and Neonatal Medicine* 2012, 25(Suppl.1) 70-72.
592. Sim R, Hall NJ, De Coppi P, Eaton S, Pierro A.. Core temperature falls during laparotomy in infants with necrotizing enterocolitis. *European Journal of Pediatric Surgery* 2012, 22(1) 45-49.
593. Gong Y, Tong Q-Y, Zhu Z-Y.. Endoscopic treatment of wound bleeding after EMR for protuberant lesions of the esophagus: An analysis of 33 cases. *World Chinese Journal of Digestology* 2012, 20(5) 422-424.
594. Knaut M, Link T, Jung F, Brose S, Matschke K.. Endocardial microwave ablation in patients following mitral valve surgery. *Applied Cardiopulmonary Pathophysiology* 2012, 16(1) 17-31.
595. Tagami T, Kushimoto S, Tosa R, Omura M, Hagiwara J, Hirama H, Yokota H.. The precision of PiCCO (registered trademark) measurements in hypothermic post-cardiac arrest patients. *Anaesthesia* 2012, 67(3) 236-243.
596. Laine L, Jensen DM.. Management of patients with ulcer bleeding. *American Journal of Gastroenterology* 2012, 107(3) 345-360.
597. Kelly CP. Current strategies for management of initial *Clostridium difficile* infection. *Journal of Hospital Medicine* 2012, 7(Suppl. 3) S5-S10.
598. Lim CED, Cheng NCL.. Connective tissue reflex massage to improve peripheral circulation in type 2 diabetes mellitus. *Focus on Alternative and Complementary Therapies* 2012, 17(1) 69-70.
599. Bernard SA, Smith K, Cameron P, Masci K, Taylor DM, Cooper DJ, Kelly A-M, Silvester W, Patrick I, Fitzgerald M, Wright C, Buist M, Dixon B, Ernest D, Botha J, Duke G, Mulholland E.. Induction of prehospital therapeutic hypothermia after resuscitation from nonventricular fibrillation cardiac arrest. *Critical Care Medicine* 2012, 40(3) 747-753.
600. Bader MK, Ray TD, Bauman JJ, Guanci MM, Gaieski DF, Leary M. Clinical Q & A: Translating therapeutic temperature management from theory to practice. *Therapeutic Hypothermia and Temperature Management* 2012, 2(1) 44-47.
601. Ristagno G, Tantillo S, Li Y.. Should we be afraid of mild hypothermia? Not at all! Just do not underestimate risk factors and optimize postresuscitation care. *Critical Care Medicine* 2012, 40(3) 1029-1031.
602. Thornton AT, Singh P, Ruehlend WR, Rochford PD.. AASM criteria for scoring respiratory events: Interaction between apnea sensor and hypopnea definition. *Sleep* 2012, 35(3) 425-432.
603. Mahoney L, Crook D, Walter KN, Sherman E, Rabe H.. What is the evidence for the use of adrenaline in the treatment of neonatal hypotension?. *Cardiovascular and Hematological Agents in Medicinal Chemistry* 2012, 10(1) 50-98.
604. Ahrar K, Littrup PJ.. Is cryotherapy the optimal technology for ablation of lung tumors?. *Journal of Vascular and Interventional Radiology* 2012, 23(3) 303-305.
605. Grange P, Rouse P, Kouriefs C, Rao A, Karamanolakis D, Roy A, Arya M.. Laparoscopic cryotherapy for renal tumours. *BJU International* 2012, 109(5) 808-817.
606. Allam MF, Abd Elaziz KM.. Influenza A(H1N1) pandemic: 2 years after. *Journal of Preventive Medicine and Hygiene* 2012, 53(1) 2-3.
607. Seigel TA, Cocchi MN, Saliciccioli J, Shapiro NI, Howell M, Tang A, Donnino MW.. Inadequacy of temperature and white blood cell count in predicting bacteremia in patients with suspected infection. *Journal of Emergency Medicine* 2012, 42(3) 254-259.
608. Koruth JS, Reddy VY, Miller MA, Patel KK, Coffey JO, Fischer A, Gomes JA, Dukkupati S, D'Avila A, Mittnacht A.. Mechanical esophageal displacement during catheter ablation for atrial fibrillation. *Journal of Cardiovascular Electrophysiology* 2012, 23(2) 147-154.
609. Rane A, Stein R, Cadeddu J.. Focal therapy for renal mass lesions: Where do we stand in 2012?. *BJU International* 2012, 109(4) 491-492.

610. Gao M, Ding H, Zhong G, Lu J, Wang H, Li Q, Wang Z.. The effects of transrectal radiofrequency hyperthermia on patients with chronic prostatitis and the changes of MDA, NO, SOD, and Zn levels in pretreatment and posttreatment. *Urology* 2012, 79(2) 391-396.
611. Edgerton JR.. Surgical therapy for atrial fibrillation. *Journal of Cardiovascular Medicine* 2012, 13(2) 125-130.
612. Odonkor P, Stansbury LG, Gammie JS, Rock P, Fitzpatrick M, Grigore AM. Anesthetic management of patients undergoing aortic valve bypass (apicoaortic conduit) surgery. *Journal of Cardiothoracic and Vascular Anesthesia* 2012, 26(1) 148-160.
613. Fakin R, Zimpfer D, Sodeck GH, Rajek A, Mora B, Dumfarth J, Grimm M, Czerny M.. Influence of temperature management on neurocognitive function in biological aortic valve replacement. A prospective randomized trial. *Journal of Cardiovascular Surgery* 2012, 53(1) 107-112.
614. Akin Takmaz S, Yarkan Uysal H, Inan N, Kaptan Z, Basar H.. Effects of right and left stellate ganglion block on blood pressure and QT-QTc intervals in patients with primary Raynaud's phenomenon. *Turkish Journal of Medical Sciences* 2012, 42(1) 89-94.
615. Olszewska E, Rutkowska J, Czajkowska A, Rogowski M.. Selected surgical managements in snoring and obstructive sleep apnea patients. *Medical Science Monitor* 2012, 18(1) CR13-CR18
616. Hey S, Cernicanu A, de Senneville BD, Roujol S, Ries M, Jais P, Moonen CTW, Quesson B.. Towards optimized MR thermometry of the human heart at 3T. *NMR in Biomedicine* 2012, 25(1) 35-43.
617. Kron J, Kron S, Wenkel R, Schuhmacher H-U, Thieme U, Leimbach T, Kern H, Neumayer H-H, Slowinski T.. Extended daily on-line high-volume haemodiafiltration in septic multiple organ failure: A well-tolerated and feasible procedure. *Nephrology Dialysis Transplantation* 2012, 27(1) 146-152.
618. Choi SY, Kim T-H, Myung SC, Moon YT, Kim KD, Kim YS, Kim H-R, Chang IH.. Impact of changing trends in medical therapy on surgery for benign prostatic hyperplasia over two decades. *Korean Journal of Urology* 2012, 53(1) 23-28.
619. Li J, Karmakar MK, Li X, Kwok WH, Ngan Kee WD.. Regional hemodynamic changes after an axillary brachial plexus block: A pulsed-wave doppler ultrasound study. *Regional Anesthesia and Pain Medicine* 2012, 37(1) 111-118.
620. Cunha BA.. Fever myths and misconceptions: The beneficial effects of fever as a critical component of host defenses against infection. *Heart and Lung: Journal of Acute and Critical Care* 2012, 41(1) 99-101.
621. O'Brien T, Breivik H.. The impact of chronic pain-European patients' perspective over 12 months. *Scandinavian Journal of Pain* 2012, 3(1) 23-29.
622. Esquinas Rodriguez AM, Scala R, Soroksky A, BaHammam A, de Klerk A, Valipour A, Chiumello D, Martin C, Holland AE.. Clinical review: Humidifiers during non-invasive ventilation - key topics and practical implications. *Critical Care* 2012, 16(1) Article Number: 203.
623. Acharya SS. Exploration of the pathogenesis of haemophilic joint arthropathy: Understanding implications for optimal clinical management *British Journal of Haematology* 2012, 156(1) 13-23
624. Allen KD. Non-pharmacological treatments for hip and knee osteoarthritis *European Musculoskeletal Review* 2012, 7(3) 143-146.
625. Ammer K. Temperature of the human knee - A review *Thermology International* 2012, 22(4) 137-151.
626. Barr A, Conaghan PG. Osteoarthritis: A holistic approach *Clinical Medicine, Journal of the Royal College of Physicians of London* 2012, 12(2) 153-155.
627. Bogdan C. Leishmaniasis in rheumatology, haematology and oncology: Epidemiological, immunological and clinical aspects and caveats *Annals of the Rheumatic Diseases* 2012, 71(Suppl.2) i60-i66.
628. Calvano SE, Coyle SM. Experimental human endotoxemia: A model of the systemic inflammatory response syndrome? *Surgical Infections* 2012, 13(5) 293-299.
629. Casale R, Damiani C, Rosati V, Atzeni F, Sarzi-Putini P, Nica AS. Efficacy of a comprehensive rehabilitation programme combined with pharmacological treatment in reducing pain in a group of OA patients on a waiting list for total joint replacement *Clinical and Experimental Rheumatology* 2012, 30(2) 233-239.
630. Clark A, Mangat J, King Y, Islam S, Anagnostou K, Foley L, Deighton J, Ewan P. Thermographic imaging during nasal peanut challenge may be useful in the diagnosis of peanut allergy *Allergy: European Journal of Allergy and Clinical Immunology* 2012, 67(4) 574-576.
631. Costello JT, McInerney CD, Bleakley CM, Selfe J, Donnelly AE. The use of thermal imaging in assessing skin temperature following cryotherapy: A review *Journal of Thermal Biology* 2012, 37(2) 103-110.
632. Gabrhel J, Popracova Z, Tauchmannova H, Chvojka Z. The connection of thermographic and musculoskeletal ultrasound examinations of "the syndrome of painful knee" *Rheumatologia* 2012, 26(1) 1-21.
633. Gabrhel J, Popracova Z, Tauchmannova H, Chvojka Z. The relationship between thermographic and musculoskeletal ultrasound findings in the "painful knee syndrome" *Thermology International* 2012, 22(2) 43-52.
634. Gorbach AM, Ackerman HC, Liu W-M, Meyer JM, Littel PL, Seamon C, Footman E, Chi A, Zorca S, Krajewski ML, Cuttica MJ, Machado RF, Cannon RO, Kato GJ. Infrared imaging of nitric oxide-mediated blood flow in human sickle cell disease *Microvascular Research* 2012, 84(3) 262-269.
635. Gray L, Lang CW, Porges SW. Warmth is analgesic in healthy newborns *Pain* 2012, 153(5) 960-966.
636. Gupta A, Gupta N. Tranexamic acid in total knee replacement surgeries: Some concerns *Indian Journal of Anaesthesia* 2012, 56(3) 320-321.1 May/
637. Gupta B, Kaur M, Sharma A, Sharma S. Child with aplastic anemia: Anesthetic management *Saudi Journal of Anaesthesia* 2012, 6(3) 298-300.
638. Hewlett S, Sanderson T, May J, Alten R, Bingham CO, Cross M, March L, Pohl C, Woodworth T, Bartlett SJ. 'I'm hurting, I want to kill myself': Rheumatoid arthritis flare is more than a high joint count-an international patient perspective on flare where medical help is sought *Rheumatology* 2012, 51(1) 69-76 Article Number: keq455.
639. Kalinova D, Rashkov R. The role of thermography in rheumatological practice *Revmatologija Bulgaria* 2012, 20(1) 43-51.
640. Kiekkas P. Reply to "Fever myths and misconceptions: The beneficial effects of fever as a critical component of host defenses against infection" by Cunha et al *Heart and Lung: Journal of Acute and Critical Care* 2012, 41(1) 99.
641. Kramer HH. Immunological aspects of the complex regional pain syndrome (CRPS) *Current Pharmaceutical Design* 2012, 18(2) 4546-4549.
642. Kubio C, Tierney G, Quaye T, Nabilisi JW, Ziemah C, Zagbeeb SM, Shaw S, Murphy WG. Blood transfusion practice in a rural hospital in Northern Ghana, Damongo, West Gonja District *Transfusion* 2012, 52(10) 2161-2166.
643. Kutcher ME, Cripps MW, McCreery RC, Crane IM, Greenberg MD, Cachola LM, Redick BJ, Nelson MF, Cohen MJ. Criteria for empiric treatment of hyperfibrinolysis after trauma *Journal of Trauma and Acute Care Surgery* 2012, 73(1) 87-93.
644. Miloro P, Sinibaldi E, Menciasci A, Dario P. Removing vascular obstructions: A challenge, yet an opportunity for interventional microdevices *Biomedical Microdevices* 2012, 14(3) 511-532.
645. Mitra B, Cameron PA, Parr MJ, Phillips L. Recombinant factor VIIa in trauma patients with the 'triad of death' *Injury* 2012, 43(9) 1409-1414.
646. Otani T, Oki K-I, Akino M, Tamura S, Naito Y, Homma C, Ikeda H, Sumita S. Effects of helicopter transport on red blood cell components *Blood Transfusion* 2012, 10(1) 78-86.
647. Parodi D, Tobar C, Valderrama J, Sauthier E, Besomi J, Lopez J, Lara J, Mella C, Ilic JP. Hip arthroscopy and hypothermia Arthroscopy - *Journal of Arthroscopic and Related Surgery* 2012, 28(7) 924-928.
648. Reissshauer A, Liebl ME. Physical medicine in hospital. Minimum standards in a physical medical department in acute inpa-

- tient areas in rheumatology *Zeitschrift fur Rheumatologie* 2012, 71(5) 364-368.
- 649.Ren X-M, Cao J-J, Shen X-Y, Wang L-Z, Zhao L, Wu F, Zhang H-M. Preliminary clinical randomized controlled trial on knee osteoarthritis treated with moxibustion *World Journal of Acupuncture - Moxibustion* 2012, 22(2) 28-33.
- 650.Ryan TJ, Narahari SR. Reporting an alliance using an integrative approach to the management of lymphedema in India *International Journal of Lower Extremity Wounds* 2012, 11(1) 5-9.
- 651.Schiavenato M, Thiele RG. Thermography detects sub-clinical inflammation in chronic tophaceous gout *Journal of Rheumatology* 2012, 39(1) 182-183.
- 652.Whittington RJ, Begg DJ, de Silva K, Plain KM, Purdie AC. Comparative immunological and microbiological aspects of paratuberculosis as a model mycobacterial infection *Veterinary Immunology and Immunopathology* 2012, 148(1)-2 29-47.
- 653.Chen M-J, Lin C-Y, Wu Y-T, Wu P-C, Lung S-C, Su H-J. Effects of extreme precipitation to the distribution of infectious diseases in Taiwan, 1994-2008.1 *PLoS ONE* 2012, 7(6) Article Number: e34651.
- 654.Costerus JM, Van De Beek D, Brouwer MC. Nosocomial meningitis caused by gas producing *Klebsiella pneumoniae*. *BMJ Case Reports* 2012,.
- 655.De Hoog GS, Van Diepeningen AD, Mahgoub E-S, Van De Sande WWJ. New species of *Madurella*, causative agents of black-grain mycetoma. *Journal of Clinical Microbiology* 2012, 50(3) 988-994.
- 656.Gaieski DF, Nathan BR, Weingart SD, Smith WS. Emergency neurologic life support: Meningitis and encephalitis. *Neurocritical Care* 2012, 17(Suppl.1) S66-S72.
- 657.Hsu LY, Wijaya L, Shu-Ting Ng E, Gotuzzo E. Tropical Fungal Infections. *Infectious Disease Clinics of North America* 2012, 26(2) 497-512.
- 658.Ishii H, Komiya K, Yamagata E, Yatera K, Chojin Y, Yamamoto H, Mukae H, Kadota J-I. Clarithromycin has limited effects in non-elderly, non-severe patients with seasonal influenza virus A infection. *Journal of Infection* 2012, 64(3) 343-345.
- 659.Kobets T, Grekov I, Lipoldova M. Leishmaniasis: Prevention, parasite detection and treatment. *Current Medicinal Chemistry* 2012, 19(10) 1443-1474.
- 660.Murray HW. Review: Leishmaniasis in the United States: Treatment in 2012.1 *American Journal of Tropical Medicine and Hygiene* 2012, 86(3) 434-440.
- 661.Oki M, Yamamoto T. Climate Change, Population Immunity, and Hyperendemicity in the Transmission Threshold of Dengue. *PLoS ONE* 2012, 7(10) Article Number: e48258.
- 662.Sakaguchi H, Tsunoda M, Wada K, Ohta H, Kawashima M, Yoshino Y, Aizawa Y. Assessment of border control measures and community containment measures used in Japan during the early stages of Pandemic (H1N1) 2009.1 *PLoS ONE* 2012, 7(2) Article Number: e31289.
- 663.Siahianidou T, Gika G, Skiathitou A-V, Oikonomopoulos T, Alexandrou-Athanassoulis H, Koutouzis EI, Syriopoulou VP. *Pasteurella multocida* infection in a neonate: Evidence for a human-to-human horizontal transmission. *Pediatric Infectious Disease Journal* 2012, 31(5) 536-537.
- 664.Than LTL, Chong PP, Ng KP, Seow HF. Detection of 10 medically important *Candida* species by seminested polymerase chain reaction. *Diagnostic Microbiology and Infectious Disease* 2012, 72(2) 196-198.
- 665.Timen A, Isken LD, Willemse P, van den Berkmoortel F, Koopmans MPG, van Oudheusden DEC, Bleeker-Rovers CP, Brouwer AE, Grol RPTM, Hulscher MEJL, van Dissel JT. Retrospective evaluation of control measures for contacts of patient with Marburg hemorrhagic fever. *Emerging Infectious Diseases* 2012, 18(7) 1107-1114.
- 666.Velliyagounder K, Ganeshnarayan K, Velusamy SK, Fine DH. In vitro efficacy of diallyl sulfides against the periodontopathogen *Aggregatibacter actinomycetemcomitans*. *Antimicrobial Agents and Chemotherapy* 2012, 56(5) 2397-2407.
- 667.Wiens MO, Kumbakumba E, Kissoon N, Ansermino JM, Ndamira A, Larson CP. Pediatric sepsis in the developing world: Challenges in defining sepsis and issues in post-discharge mortality. *Clinical Epidemiology* 2012, 4(1) 319-325.
- 668.Agishi T. Beyond a Boundary Between the Scientific Artificial Organ World and the Nonscientific Spiritual World Artificial Organs 2012, 36(12) 1012-1014.
- 669.Al-Nakhli HH, Petrofsky JS, Laymon MS, Arai D, Holland K, Berk LS. The use of thermal infrared imaging to assess the efficacy of a therapeutic exercise program in individuals with diabetes *Diabetes Technology and Therapeutics* 2012, 14(2) 159-167.
- 670.Balasubramaniam SC, Mohnney BG, Bang GM, Link TP, Pulido JS. Utility of large spot binocular indirect laser delivery for peripheral photocoagulation therapy in children *Archives of Ophthalmology* 2012, 130(9) 1213-1217.
- 671.Barker SL, Johnstone AJ, Kumar K. In vivo temperature measurement in the subacromial bursa during arthroscopic subacromial decompression *Journal of Shoulder and Elbow Surgery* 2012, 21(6) 804-807.
- 672.Baynes R, Riviere J, Franz T, Monteiro-Riviere N, Lehman P, Peyrou M, Toutain P-L. Challenges obtaining a biowaiver for topical veterinary dosage forms *Journal of Veterinary Pharmacology and Therapeutics* 2012, 35(Suppl.1) 103-114.
- 673.Bellomo R, Ackerman M, Bailey M, Beale R, Clancy G, Danesh V, Hvarfner A, Jimenez E, Konrad D, Lecardo M, Pattee KS, Ritchie J, Sherman K, Tangkau P. A controlled trial of electronic automated advisory vital signs monitoring in general hospital wards *Critical Care Medicine* 2012, 40(8) 2349-2361.
- 674.Benish BM, Smith KJ, Schwartz MH. Validation of a miniature thermochron for monitoring thoracolumbosacral orthosis wear time *Spine* 2012, 37(4) 309-315.
- 675.Bergmann G, Graichen F, Dymke J, Rohlmann A, Duda GN, Damm P. High-tech hip implant for wireless temperature measurements in vivo *PLoS ONE* 2012, 7(8) Article Number: e43489.
- 676.Bracher J, Saleh DB, Urso-Baiarda F, Brierley N, Rawlins J, Bhandari S. Documenting thermoregulatory system activity in burn patients *Burns* 2012, 38(6) 946-947.
- 677.Cardona-Torres LM, Amador-Licona N, Garcia-Campos ML, Guizar-Mendoza JM. Polyethylene wrap for thermoregulation in the preterm infant: A randomized trial *Indian Pediatrics* 2012, 49(2) 129-132.
- 678.Crossley B. Blanket warmers revisited and temporal thermometers *Biomedical Instrumentation and Technology* 2012, 46(2) 147.
- 679.Crouzier D, Selek L, Martz B-A, Dabouis V, Arnaud R, Debouzy J-C. Risk assessment of electromagnetic fields exposure with metallic orthopedic implants: A cadaveric study *Orthopaedics and Traumatology: Surgery and Research* 2012, 98(1) 90-96.
- 680.Demoulin C, Brouwers M, Darot S, Gillet P, Crielaard J-M, Vanderthommen M. Comparison of gaseous cryotherapy with more traditional forms of cryotherapy following total knee arthroplasty *Annals of Physical and Rehabilitation Medicine* 2012, 55(4) 229-240.
- 681.Dobke MK, Hitchcock T, Misell L, Sasaki GH. Tissue restructuring by Energy-Based Surgical Tools *Clinics in Plastic Surgery* 2012, 39(4) 399-408.
- 682.Duru CO, Akinbami FO, Orimadegun AE. A comparison of tympanic and rectal temperatures in term NIGERIAN neonates *BMC Pediatrics* 2012, 12 Article Number: 86.
- 683.Dyer I. Measurement of humidity *Anaesthesia and Intensive Care Medicine* 2012, 13(3) 121-123.
- 684.Fliri L, Lenz M, Boger A, Windolf M. Ex vivo evaluation of the polymerization temperatures during cement augmentation of proximal femoral nail antirotation blades *Journal of Trauma and Acute Care Surgery* 2012, 72(4) 1098-1101.
- 685.Gao C, Liu M, Chen J, Chen C. PH- and temperature-responsive P(DMAEMA-GMA)-alginate semi-IPN hydrogels formed by radical and ring-opening polymerization for amino-phylline release *Journal of Biomaterials Science, Polymer Edition* 2012, 23(8) 1039-1054.
- 686.Gou Z, Lau SS-Y, Chen F. Subjective and objective evaluation of the thermal environment in a three-star green office

- building in China *Indoor and Built Environment* 2012, 21(3) 412-422.
- 687.Guan L, Li G, Yang Y, Deng X, Cai P. Infrared thermography and meridian-effect evidence and explanation in Bell's palsy patients treated by moxibustion at the Hegu (LI4) acupoint overall regulation or a specific target? *Neural Regeneration Research* 2012, 7(9) 680-685.
- 688.Hasegawa K, Nakagawa F, Negishi C, Ozaki M. Core temperatures during major abdominal surgery in patients warmed with new circulating-water garment, forced-air warming, or carbon-fiber resistive-heating system *Journal of Anesthesia* 2012, 26(2) 168-173.
- 689.Hauvik LE, Mercer JB. Thermographic mapping of the skin surface of the head in bald-headed male subjects *Journal of Thermal Biology* 2012, 37(7) 510-516.
- 690.Horn AR, Joolay Y, Tooke L, Harrison MC. A servo-assisted gel-pack cooling method for newborn infants with hypoxic-ischemic encephalopathy *Journal of Tropical Pediatrics* 2012, 58(3) 236-238 Article Number: fmr069.
- 691.Jethwa PR, Barrese JC, Gowda A, Shetty A, Danish SF. Magnetic resonance thermometry-guided laser-induced thermal therapy for intracranial neoplasms: Initial experience *Neurosurgery* 2012, 71(Suppl.1) ons133-ons144.
- 692.Kailas A, Chong C-C, Watanabe F. Simple statistical inference algorithms for task-dependent wellness assessment *Computers in Biology and Medicine* 2012, 42(7) 725-734.
- 693.Karlsson V, Heinemann A-B, Sjors G, Nykvist KH, Agren J. Early skin-to-skin care in extremely preterm infants: Thermal balance and care environment *Journal of Pediatrics* 2012, 161(3) 422-426.
- 694.Kim Y-S, Trillaud H, Rhim H, Lim HK, Mali W, Voogt M, Barkhausen J, Eckey T, Kohler MO, Keserci B, Mougnot C, Sokka SD, Soini J, Nieminen HJ. MR thermometry analysis of sonication accuracy and safety margin of volumetric MR imaging-guided high-intensity focused ultrasound ablation of symptomatic uterine fibroids *Radiology* 2012, 265(2) 627-637.
- 695.Klamann MKJ, Maier A-KB, Gonnermann J, Klein JP, Pleyer U. Measurement of dynamic ocular surface temperature in healthy subjects using a new thermography device *Current Eye Research* 2012, 37(8) 678-683.
- 696.Klemetsen O, Jacobsen S. Improved radiometric performance attained by an elliptical microwave antenna with suction *IEEE Transactions on Biomedical Engineering* 2012, 59(1) 263-271 Article Number: 6051473.
- 697.Lohman III EB, Sackiriyas KSB, Bains GS, Calandra G, Lobo C, Nakhro D, Malthankar G, Paul S. A comparison of whole body vibration and moist heat on lower extremity skin temperature and skin blood flow in healthy older individuals *Medical Science Monitor* 2012, 18(7) CR415-CR424.
- 698.Mai CL, Cote CJ. A history of pediatric anesthesia: A tale of pioneers and equipment *Paediatric Anaesthesia* 2012, 22(6) 511-520.
- 699.Martens KA, Edwards SL, Omar IM, Saltzman MD. Heat generated with pegged or keeled glenoid components fixed with defined amounts of cement *Orthopedics* 2012, 35(4) e469-e473.
- 700.Miller DJ, Franzone JM, Matsumoto H, Gomez JA, Avendano J, Hyman JE, Roye DP, Vitale MG. Electronic monitoring improves brace-wearing compliance in patients with adolescent idiopathic scoliosis: A randomized clinical trial *Spine* 2012, 37(9) 717-721.
- 701.Mohamed M, Borchard G, Jordan O. In situ forming implants for local chemotherapy and hyperthermia of bone tumors *Journal of Drug Delivery Science and Technology* 2012, 22(5) 393-408.
- 702.Mole TB, Kennedy N, Ndoya N, Emond A. ThermoSpots to Detect Hypothermia in Children with Severe Acute Malnutrition *PLoS ONE* 2012, 7(9) Article Number: e45823.
- 703.Opie NL, Burkitt AN, Meffin H, Grayden DB. Heating of the eye by a retinal prosthesis: Modeling, cadaver and in vivo study *IEEE Transactions on Biomedical Engineering* 2012, 59(2) 339-345 Article Number: 6045322.
- 704.Paley MNJ, Hart AR, Lait M, Griffiths PD. An MR-compatible neonatal incubator *British Journal of Radiology* 2012, 85(10) 15 952-958.
- 705.Palte HD, Gayer S. Ultrasound investigation and the eye *Anesthesiology* 2012, 117(6) 1396-1397.
- 706.Pertl T, Rhenius A, Eich CB, Quintel M, Heise D, Brauer A. Conductive warming and insulation reduces perioperative hypothermia *Central European Journal of Medicine* 2012, 7(3) 284-289.
- 707.Racinais S, Fernandez J, Farooq A, Valciu SC, Hynes R. Daily variation in body core temperature using radio-telemetry in aluminium industry shift-workers *Journal of Thermal Biology* 2012, 37(4) 351-354.
- 708.Raith W, Litscher G, Sapetschnig I, Bauchinger S, Ziehenberger E, Muller W, Urlesberger B. Thermographical measuring of the skin temperature using laser needle acupuncture in preterm neonates *Evidence-based Complementary and Alternative Medicine* 2012, 2012 Article Number: 614210.
- 709.Romano CL, Logoluso N, Dell'Oro F, Elia A, Drago L. Telethermographic findings after uncomplicated and septic total knee replacement *Knee* 2012, 19(3) 193-197.
- 710.Royer T. Maximum flow rates achievable through peripherally inserted central catheters using standard hospital infusion pumps *JAVA - Journal of the Association for Vascular Access* 2012, 17(2) 78-83.
- 711.Sahin SH, Duran R, Sut N, Colak A, Acunas B, Aksu B. Comparison of temporal artery, nasopharyngeal, and axillary temperature measurement during anesthesia in children *Journal of Clinical Anesthesia* 2012, 24(8) 647-651.
- 712.Sasaki GH. Early Clinical Experience with the 1440-nm Wavelength Internal Pulsed Laser in Facial Rejuvenation. Two-Year Follow-up. *Clinics in Plastic Surgery* 2012, 39(4) 409-417.
- 713.Silva CT, Naveed N, Bokhari S, Baker KE, Staib LH, Ibrahim SM, Muchantef K, Goodman TR. Early assessment of the efficacy of digital infrared thermal imaging in pediatric extremity trauma *Emergency Radiology* 2012, 19(3) 203-209.
- 714.Stewart C, Harban F. Thermal injuries from the use of a forced-air warming device *Paediatric Anaesthesia* 2012, 22(4) 414-415.
- 715.Varshosaz J. Dextran coon njugates in drug delivery *Expert Opinion on Drug Delivery* 2012, 9(5) 509-523.
- 716.Vega-Estrada A, Alio JL, Plaza Puche AB, Marshall J. Outcomes of a new microwave procedure followed by accelerated cross-linking for the treatment of keratoconus: A pilot study *Journal of Refractive Surgery* 2012, 28(11) 787-792.
- 717.Wegener B, Rieskamp K, Buttner A, Habiyambere V, von Schulze-Pellengahr C, Schaffer V, JanssV, Birkenmaier C. Experimental evaluation of the risk of extradiscal thermal damage in intradiscal electrothermal therapy (IDET) *Pain Physician* 2012, 15(1) E99-E106.
- 718.Weis J, Covaciu L, Rubertsson S, Allers M, Lunderquist A, Ortiz-Nieto F, Ahlstrom H. Phase-difference and spectroscopic imaging for monitoring of human brain temperature during cooling *Magnetic Resonance Imaging* 2012, 30(10) 1505-1511.
- 719.Xin X, Han J, Feng Y, Feng Q, Chen W. Inverse design of an organ-oriented RF coil for open, vertical-field, MR-guided, focused ultrasound surgery *Magnetic Resonance Imaging* 2012, 30(10) 1519-1526.
- 720.Zacharia BE, Bruce JN. Comment *Neurosurgery* 2012, 71(Suppl.1) ons145.
- 721.Horn AR, Linley LL, Harrison MC. Appropriate methods of cooling for South Africa *SAJCH South African Journal of Child Health* 2012, 6(4) 135.
- 722.Sun G, Yang X, Jiang Q, Liu K, Li B, Li L, Zhao L, Li M. Hyperthermia impairs the executive function using the Attention Network Test *International Journal of Hyperthermia* 2012, 28(7) 621-626.
- 723.Hills TE. Determining brain death *Nursing Critical Care* 2012, 7(1) 40-47.
- 724.Romeijn N, Raymann RJEM, Most E, Te Lindert B, Van Der Meijden WP, Fronczek R, Gomez-Herrero G, Van Someren EJW. Sleep, vigilance, and thermosensitivity *Pflugers Archiv European Journal of Physiology* 2012, 463(1) 169-176.
- 725.Jiang C-B, Wang J, Zheng Z-X, Hou J-S, Ma L, Sun T. Efficacy of cervical fixed-point traction manipulation for cer-

- vical spondylotic radiculopathy: A randomized controlled trial *Journal of Chinese Integrative Medicine* 2012, 10(1) 54-58.
726. Bernjak A, Cui J, Iwase S, Mano T, Stefanovska A, Eckberg DL. Human sympathetic outflows to skin and muscle target organs fluctuate concordantly over a wide range of time-varying frequencies *Journal of Physiology* 2012, 590(2) 363-375.
727. Fink EL, Kochanek PM, Clark RSB, Bell MJ. Fever control and application of hypothermia using intravenous cold saline *Pediatric Critical Care Medicine* 2012, 13(1) 80-84.
728. Van Eijs F, Geurts J, Van Kleef M, Faber CG, Perez RS, Kessels AGH, Van Zundert J. Predictors of pain relieving response to sympathetic blockade in complex regional pain syndrome type 1. *Anesthesiology* 2012, 116(1) 113-121.
729. Sethna NF, Berde CB. Sympathetic nerve blocks, pragmatic trials, and responder analysis *Anesthesiology* 2012, 116(1) 12-14.
730. Li J, Jiang J-Y. Chinese head trauma data bank: Effect of hyperthermia on the outcome of acute head trauma patients *Journal of Neurotrauma* 2012, 29(1) 96-100.
731. Chowdhury T, Prabhakar H, Bharati SJ, Goyal K, Dube SK, Singh GP. Comparison of propofol versus sevoflurane on thermoregulation in patients undergoing transsphenoidal pituitary surgery: A preliminary study *Saudi Journal of Anaesthesia* 2012, 6(1) 12-15.
732. Sharma A. Whole body cooling in newborn infants with perinatal asphyxial encephalopathy *Indian Pediatrics* 2012, 49(1) 74-75.
733. Stippler M, Ortiz V, Adelson PD, Chang Y-F, Tyler-Kabara EC, Wisniewski SR, Fink EL, Kochanek PM, Brown SD, Bell MJ. Brain tissue oxygen monitoring after severe traumatic brain injury in children: Relationship to outcome and association with other clinical parameters *Journal of Neurosurgery: Pediatrics* 2012, 10(5) 383-391.
734. Colvin JM, Jaffe DM, Muenzer JT. Evaluation of the precision of emergency department diagnoses in young children with fever *Clinical Pediatrics* 2012, 51(1) 51-57.
735. Sun G, Li M, Yang Z, Li L, Jiang Q, Zhao L. Hyperthermia exposure impaired the early stage of face recognition: An ERP study *International Journal of Hyperthermia* 2012, 28(7) 605-620.
736. Lile JA, Kelly TH, Hays LR. Separate and combined effects of the GABA(B) agonist baclofen and (Delta)(9)-THC in humans discriminating (Delta)(9)-THC Drug and Alcohol Dependence 2012, 126(1)-2 216-223.
737. Casale R, Atzeni F, Sarzi-Puttini P. Neurophysiological background for physical therapies in fibromyalgia *Reumatismo* 2012, 64(4) 238-249.
738. Carmichael DW, Vulliemoz S, Rodionov R, Thornton JS, McEvoy AW, Lemieux L. Simultaneous intracranial EEG-fMRI in humans: Protocol considerations and data quality *Neuro Image* 2012, 63(1) 301-309.
739. Kim B, Lee J-H, Kang E-H, Yu B-H. Temperament affects sympathetic nervous function in a normal population *Psychiatry Investigation* 2012, 9(3) 293-297.
740. Most EIS, Scheltens P, Van Someren EJW. Increased skin temperature in Alzheimer's disease is associated with sleepiness *Journal of Neural Transmission* 2012, 119(10) 1185-1194.
741. Plaisier A, Raets MMA, Der Starre CV, Feijen-Roon M, Govaert P, Lequin MH, Heemskerk AM, Dudink J. Safety of routine early MRI in preterm infants *Pediatric Radiology* 2012, 42(10) 1205-1211.
742. Walter E, Venn R, Stevenson T. Exertional heat stroke - the athlete's nemesis 1A01 3A13 *Journal of the Intensive Care Society* 2012, 13(4) 304-308.
743. Romeijn N, Verweij IM, Koeleman A, Mooij A, Steimke R, Virkkala J, Van Der Werf Y, Van Someren EJW. Cold hands, warm feet: Sleep deprivation disrupts thermoregulation and its association with vigilance *Sleep* 2012, 35(12) 1673-1683.
744. Choi W, Lee S, Cho S, Park K. Differential autonomic response to acupuncture at wood and metal of five-shu acupoints *Journal of Alternative and Complementary Medicine* 2012, 18(10) 959-964.
745. Dieltjens T. Bet 1: Is heat application as good as pain killers in dysmenorrhoea? *Emergency Medicine Journal* 2012, 29(10) 853-854.
746. Pursiainen V, Lyytinen J, Pekkonen E. Effect of duodenal levodopa infusion on blood pressure and sweating *Acta Neurologica Scandinavica* 2012, 126(4) e20-e24.
747. Hurwitz EL. Epidemiology: Spinal manipulation utilization *Journal of Electromyography and Kinesiology* 2012, 22(5) 648-654.
748. Courtet P, Olie E. Circadian dimension and severity of depression *European Neuropsychopharmacology* 2012, 22 (Suppl.3) S476-S481.
749. Rajasekharan C, Deepak M. Acute onset quadriplegia *BMJ Case Reports* 2012,.
750. Inokuchi R, Sato H, Aoki Y, Yahagi N. Bilateral common carotid artery dissection *BMJ Case Reports* 2012,.
751. Shechter A, Lesperance P, Ng Ying Kin NMK, Boivin DB. Nocturnal polysomnographic sleep across the menstrual cycle in premenstrual dysphoric disorder *Sleep Medicine* 2012, 13(8) 1071-1078.
752. Levine M, LoVecchio F, Ruha A-M, Chu G, Roque P. Influence of Drug Use on Morbidity and Mortality in Heatstroke *Journal of Medical Toxicology* 2012, 8(3) 252-257.
753. Paton B, Hohwy J, Enticott PG. The rubber hand illusion reveals proprioceptive and sensorimotor differences in autism spectrum disorders *Journal of Autism and Developmental Disorders* 2012, 42(9) 1870-1883.
754. Litscher G. Are female and male meridians different? Some spontaneous thoughts *Medical Acupuncture* 2012, 24(4) 213-214.
755. Timmons SD. An update on traumatic brain injuries *Journal of Neurosurgical Sciences* 2012, 56(3) 191-202.
756. Maetzler W, Klenk J, Becker C, Zscheile J, Gabor K-S, Lindemann U. Longitudinal changes of nerve conduction velocity, distal motor latency, compound motor action potential duration, and skin temperature during prolonged exposure to cold in a climate chamber *International Journal of Neuroscience* 2012, 122(9) 528-531.
757. Marlowe D. Complementary and Alternative Medicine Treatments for Low Back Pain Primary Care - Clinics in Office Practice 2012, 39(3) 533-546.
758. Brighton SW. The management of acute low back pain in adults: A guide for the primary care physician *South African Family Practice* 2012, 54(5) 398-403.
759. Luigietti M, Quaranta D, Modoni A, Mereu ML, Lo Monaco M. Nerve conduction studies of the sural nerve: Normative data from a single-center experience *Clinical Neurophysiology* 2012, 123(9) 1891-1892.
760. Guild DG. Mechanical Therapy for Low Back Pain Primary Care - Clinics in Office Practice 2012, 39(3) 511-516.
761. Rodriguez JE. Working with Pain Clinics and Other Consultants Concerning Low Back Pain Primary Care - Clinics in Office Practice 2012, 39(3) 547-552.
762. Alam A, Bryk J, Chengappa RKN. Recurrent episodes of hypothermia with psychiatric medications: An unsuspected case of primary adrenal insufficiency *Primary Care Companion to the Journal of Clinical Psychiatry* 2012, 14(1).
763. Fukumura H, Okada S, Makikawa M. Estimation of sleep stage using SVM from noncontact measurement of forehead and nasal skin temperature *Transactions of Japanese Society for Medical and Biological Engineering* 2012, 50(1) 131-137.
764. Gartlehner G, Stepper K, Julius Wagner-Jauregg. Pyrotherapy, simultanmethode, and 'racial hygiene' *Journal of the Royal Society of Medicine* 2012, 105(8) 357-359.
765. Dorsher PT. Acupuncture for Hot Flashes: Combining Traditional and Neurophysiologic Considerations for Effective Treatment *Medical Acupuncture* 2012, 24(4) 215-220.
766. Thoomes EJ, Scholten-Peeters GGM, De Boer AJ, Olsthoorn RA, Verkerk K, Lin C, Verhagen AP. Lack of uniform diagnostic criteria for cervical radiculopathy in conservative intervention studies: A systematic review *European Spine Journal* 2012, 21(8) 1459-1470.
767. Tenorio V, Alarcon A, Garcia-Alix A, Arca G, Camprubi M, Agut T, Figueras J. Moderate cerebral hypothermia in hypoxic-ischaemic encephalopathy: Experience after one year *Anales de Pediatria* 2012, 77(2) 88-97.

- 768.Cassidy L, Walters A, Bubbs K, Shoja MM, Tubbs RS, Loukas M. Piriformis syndrome: Implications of anatomical variations, diagnostic techniques, and treatment options Surgical and Radiologic Anatomy 2012, 34(6) 479-486.
- 769.Buttatagat V, Eungpinichpong W, Kaber D, Chatchawan U, Arayawichanon P. Acute effects of traditional Thai massage on electroencephalogram in patients with scapulocostal syndrome Complementary Therapies in Medicine 2012, 20(4) 167-174.
- 770.Raimundo RJS, Uribe CE, Brasil-Neto JP. Lack of clinically detectable acute changes on autonomic or thermoregulatory functions in healthy subjects after transcranial direct current stimulation (tDCS) Brain Stimulation 2012, 5(3) 196-200.
- 771.Takeda Y, Hashimoto H, Fumoto K, Danura T, Naito H, Morimoto N, Katayama H, Fushimi S, Matsukawa A, Ohtsuka A, Morita K. Effects of pharyngeal cooling on brain temperature in primates and humans: A study for proof of principle Anesthesiology 2012, 117(1) 117-125.
- 772.Wason R, Jain N, Gupta P, Gogia AR. Randomized double-blind comparison of prophylactic ketamine, clonidine and tramadol for the control of shivering under neuraxial anaesthesia Indian Journal of Anaesthesia 2012, 56(4) 370-375.
- 773.Kobayashi M, Yokota T, Tomimitsu H, Ishibashi S, Sekiguchi T, Kanouchi T, Ishikawa K, Mizusawa H. Motor-dominant chronic inflammatory demyelinating polyradiculoneuropathy with uhthoff-like phenomenon is a distinct clinical entity? Muscle and Nerve 2012, 46(1) 140-142.
- 774.Madsen CS, Johnsen B, Fuglsang-Frederiksen A, Jensen TS, Finnerup NB. Increased contact heat pain and shortened latencies of contact heat evoked potentials following capsaicin-induced heat hyperalgesia Clinical Neurophysiology 2012, 123(7) 1429-1436.
- 775.Reiman MP, Manske RC. The assessment of function. Part II: Clinical perspective of a javelin thrower with low back and groin pain Journal of Manual and Manipulative Therapy 2012, 20(2) 83-89.
- 776.Ghosn R, Thuroczy G, Loos N, Brenet-Dufour V, Liabeuf S, De Seze R, Selmaoui B. Effects of GSM 900 MHz on middle cerebral artery blood flow assessed by transcranial doppler sonography Radiation Research 2012, 178(6) 543-550.
- 777.Oka T, Oka K. Mechanisms of psychogenic fever Advances in Neuroimmune Biology 2012, 3(1) 3-17.
- 778.Souissi M, Chtourou H, Zrane A, Cheikh RB, Dogui M, Tabka Z, Souissi N. Effect of time-of-day of aerobic maximal exercise on the sleep quality of trained subjects Biological Rhythm Research 2012, 43(3) 323-330.
- 779.Hausfater P, Megarbane B, Fabricatore L, Dautheville S, Patzak A, Andronikof M, Santin A, Kierzek G, Doumenc B, Leroy C, Manamani J, Pevirieri F, Riou B. Serum sodium abnormalities during nonexertional heatstroke: Incidence and prognostic values American Journal of Emergency Medicine 2012, 30(5) 741-748.
- 780.Hong J-Y, Lai Y-C, Chang C-Y, Chang S-C, Tang G-J. Successful treatment of severe heatstroke with therapeutic hypothermia by a noninvasive external cooling system Annals of Emergency Medicine 2012, 59(6) 491-493.
- 781.Chen W-L, Hsieh C-L. Acupuncture research in Taiwan Taiwanese Journal of Obstetrics and Gynecology 2012, 51(2) 179-185.
- 782.Diehn FE, Morris JM. Acute contralateral submandibular sialadenitis as a complication of skull base surgery Clinical Neuroradiology 2012, 22(2) 161-163.
- 783.Norman Harden R. The diagnosis of CRPS: Are we there yet? Pain 2012, 153(6) 1142-1143.
- 784.Folegatti A, Farne A, Salemm R, de Vignemont F. The Rubber Hand Illusion: Two's a company, but three's a crowd Consciousness and Cognition 2012, 21(2) 799-812.
- 785.Burke S, Hanani M. The actions of hyperthermia on the autonomic nervous system: Central and peripheral mechanisms and clinical implications Autonomic Neuroscience: Basic and Clinical 2012, 168(1)-2 4-13.
- 786.Fechir M, Birklein F. From Sudeck's dystrophy to complex regional pain syndrome Nervenheilkunde 2012, 31(3) 154-159.
- 787.Lukovic TZ, Ristic B, Jovanovic Z, Rancic N, Ristic DI, Cukovic S. Complex regional pain syndrome type I in the upper extremity - How efficient physical therapy and rehabilitation are Medicinski Glasnik 2012, 9(2) 334-340.
- 788.Chu H, Li M-H, Juan S-H, Chiou W-Y. Effects of transcutaneous electrical nerve stimulation on motion sickness induced by rotary chair: A crossover study Journal of Alternative and Complementary Medicine 2012, 18(5) 494-500.
- 789.de Salas-Cansado M, Perez C, Saldana MT, Navarro A, Rejas J. A Cost-Effectiveness Analysis of the Effect of Pregabalin Versus Usual Care in the Treatment of Refractory Neuropathic Pain in Routine Medical Practice in Spain Pain Medicine United States 2012, 13(5) 699-710.
- 790.Iwata O, Nabetani M, Takenouchi T, Iwaibara T, Iwata S, Tamura M. Hypothermia for neonatal encephalopathy: Nationwide Survey of Clinical Practice in Japan as of August 2010 Acta Paediatrica, International Journal of Paediatrics 2012, 101(5) e197-e202.
- 791.Kramer C, Freeman WD, Larson JS, Hoffman-Snyder C, Wellik KE, Demerschalk BM, Wingerchuk DM. Therapeutic hypothermia for severe traumatic brain injury: A critically appraised topic Neurologist 2012, 18(3) 173-177.
- 792.Roberge RJ, Kim J-H, Benson SM. Absence of consequential changes in physiological, thermal and subjective responses from wearing a surgical mask Respiratory Physiology and Neurobiology 2012, 181(1) 29-35.
- 793.Campos F, Blanco M, Barral D, Agulla J, Ramos-Cabrer P, Castillo J. Influence of temperature on ischemic brain: Basic and clinical principles Neurochemistry International 2012, 60(5) 495-505.
- 794.Vilke GM, Bozeman WP, Dawes DM, Demers G, Wilson MP. Excited delirium syndrome (ExDS): Treatment options and considerations Journal of Forensic and Legal Medicine 2012, 19(3) 117-121.
- 795.Laura F, Mori A, Tataranno ML, Muraca MC, Rodriguez DC, Giomi S, Coviello C, Buonocore G. Therapeutic hypothermia in a late preterm infant Journal of Maternal-Fetal and Neonatal Medicine 2012, 25(Suppl.) 125-127.
- 796.Lee SA, Alston TA. A little hypothermia goes a long way Critical Care Medicine 2012, 40(4) 1369-1370.
- 797.Sayorwan W, Siripornpanich V, Piriapunyaporn T, Hongratanaworakit T, Kotchabhakdi N, Ruangrungsi N. The effects of lavender oil inhalation on emotional states, autonomic nervous system, and brain electrical activity Journal of the Medical Association of Thailand 2012, 95(4) 598-606.
- 798.Livingston EH, Lynn C. Steroid injections to treat back pain JAMA - Journal of the American Medical Association 2012, 308(19) 2047.
- 799.Hamalainen P, Ikonen A, Romberg A, Helenius H, Ruutiainen J. The effects of heat stress on cognition in persons with multiple sclerosis Multiple Sclerosis 2012, 18(4) 489-497.
- 800.Terkawi AS, Wani TM, Al-Shuaibi KM, Tobias JD. Anesthetic considerations in Leigh disease: Case report and literature review Saudi Journal of Anaesthesia 2012, 6(2) 181-185.
- 801.Sant'Anna G, Laptook AR, Shankaran S, Bara R, McDonald SA, Higgins RD, Tyson JE, Ehrenkranz RA, Das A, Goldberg RN, Walsh MC. Phenobarbital and temperature profile during hypothermia for hypoxic-ischemic encephalopathy Journal of Child Neurology 2012, 27(4) 451-457.
- 802.Bannai M, Kawai N. New therapeutic strategy for amino acid medicine: Glycine improves the quality of sleep Journal of Pharmacological Sciences 2012, 118(2) 145-148.
- 803.Matsui T, Ii K, Hojo S, Sano K. Cervical neuro-muscular syndrome: Discovery of a new disease group caused by abnormalities in the cervical muscles Neurologia Medico-Chirurgica 2012, 52(2) 75-80.
- 804.Park KH, Baik JK, Yoo TW. What is evidence-based acupuncture? A comparative review of traditional acupuncture and Korean hand acupuncture therapy Medical Acupuncture 2012, 24(1) 27-37.
- 805.Bolwig TG. Historical aspects of danish psychiatry Nordic Journal of Psychiatry 2012, 66(Suppl.) 5-13.
- 806.Nybo L. Brain temperature and exercise performance Experimental Physiology 2012, 97(3) 333-339.
- 807.Wilder-Smith EP, Therimadasamy A. Color and power Doppler US for diagnosing carpal tunnel syndrome and determining its severity Radiology 2012, 262(3) 1043-1044.

- 808.Wankhede M, Bouras A, Kaluzova M, Hadjipanayis CG. Magnetic nanoparticles: An emerging technology for malignant brain tumor imaging and therapy Expert Review of Clinical Pharmacology 2012, 5(2) 173-186.
- 809.Demir F, Sekreter O. Knowledge, attitudes and misconceptions of primary care physicians regarding fever in children: A cross sectional study Italian Journal of Pediatrics 2012, 38(1) Article Number: 40.
- 810.Henderson WA, Thomas DA, Cantor FK, Hunter CM. News from NIH: Pain management Translational Behavioral Medicine 2012, 2(1) 1-2.
- 811.Fernandez-De-Las-Peas C. Ask the experts: Myofascial pain management: Diagnosis, treatment options and challenges Pain Management 2012, 2(2) 113-115.
- 812.Jones GT, Heine PJ. Challenges in the management of distal arm pain Pain Management 2012, 2(2) 97-100.
- 813.Dijk D-J, Duffy JF, Silva EJ, Shanahan TL, Boivin DB, Czeisler CA. Amplitude reduction and phase shifts of Melatonin, cortisol and other circadian rhythms after a gradual advance of sleep and light exposure in humans PLoS ONE 2012, 7(2) Article Number: e30037.
- 814.Blanco M, Campos F, Rodriguez-Yanez M, Arias S, Fernandez-Ferro J, Gomez-Sanchez JC, Castillo J. Neuroprotection or increased brain damage mediated by temperature in stroke is time dependent PLoS ONE 2012, 7(2) Article Number: e30700.
- 815.Rango M, Arighi A, Bonifati C, Bresolin N. Increased brain temperature in Parkinson's disease NeuroReport 2012, 23(3) 129-133.
- 816.Lo SY. Diagnosis, treatment and prevention of autism via meridian theory American Journal of Chinese Medicine 2012, 40(1) 39-56.
- 817.Akkas M, Metin Aksu N, Gunalp M, Cetinkaya Sardan Y. Accuracy of fever perception and estimation of fever by touching Türkiye Klinikleri Journal of Medical Sciences 2012, 32(2) 371-375
- 818.Sakai K, Yamada K, Sugimoto N. Calculation methods for ventricular diffusion-weighted imaging thermometry: Phantom and volunteer studies NMR in Biomedicine 2012, 25(2) 340-346.
- 819.Takenouchi T, Iwata O, Nabetani M, Tamura M. Therapeutic hypothermia for neonatal encephalopathy: JSPNM & MHLW Japan Working Group Practice Guidelines. Consensus Statement from the Working Group on Therapeutic Hypothermia for Neonatal Encephalopathy, Ministry of Health, Labor and Welfare (MHLW), Japan, and Japan Society for Perinatal and Neonatal Medicine (JSPNM) Brain and Development 2012, 34(2) 165-170.
- 820.Praninskiene R, Dumalakiene I, Kemezys R, Mauricas M, Jucaite A. Melatonin secretion in children with epilepsy Epilepsy and Behavior 2012, 25(3) 315-322.
- 821.Lavinio A, Sanfilippo F, Gupta AK. Therapeutic hypothermia: Heat transfer from warmed tracheal tubes to oesophageal temperature probes poses risk of life-threatening overcooling British Journal of Anaesthesia 2012, 108(2) 328-329.
- 822.Sakai R, Okumura A, Marui E, Nijima S, Shimizu T. Does fever phobia cross borders? the case of Japan Pediatrics International 2012, 54(1) 39-44.
- 823.Pezzella FR, Anticoli S, Pozzessere C. Muscle, peripheral nerve and autonomic changes Frontiers of Neurology and Neuroscience 2012, 30 79-82.
- 824.Moens M, Droogmans S, Spapen H, De Smedt A, Brouns R, Van Schuerbeek P, Luybaert R, Poelaert J, Nuttin B. Feasibility of cerebral magnetic resonance imaging in patients with externalised spinal cord stimulator Clinical Neurology and Neurosurgery 2012, 114(2) 135-141.
- 825.Suspected heat-related illness calls for immediate treatment American Family Physician 2012, 85(2) 92. 20120115
- 826.Iwashita H, Matsukawa T. Measurement and management of body temperature Japanese Journal of Anesthesiology 2012, 61(1) 42-46.
- 827.Castillo M. A knight at Keen's table: Ernest H. Wood American Journal of Neuroradiology 2012, 33(1) 1-3.
- 828.Thomas N. Whole body cooling in newborn infants with perinatal asphyxial encephalopathy Indian Pediatrics 2012, 49(1) 75
- 829.Ebisch SJ, Aureli T, Bafunno D, Cardone D, Romani GL, Merla A. Mother and child in synchrony: Thermal facial imprints of autonomic contagion Biological Psychology 2012, 89(1) 123-129
- 830.Wuyts J, De Valck E, Vandekerckhove M, Pattyn N, Bulckaert A, Berckmans D, Haex B, Verbraecken J, Cluydts R. The influence of pre-sleep cognitive arousal on sleep onset processes International Journal of Psychophysiology 2012, 83(1) 8-15.
- 831.Wang F, Zhang J, Han Z-Y, Cheng Z-G, Zhou H-Y, Feng L, Hu D-M. Imaging manifestation of conventional and contrast enhanced ultrasonography in percutaneous microwave ablation for the treatment of uterine fibroids. European Journal of Radiology 2012, 81(11) 2947-2952.
- 832.Whyte RK. Neonatal management and safe discharge of late and moderate preterm infants. Seminars in Fetal and Neonatal Medicine 2012, 17(3) 153-158.
- 833.Asl Entezari M, Isazadehfard K, Akhavanakbari G, Khoshbaten M. The effect of ondansetron in prevention of postoperative shivering after general anesthesia in gynecological surgery. Iranian Red Crescent Medical Journal 2012, 14(5) 316-317.
- 834.Khan KS, Champaneria R, Latthe PM. How effective are non-drug, non-surgical treatments for primary dysmenorrhoea? BMJ Online 2012, 344(7)858 Article Number: e3011.
- 835.Chung SH, Lee B-S, Yang HJ, Kweon KS, Kim H-H, Song J, Shin DW. Effect of preoperative warming during cesarean section under spinal anesthesia. Korean Journal of Anesthesiology 2012, 62(5) 454-460.
- 836.Singh N, Hassanaein M. Comparing satisfaction rates of microwave and bipolar impedance controlled endometrial ablation. Archives of Gynecology and Obstetrics 2012, 285(5) 1301-1305.
- 837.O'Neill S, Eden J. The pathophysiology of menopausal symptoms. Obstetrics, Gynaecology and Reproductive Medicine 2012, 22(3) 63-69.
- 838.Jaynes AC, Scott KE. Intrapartum Care the Midwifery Way: A Review. Primary Care - Clinics in Office Practice 2012, 39(1) 190-206.
- 839.Chaudhry S, Berkley C, Warren M. Perimenopausal vaginal bleeding: Diagnostic evaluation and therapeutic options. Journal of Women's Health 2012, 21(3) 302-310.
- 840.Techanivate A, Dusitkasem S, Anuwattanavit C. Dexmedetomidine compare with fentanyl for postoperative analgesia in outpatient gynecologic laparoscopy: A randomized controlled trial. Journal of the Medical Association of Thailand 2012, 95(3) 383-390.
- 841.Latthe P, Champaneria R, Khan K. Dysmenorrhoea. American Family Physician 2012, 85(4) 386-387.
- 842.Huancahuari N. Emergencies in Early Pregnancy. Emergency Medicine Clinics of North America 2012, 30(4) 837-847.
- 843.Shatken S, Greenough K, Mcpherson C. Epidural Fever and Its Implications for Mothers and Neonates: Taking the Heat. Journal of Midwifery and Women's Health 2012, 57(1) 82-85.
- 844.Glackin KG, Harper MA. Postpartum pyrexia. Obstetrics, Gynaecology and Reproductive Medicine 2012, 22(11) 327-332.
- 845.Anaraki AN, Mirzaei K. The effect of different intrathecal doses of meperidine on shivering during delivery under spinal anesthesia. International Journal of Preventive Medicine 2012, 3(10) 706-712.
- 846.Baombe JP. Towards evidence-based emergency medicine: Best BETs from the Manchester Royal Infirmary. Emergency Medicine Journal 2012, 29(10) 853.
- 847.Harel Z. Dysmenorrhoea in adolescents and young adults: An update on pharmacological treatments and management strategies. Expert Opinion on Pharmacotherapy 2012, 13(15) 2157-2170
- 848.Carpenter L, Baysinger CL. Maintaining perioperative normothermia in the patient undergoing cesarean delivery. Obstetrical and Gynecological Survey 2012, 67(7) 436-446.
- 849.Pabinger C, Heu C, Frohner A, Dimai HP. Pregnancy and lactation associated transient osteoporosis of both hips in a 32-year old patient with osteogenesis imperfecta. Bone 2012, 51(1) 142-144.
- 850.Tomlinson TM, Schaecher C, Sadovsky Y, Gross G. Intra-uterine temperature during intrapartum amnioinfusion: A pro-

spective observational study. *BJOG: An International Journal of Obstetrics and Gynaecology* 2012, 119(8) 958-963.

851.Al-Agha A, Ocheltree A, Rashad R, Abdelsalam I. Metabolic cataract in an 8-year-old diabetic boy. *Turkish Journal of Pediatrics* 2012, 54(1) 83-85.

852.Kaliszan M. First practical applications of eye temperature measurements for estimation of the time of death in casework. Report of three cases. *Forensic Science International* 2012, 219(1-3) e13-e15.1

853.Kantarci FA, Ozdek S. Choroidal malignant melanomas: Conservative treatments. *Retina-Vitreus* 2012, 20(2) 79-87.

854.Kawamura R, Ideta H, Hori H, Yuki K, Uno T, Tanabe T, Tsubota K, Kawasaki T. Transpupillary thermotherapy for atypical central serous chorioretinopathy. *Clinical Ophthalmology* 2012, 6(1) 175-179.

855.Knutsson KA, De Benedetto U, Querques G, Del Turco C, Bandello F, Lattanzio R. Primitive retinal vascular abnormalities: Tumors and telangiectasias. *Ophthalmologica* 2012, 228(2) 67-77

856.Kotoulas C, Papadakis D, Panagiotou I. Iatrogenic bilateral eyelid ecchymosis. *Pneumon* 2012, 25(1).

857.Kotsidis ST, Lake SS, Alexandridis AD, Ziakas NG, Ekonomidis PK. 24-Hour variation of optical coherence tomography-measured retinal thickness in diabetic macular edema. *European Journal of Ophthalmology* 2012, 22(5) 785-791.

858.Kwon HJ, Kim M, Lee CS, Lee SC. Treatment of serous macular detachment associated with circumscribed choroidal hemangioma. *American Journal of Ophthalmology* 2012, 154(1) 137-145.

859.Neelam K, Cheung CMG, Ohno-Matsui K, Lai TYY, Wong TY. Choroidal neovascularization in pathological myopia. *Progress in Retinal and Eye Research* 2012, 31(5) 495-525.

860.Nowak MS, Jurowski P, Grzybowski A, Gos R, Pastuszka M, Kapica A, Smigielski J. A prospective study on different methods for the treatment of choroidal neovascularization: the efficacy of verteporfin photodynamic therapy, intravitreal bevacizumab and transpupillary thermotherapy in patients with neovascular age-related macular degeneration. *Medical Science Monitor* 2012, 18(6) CR374-CR380.

861.Soderberg A-C, Algvere PV, Hengstler JC, Soderberg P, Seregard S, Kvanta A. Combination therapy with low-dose transpupillary thermotherapy and intravitreal ranibizumab for neovascular age-related macular degeneration: A 24-month prospective randomised clinical study. *British Journal of Ophthalmology* 2012, 96(5) 714-718.

862.Tabernero J, Ohlendorf A, Fischer MD, Bruckmann AR, Schiefer U, Schaeffel F. Peripheral refraction in pseudophakic eyes measured by infrared scanning photorefractometry. *Journal of Cataract and Refractive Surgery* 2012, 38(5) 807-815.

863.Waduthantri S, Yong SS, Tan CH, Shen L, Lee MX, Nagarajan S, Hla MH, Tong L. Cost of dry eye treatment in an Asian clinic setting. *PLoS ONE* 2012, 7(6) Article Number: e37711.

864.Chu H, Li M-H, Ye N-Y, Chiou W-Y. Effects of cranial electrostimulation on motion sickness induced by Coriolis stimulation. *Journal of Medical Sciences* 2012, 32(2) 69-74.

865.Monobe H, Miyano K, Kagoya R, Tojima H. Case of progressive facial hemiatrophy with cervical sympathetic hyperactivity as underlying aetiology. *Journal of Laryngology and Otolaryngology* 2012, 126(7) 725-728.

866.Yang L, Shi X-X, Piao G-B, Zhang T-F. Comparison of curative effects between 4 kinds of methods to treat gingival hyperplasia caused by ill PFM. *Journal of Jilin University Medicine Edition* 2012, 38(2) 341-345.

867.Ahmad I, Khan QA, Iqbal H, Khattak KK, Rehman H. Correlation of axillary temperature with rectal temperature in clinically unstable neonates. *JPMI - Journal of Postgraduate Medical Institute* 2012, 26(3) 242-247.1 2011

868.Ahmad I, Khan QA, Iqbal H, Khattak KK, Rehman H. Correlation of axillary temperature with rectal temperature in clinically unstable neonates. *Journal of Postgraduate Medical Institute* 2012, 26(3) 242-247.

869.Bhandankar M, Patil VD, Vidyasagar D. Differences in thermal adaptation of infants delivered at primary or tertiary care facilities in India. *Journal of Perinatology* 2012, 32(7) 502-507.

870.Cano Corral C, Gonzalez Rodriguez ML, Perez Martinez JJ, Alarcon-Payer C, Martinez Lopez I, Rabasco Alvarez A. Description and characterization of an oily omeprazole suspension for administration in children. *Ars Pharmaceutica* 2012, 53(2) 29-35.

871.Chiappini E, Venturini E, Principi N, Longhi R, Tovo P-A, Becherucci P, Bonsignori F, Esposito S, Festini F, Galli L, Lucchesi B, Mugelli A, de Martino M. Update of the 2009 Italian Pediatric Society Guidelines About Management of Fever in Children. *Clinical Therapeutics* 2012, 34(7) 1648-1653.e3.

872.Ebisu K, Bell ML. Airborne PM(2.5) chemical components and low birth weight in the northeastern and Mid-Atlantic regions of the United States. *Environmental Health Perspectives* 2012, 120(12) 1746-1752.

873.Eldaba AA, Amr YM. Premedication with granisetron reduces shivering during spinal anaesthesia in children. *Anaesthesia and Intensive Care* 2012, 40(1) 150-153.

874.Fehr JJ, Honkanen A, Murray DJ. Simulation in pediatric anesthesiology. *Paediatric Anaesthesia* 2012, 22(10) 988-994.

875.Freer Y, Lyon A. Temperature monitoring and control in the newborn baby. *Paediatrics and Child Health* 2012, 22(4) 127-130

876.Giacioia GP, Taylor-Zapata P, Zajicek A. Eunice Kennedy Shriver National Institute of Child Health and Human Development Pediatrics Formulation Initiative: Proceedings from the Second Workshop on Pediatric Formulations. *Clinical Therapeutics* 2012, 34(11) S1-S10.

877.Juskewitch JE, Prasad S, Santillan Salas CF, Huskins WC. Reliability of the identification of the systemic inflammatory response syndrome in critically ill infants and children. *Pediatric Critical Care Medicine* 2012, 13(1) e55-e57.

878.Langhan ML, Mallory M, Hertzog J, Lowrie L, Cravero J. Physiologic monitoring practices during pediatric procedural sedation: A report from the Pediatric Sedation Research Consortium. *Archives of Pediatrics and Adolescent Medicine* 2012, 166(11) 990-998.

879.New K, Flint A, Bogossian F, East C, Davies MW. Transferring preterm infants from incubators to open cots at 1600 g: A multicentre randomised controlled trial. *Archives of Disease in Childhood: Fetal and Neonatal Edition* 2012, 97(2) F88-F92.

880.Senel S, Erkek N, Karacan CD. Comparison of acetaminophen and ketoprofen in febrile children: A single dose randomized clinical trial. *Indian Journal of Pediatrics* 2012, 79(2) 213-217

881.Sharma A, Karnik H, Kukreja S, Jagger K. Malignant hyperthermia: Dantrolene sodium - a must have. *Indian Journal of Anaesthesia* 2012, 56(2) 212-213.

882.Shearman AD, Hou D, Dunster KR, Jardine L. Heating of gases during neonatal resuscitation: A bench study. *Resuscitation* 2012, 83(3) 369-373.

883.Shukry M, Matthews L, De Armendi AJ, Kropp BP, Frimberger D, Cure JA, Mayhew J. Does the covering of children during induction of anesthesia have an effect on body temperature at the end of surgery? *Journal of Clinical Anesthesia* 2012, 24(2) 116-120

884.Skoufias E, Vinha K. Climate variability and child height in rural Mexico. *Economics and Human Biology* 2012, 10(1) 54-73.

885.Sun C, Sheng W, Yu H, Han J. Giant cell tumor of the tendon sheath: A rare case in the left knee of a 15-year-old boy. *Oncology Letters* 2012, 3(3) 718-720.

886.Thomas N, Rebekah G, Sridhar S, Kumar M, Kuruvilla KA, Jana AK. Can skin temperature replace rectal temperature monitoring in babies undergoing therapeutic hypothermia in low-resource settings? *Acta Paediatrica, International Journal of Paediatrics* 2012, 101(12) e564-e567.

887.Toltzis P. 50 Years ago in the journal of pediatrics: The use of hypothermia in pediatric emergencies. *Journal of Pediatrics* 2012, 161(5) 807.

888.Zhu LM, Stinson J, Palozzi L, Weingarten K, Hogan M-E, Duong S, Carbajal R, Campbell FA, Taddio A. Improvements in pain outcomes in a Canadian pediatric teaching hospital following implementation of a multifaceted, knowledge translation initiative. *Pain Research and Management* 2012, 17(3) 173-179.

889.Amon M, Keramidas ME, Kounalakis SN, Mekjavic IB. The effect of a sleep high-train low regimen on the finger cold-in-

- duced vasodilation response. *High Altitude Medicine and Biology* 2012, 13(1) 32-39.
890. Berland D, Rodgers P. Rational use of opioids for management of chronic nonterminal pain. *American Family Physician* 2012, 86(3) 252-258.
891. Casazza BA. Diagnosis and treatment of acute low back pain. *American Family Physician* 2012, 85(4) 343-350.
892. Egi M, Morita K. Fever in non-neurological critically ill patients: A systematic review of observational studies. *Journal of Critical Care* 2012, 27(5) 428-433.
893. Herrick AL. The pathogenesis, diagnosis and treatment of Raynaud phenomenon. *Nature Reviews Rheumatology* 2012, 8(8) 469-479.
894. Kulkarni M, Nataraj MS, Sarah C. Malignant hyperthermia-like episode in a child with Larsen syndrome. *Saudi Journal of Anaesthesia* 2012, 6(1) 86-87.
895. Shah NG, Cowan MJ, Pickering E, Sareh H, Afshar M, Fox D, Marron J, Davis J, Herold K, Shanholtz CB, Hasday JD. Nonpharmacologic approach to minimizing shivering during surface cooling: A proof of principle study. *Journal of Critical Care* 2012, 27(6) 746.e1-746.e8.
896. Singh Bajwa SJ, Gupta S, Kaur J, Singh A, Parmar SS. Reduction in the incidence of shivering with perioperative dexmedetomidine: A randomized prospective study. *Journal of Anaesthesiology Clinical Pharmacology* 2012, 28(1) 86-91.
897. Smart JL, Kaliszán M. The post mortem temperature plateau and its role in the estimation of time of death. A review. *Legal Medicine* 2012, 14(2) 55-62.
898. Stankov SV. Definition of inflammation, causes of inflammation and possible anti-inflammatory strategies. *Open Inflammation Journal* 2012, 5: 1-9.
899. Tahririan MA, Motifard M, Tahmasebi MN, Siavashi B. Plantar fasciitis. *Journal of Research in Medical Sciences* 2012, 17(8) 799-804.
900. Vera P, Zapata L, Gich I, Mancebo J, Betbese AJ. Hemodynamic and antipyretic effects of paracetamol, metamizol and dexametoprolen in critical patients. *Medicina Intensiva* 2012, 36(9) 619-625.
901. Ait-Oufella H, Galbois A, Baudel J-L, Margetis D, Alves M, Offenstadt G, Maury E, Guidet B. Skin microcirculatory examination during septic shock. *Reanimation* 2012, 21(2) 128-133.
902. Bamgbade OA. Perioperative temperature management in day-case surgical patients. *European Journal of Anaesthesiology* 2012, 29(7) 354-355.
903. Cancio LC, Lundy JB, Sheridan RL. Evolving Changes in the Management of Burns and Environmental Injuries. *Surgical Clinics of North America* 2012, 92(4) 959-986.
904. Chadha R, Gupta S, Pathak N. Artesunate-loaded chitosan/lecithin nanoparticles: Preparation, characterization, and in vivo studies. *Drug Development and Industrial Pharmacy* 2012, 38(12) 1538-1546.
905. Chon JY, Lee JY. The effects of surgery type and duration of tourniquet inflation on body temperature. *Journal of International Medical Research* 2012, 40(1) 358-365.
906. Elmawgood AA, Rashwan S, Rashwan D. Efficacy of prophylactic use of hydrocortisone and low dose ketamine for prevention of shivering during spinal anesthesia. *Egyptian Journal of Anaesthesia* 2012, 28(3) 217-221.
907. Fernandes LA, Braz LG, Koga FA, Kakuda CM, Modolo NSP, De Carvalho LR, Vianna PTG, Braz JRC. Comparison of peri-operative core temperature in obese and non-obese patients. *Anaesthesia* 2012, 67(12) 1364-1369.
908. Friberg H. Induction of mild hypothermia by noninvasive body cooling in healthy, unanesthetized subjects: Editorial commentary on bandschapp et al., 2011.1 Therapeutic Hypothermia and Temperature Management 2012, 2(2) 50.
909. Helm II S, Deer TR, Manchikanti L, Datta S, Chopra P, Singh V, Hirsch JA. Effectiveness of thermal annular procedures in treating discogenic low back pain. *Pain Physician* 2012, 15(3) E279-E304.
910. Hocker J, Bein B, Bohm R, Steinfath M, Scholz J, Horn E-P. Correlation, accuracy, precision and practicability of peroperative measurement of sublingual temperature in comparison with tympanic membrane temperature in awake and anaesthetized patients. *European Journal of Anaesthesiology* 2012, 29(2) 70-74.
911. Horn E-P, Bein B, Bohm R, Steinfath M, Sahili N, Hocker J. The effect of short time periods of pre-operative warming in the prevention of peri-operative hypothermia. *Anaesthesia* 2012, 67(6) 612-617.
912. Inada E. Usefulness and limitations of monitoring in peri-operative care: Preface and comments. *Japanese Journal of Anesthesiology* 2012, 61(1) 2-4.
913. Keevil SF. Physics and medicine: A historical perspective. *The Lancet* 2012, 379(9) 825 1517-1524.
914. Khdour MR, Hallak HO. Original societal perspectives on community pharmacy services in West Bank - Palestine. *Pharmacy Practice* 2012, 10(1) 17-24.
915. Kocher MS, Frank JS, Nasreddine AY, Safran MR, Philippon MJ, Sekiya JK, Kelly BT, Byrd JWT, Guanche CA, Martin HD, Clohisy JC, Mohtadi NG, Griffin DR, Sampson TG, Leunig M, Larson CM, Ilizaliturri Jr VM, McCarthy JC, Gambacorta PG. Intra-abdominal fluid extravasation during hip arthroscopy: A survey of the MAHORN group. *Arthroscopy - Journal of Arthroscopic and Related Surgery* 2012, 28(11) 1654-1660.
916. Kort ME, Kym PR. TRPV1 antagonists: Clinical setbacks and prospects for future development. *Progress in Medicinal Chemistry* 2012, 51 57-70.
917. Lin T-C, Lin C-Y, Chou C-L, Chiu C-M. Achilles tendon tear following shock wave therapy for calcific tendinopathy of the Achilles tendon: A case report. *Physical Therapy in Sport* 2012, 13(3) 189-192.
918. Newport M. BET 3: In patients with heatstroke is whole-body ice-water immersion the best cooling method?. *Emergency Medicine Journal* 2012, 29(10) 855-856.
919. Nicola TL, El Shami A. Rehabilitation of Running Injuries. *Clinics in Sports Medicine* 2012, 31(2) 351-372.
920. Nonose Y, Sato Y, Kabayama H, Arisawa A, Onodera M, Imanaka H, Nishimura M. Accuracy of recorded body temperature of critically ill patients related to measurement site: A prospective observational study. *Anaesthesia and Intensive Care* 2012, 40(5) 820-824.
921. Omar AM. Effect of systemic lidocaine infusion on train-of-four ratios during recovery from general anesthesia. *Egyptian Journal of Anaesthesia* 2012, 28(4) 281-286.
922. Peretz S, Regev O. Carbon nanotubes as nanocarriers in medicine. *Current Opinion in Colloid and Interface Science* 2012, 17(6) 360-368.
923. Richard J-L, Almasri M, Schuldiner S. Treatment of acute Charcot foot with bisphosphonates: A systematic review of the literature. *Diabetologia* 2012, 55(5) 1258-1264.
924. Sun L, Zhang L, Wang K, Wang W, Tian M. Fungal osteomyelitis after arthroscopic anterior cruciate ligament reconstruction: A case report with review of the literature. *Knee* 2012, 19(5) 728-731.
925. Takagi M, Sakata K, Someya M, Matsumoto Y, Tauchi H, Hareyama M, Fukushima M. The combination of hyperthermia or chemotherapy with gimeracil for effective radiosensitization. *Strahlentherapie und Onkologie* 2012, 188(3) 255-261.
926. Van Genderen ME, Van Bommel J, Lima A. Monitoring peripheral perfusion in critically ill patients at the bedside. *Current Opinion in Critical Care* 2012, 18(3) 273-279.
927. Varon J, Marik PE, Einav S. Therapeutic hypothermia: A state-of-the-art emergency medicine perspective. *American Journal of Emergency Medicine* 2012, 30(5) 800-810.
928. Wright AA, Hegedus EJ. Augmented home exercise program for a 37-year-old female with a clinical presentation of femoroacetabular impingement. *Manual Therapy* 2012, 17(4) 358-363.
929. Yang J, Zhuang H, Servaes S. Fever of unknown origin: The roles of FDG PET or PET/CT. *PET Clinics* 2012, 7(2) 181-189.
930. Almudehki F, Girard O, Grantham J, Racinais S. Hot ambient conditions do not alter intermittent cycling sprint performance. *Journal of Science and Medicine in Sport* 2012, 15(2) 148-152.

- 931.Bain AR, Lesperance NC, Jay O. Body heat storage during physical activity is lower with hot fluid ingestion under conditions that permit full evaporation. *Acta Physiologica* 2012, 206 (2) 98-108.
- 932.Binder K, Lynn AG, Gagnon D, Kondo N, Kenny GP. Hyperthermia modifies muscle metaboreceptor and baro-receptor modulation of heat loss in humans. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology* 2012, 302(4) R417-R423.
- 933.Bostock H, Baumann C, Humm AM, Z'Graggen WJ. Temperature dependency of human muscle velocity recovery cycles. *Muscle and Nerve* 2012, 46(2) 264-266.
- 934.Brazaitis M, Skurvydas A, Pukenas K, Daniuseviciute L, Mickeviciene D, Solianik R. The effect of temperature on amount and structure of motor variability during 2-minute maximum voluntary contraction. *Muscle and Nerve* 2012, 46(5) 799-809.
- 935.Burtscher M, Kofler P, Gatterer H, Faulhaber M, Philippe M, Fischer K, Walther R, Hertel A. Effects of lightweight outdoor clothing on the prevention of hypothermia during low-intensity exercise in the cold. *Clinical Journal of Sport Medicine* 2012, 22(6) 505-507.
- 936.Chapon P-A, Bessot N, Gauthier A, Kauffman F, Sesboue B, Moussay S. Core temperature response to cycling exercise: Effect of time of day and measurement site. *Journal of Thermal Biology* 2012, 37(4) 355-360.
- 937.Downs CT, Zungu MM, Brown M. Seasonal effects on thermoregulatory abilities of the Wahlberg's epauletted fruit bat (*Epomophorus wahlbergi*) in KwaZulu-Natal, South Africa. *Journal of Thermal Biology* 2012, 37(2) 144-150.
- 938.Fournet D, Redortier B, Havenith G. A method for whole-body skin temperature mapping in humans. *Thermology International* 2012, 22(4) 157-159.
- 939.Gordon CJ. The mouse: An "average" homeotherm. *Journal of Thermal Biology* 2012, 37(4) 286-290.
- 940.Hartley GL, Flouris AD, Pyley MJ, Cheung SS. The effect of a covert manipulation of ambient temperature on heat storage and voluntary exercise intensity. *Physiology and Behavior* 2012, 105(5) 1194-1201.1
- 941.Hoffmann ME, Rodriguez SM, Zeiss DM, Wachsberg KN, Kushner RF, Landsberg L, Linsenmeier RA. 24-h core temperature in obese and lean men and women. *Obesity* 2012, 20(8) 1585-1590.
- 942.Klonizakis M. Studying the cutaneous microcirculatory response during upper-limb exercise in healthy, older, sedentary people. *Clinical Hemorheology and Microcirculation* 2012, 51(1) 69-75.
- 943.Lee JKW, Nio AQX, Fun DCY, Teo YS, Chia EV, Lim CL. Effects of heat acclimatisation on work tolerance and thermoregulation in trained tropical natives. *Journal of Thermal Biology* 2012, 37(5) 366-373.
- 944.Liu Y-Q, Zhang Z-W, Chen K-M. Functional MRI observation on brain processing of fabric tactile perception under different local skin temperatures. *Chinese Journal of Medical Imaging Technology* 2012, 28(7) 1272-1276.
- 945.Manzar MD, Sethi M, Hussain ME. Humidity and sleep: A review on thermal aspect. *Biological Rhythm Research* 2012, 43(4) 439-457.
- 946.Maughan RJ. Thermoregulatory aspects of performance. *Experimental Physiology* 2012, 97(3) 325-326.
- 947.Mohr M, Nybo L, Grantham J, Racinais S. Physiological responses and physical performance during football in the heat. *PLoS ONE* 2012, 7(6) Article Number: e39202.1
- 948.Paech GM, Ferguson SA, Sargent C, Kennaway DJ, Roach GD. The relative contributions of the homeostatic and circadian processes to sleep regulation under conditions of severe sleep restriction. *Sleep* 2012, 35(7) 941-948.1
- 949.Petrofsky JS, Alshammari F, Lee H, Hamdan A, Yim JE, Shetty G, Neupane S, Somanaboina K, Pathak K, Shenoy S, Dave B, Cho S, Chen W-T, Nevgi B, Moniz H, Alshaharani M, Malthane S, Desai R. Reduced endothelial function in the skin in Southeast Asians compared to Caucasians. *Medical Science Monitor* 2012, 18(1) CR1-CR8.
- 950.Petrofsky JS, Berk L. Response to "thermography, therapeutic exercise, and individuals with diabetes". *Diabetes Technology and Therapeutics* 2012, 14(10) 969-970.1
- 951.Raines J, Snow R, Petersen A, Harvey J, Nichols D, Aisbett B. Pre-shift fluid intake: Effect on physiology, work and drinking during emergency wildfire fighting. *Applied Ergonomics* 2012, 43(3) 532-540.
- 952.Sawka MN, Cheuvront SN, Kenefick RW. High skin temperature and hypohydration impair aerobic performance. *Experimental Physiology* 2012, 97(3) 327-332.
- 953.Schellen L, Loomans MGLC, de Wit MH, Olesen BW, Lichtenbelt WDM. The influence of local effects on thermal sensation under non-uniform environmental conditions - Gender differences in thermophysiology, thermal comfort and productivity during convective and radiant cooling. *Physiology and Behavior* 2012, 107(2) 252-261.1
- 954.Singh NR, Denissen EC, McKune AJ, Peters EM. Intestinal temperature, heart rate, and hydration status in multiday trail runners. *Clinical Journal of Sport Medicine* 2012, 22(4) 311-318.
- 955.Spielholz NI. Thermography, therapeutic exercise, and individuals with diabetes. *Diabetes Technology and Therapeutics* 2012, 14(10) 968.1
- 956.Tsuji B, Honda Y, Fujii N, Kondo N, Nishiyasu T. Effect of initial core temperature on hyperthermic hyperventilation during prolonged submaximal exercise in the heat. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology* 2012, 302(1) R94-R102.
- 957.Vanggaard L, Kuklane K, Holmer I, Smolander J. Thermal responses to whole-body cooling in air with special reference to arteriovenous anastomoses in fingers. *Clinical Physiology and Functional Imaging* 2012, 32(6) 463-469.
- 958.Vardasca R, Ring F, Plassmann P, Jones C. Thermal symmetry of the upper and lower extremities in healthy subjects. *Thermology International* 2012, 22(2) 53-60.
- 959.Werner RA, Franzblau A, D'arcy HJS, Evanoff BA, Tong HC. Differential aging of median and ulnar sensory nerve parameters. *Muscle and Nerve* 2012, 45(1) 60-64.
- 960.Yasuoka A, Kubo H, Tsuzuki K, Isoda N. Interindividual differences in thermal comfort and the responses to skin cooling in young women. *Journal of Thermal Biology* 2012, 37(1) 65-71.
- 961.Yoneshiro T, Aita S, Kawai Y, Iwanaga T, Saito M. Non-pungent capsaicin analogs (capsinoids) increase energy expenditure through the activation of brown adipose tissue in humans. *American Journal of Clinical Nutrition* 2012, 95(4) 845-850.1
- 962.Yuen NYW, Vincent SG, Foo B, Fisher JT. Interaction of hypoxia and core temperature: Potential role of TRPV1.1 Advances in Experimental Medicine and Biology 2012, 758 173-178
- 963.Zarrouk N, Chtourou H, Zarrouk I, Rebai H, Tabka Z, Dogui M. Diurnal variations of swim performances: Effect of water temperature. *Science and Sports* 2012, 27(2) 101-106.
- 964.Zhang L, Fang X, Zhang F, Bao Y-C. Upper limit of dynamic mean body temperature of young men trained in heat-humid environment. *Academic Journal of Second Military Medical University* 2012, 33(3) 286-291.
- 965.Alvarez RA, Pacala SW, Winebrake JJ, Chameides WL, Hamburg SP. Reply to Caldeira and Myhrvold: Radiative forcing is a useful, accepted metric to compare climate influence of alternative energy choices. *Proceedings of the National Academy of Sciences of the United States of America* 2012, 109(2) 7 E1814.
- 966.Badza V, Jovancevic V, Fratric F, Roglic G, Sudarov N. Possibilities of thermovision application in sport and sport rehabilitation. *Vojnosanitetski Pregled* 2012, 69(10) 904-907.
- 967.Becker J. Re: Suspected heat-related illness calls for immediate treatment. *American Family Physician* 2012, 85(2) 93.
- 968.Chi C-F, Shih Y-C, Chen W-L. Effect of cold immersion on grip force, EMG, and thermal discomfort. *International Journal of Industrial Ergonomics* 2012, 42(1) 113-121.
- 969.Chia M, Mukherjee S. Hydration status of heat-acclimatized youth team players during competition. *Science and Sports* 2012, 27(5) e51-e54.
- 970.Goggins WB, Chan EYY, Ng E, Ren C, Chen L. Effect modification of the association between short-term meteorological

logical factors and mortality by urban heat islands in Hong Kong. *PLoS ONE* 2012, 7(6) Article Number: e38551.

971.Govindu NK, Babski-Reeves K. Reliability of thermal readings of the skin surface over the anterior deltoid during intermittent, overhead tapping tasks. *International Journal of Industrial Ergonomics* 2012, 42(1) 136-142.

972.Laaidi K, Zeghnoun A, Dousset B, Bretin P, Vandentorren S, Giraudet E, Beaudeau P. The impact of heat islands on mortality in Paris during the August 2003 heat wave. *Environmental Health Perspectives* 2012, 120(2) 254-259.

973.Michelozzi P, Davoli M. Invest now in adaptive strategies to cope with weather instability. *BMJ Online* 2012, 344(7)852 Article Number: e2585.

974.Murakami S, Miyatake N, Sakano N. Changes in air temperature and its relation to ambulance transports due to heat stroke in all 47 prefectures of Japan. *Journal of Preventive Medicine and Public Health* 2012, 45(5) 309-315.

975.Peng S, Piao S, Ciais P, Friedlingstein P, Ottle C, Breon F-M, Nan H, Zhou L, Myneni RB. Surface urban heat island across 419 global big cities. *Environmental Science and Technology* 2012, 46(2) 696-703.

976.Sowa P, Rutkowska-Talipska J, Sulkowska U, Rutkowski K, Rutkowski R. Ionizing and non-ionizing electromagnetic radiation in modern medicine. *Polish Annals of Medicine* 2012, 19(2) 134-138.

977.Storm-Versloot MN, Knops AM, Ubbink DT, Goossens A, Legemate DA, Vermeulen H. Long-term adherence to a local guideline on postoperative body temperature measurement: Mixed methods analysis. *Journal of Evaluation in Clinical Practice* 2012, 18(4) 841-847.

978.Struyf F, De Hertogh W, Gulink J, Nijs J. Evidence-based treatment methods for the management of shoulder impingement syndrome among dutch-speaking physiotherapists: An online, web-based survey. *Journal of Manipulative and Physiological Therapeutics* 2012, 35(9) 720-726.

979.Xu Q-Y, Yang J-S, Zhu B, Yang L, Wang Y-Y, Gao X-Y. The effects of scraping therapy on local temperature and blood perfusion volume in healthy subjects. *Evidence-based Complementary and Alternative Medicine* 2012, 2012 Article Number: 490292.

980.Zwolinska M, Bogdan A. Impact of the medical clothing on the thermal stress of surgeons. *Applied Ergonomics* 2012, 43(6) 1096-1104.

981.Bombor I, Kamusella P, Wissgott C, Andresen R. Duplex-sonographic additive computer tomography-guided lumbar sympathectomy in patients with peripheral arterial occlusive disease. Peri-interventional monitoring of peripheral perfusion with near infrared spectroscopy, temperature measurement and color-coded duplex sonography. *Gefäßchirurgie* 2012, 17(4) 260-267.

982.Nasr VG, Schumann R, Bonney I, Diaz L, Ahmed I. Performance validation of a modified magnetic resonance imaging-compatible temperature probe in children. *Anesthesia and Analgesia* 2012, 114(6) 1230-1234.

983.Salgaonkar VA, Prakash P, Diederich CJ. Temperature superposition for fast computation of 3D temperature distributions during optimization and planning of interstitial ultrasound hyperthermia treatments. *International Journal of Hyperthermia* 2012, 28(3) 235-249.

984.Van Lier ALHMW, Kotte AN'TJ, Raaymakers BW, Lagendijk JJW, Van Den Berg CAT. Radiofrequency heating induced by 7T head MRI: Thermal assessment using discrete vasculature or Pennes' bioheat equation. *Journal of Magnetic Resonance Imaging* 2012, 35(4) 795-803.

985.Lange U, Müller-Ladner U, Teichmann J. Physiotherapy in outpatients with osteoporosis. Insufficient evidence for therapy success. *Zeitschrift für Rheumatologie* 2012, 71(4) 319-325.

986.Litscher G. Integrative laser medicine and high-tech acupuncture at the medical University of Graz, Austria, Europe. Evidence-based Complementary and Alternative Medicine 2012 Article Number: 103109.

987.Nakano J, Yamabayashi C, Scott A, Reid WD. The effect of heat applied with stretch to increase range of motion: A systematic review. *Physical Therapy in Sport* 2012, 13(3) 180-188.

988.Hartzell TL, Rubinstein R, Herman M. Therapeutic modalities -An updated review for the hand surgeon. *Journal of Hand Surgery* 2012, 37(3) 597-621.

989.Parodi D, Tobar C, Valderrama J, Besomi J. Author's reply. *Arthroscopy - Journal of Arthroscopic and Related Surgery* 2012, 28(8) 1046-1047.

990.Rhim B, Harkless L. Prevention: Can we stop problems before they arise?. *Seminars in Vascular Surgery* 2012, 25(2) 122-128.

991.Wang H, Hu J-H, Zhao W. Recent advances in ablation therapy of bone neoplasm. *Journal of Interventional Radiology China* 2012, 21(10) 879-883.

992.Wegener B, Zolyniak N, Gulecyuz MF, Buttner A, Von Schulze Pellengahr C, Schaffer V, Jansson V, Birkenmaier C. Heat distribution of polymerisation temperature of bone cement on the spinal canal during vertebroplasty. *International Orthopaedics* 2012, 36(5) 1025-1030.

993.Young VL. Commentary on: The impact of perioperative warming in an outpatient aesthetic surgery setting. *Aesthetic Surgery Journal* 2012, 32(5) 621.

994.Parrott AC. MDMA and temperature: A review of the thermal effects of 'Ecstasy' in humans. *Drug and Alcohol Dependence* 2012, 121(1)-2 1-9.

995.Shen Z, Zheng S, Dong K, Xiao X, Shi W. Subperitoneal pelvic exposure of elemental mercury from a broken thermometer. *Clinical Toxicology* 2012, 50(2) 145-148.

996.Zhao M, Fan C, Du J, Jiang H, Chen H, Sun H. Cue-induced craving and physiological reactions in recently and long- abstinent heroin-dependent patients. *Addictive Behaviors* 2012, 37(4) 393-398.

997.Abraham J, Fox PG, Koh S. The role of peripheral immune activation in a new clinically relevant murine model of febrile seizures. *Epilepsy Currents* 2012, 12(1) (Suppl.1).

998.Abusers H, Comer SD, Bisaga A, Jones J, Mogali S, Manubay J, Sullivan M, Vosburg S, Cooper Z, Roux P, Fogel J, Shiffrin L. Relationship between reactivity to heroin-related cues, craving, and self-administration in buprenorphine-maintained. *Neuropsychopharmacology* 2012, 38 (Suppl.1) S391-S392.

999.Airaksinen O, Kaarre M, Lasanen R, Karhu J. Cold gel effects verified by thermal skin sensors and simultaneous dynamic thermography. *Pain Practice* 2012, 12 (Suppl.1) 194-195.

1000.Aitken JF, Walker CS, Prijic G, Johnson S, Cooper GJS. Human amylin transgenic mice show elevated core body temperature and increased energy expenditure. *Endocrine Reviews* 2012, 33(3) Meeting Abstracts.

1001.Aizawa S, Nagasaka M, Sakai T, Sakata I. Negative regulation of neuromedin U mRNA expression in the rat pars tuberalis by melatonin administration. *Endocrine Reviews* 2012, 33(3) Meeting Abstracts.

1002.Alegre JF, Duarte M, Sureda Gonzalez M, Bretcha Boix P, Dussan C, Ballester A, Crespo A, Brugarolas Masllorens A. Tumor necrosis factor (alpha) and melfalan-based hyperthermic isolated limb perfusion in locally advanced extremity soft tissue sarcomas and melanomas. *Cirugia Espanola* 2012, 90(2) 114-120

1003.Alekseev SI, Ziskin MS, Fesenko EE. [Frequency dependence of heating of human skin exposed to millimeter waves]. *Biofizika* 2012, 57(1) 110-114.

1004.Allen J, Di Maria C, Perros P, Dickinson J, Murray A. Detecting inflammatory disease in patients with active thyroid eye disease. *Thermology International* 2012, 22(2) 63.

1005.Allen J. Development of a clinical vascular optics measurement facility - The newcastle upon tyne experience. *Thermology International* 2012, 22(3) 124.

1006.Altomare A, Guarino MPL, Gizzi A, Cocca S, Cherubini C, Alloni R, Filippi S, Cicala M. Effects of thermal cooling on human colonic smooth muscle contractility. *Digestive and Liver Disease* 2012, 44 (Suppl.2) S132.

1007.Altomare A, Luca Guarino MP, Gizzi A, Cocca S, Cherubini C, Alloni R, Filippi S, Cicala M. Effect of hypothermia on human colonic smooth muscle contractility. *Neurogastroenterology and Motility* 2012, 24(Suppl.2) 190.

1008.Ammer K. Temperature of the human knee - A review. *Thermology International* 2012, 22(3) 98.

- 1009.Ammer K. Variation of the longitudinal temperature gradient of fingers over time. *Thermology International* 2012, 22(2) 67
- 1010.Angusamy V, Marshall P. Anaesthesia quality assurance: Recovery indicators. *British Journal of Anaesthesia* 2012, 109(3) 473P.
- 1011.Anonymous. 12th European Congress of Thermology in Porto 2012. *Thermology International*, 2012, 22(4) 162
- 1012.Anter E, Tan A, Abdi S, Nagda JV, Buxton A, Zimetbaum P, Haffajee C, Chang J, Josephson ME. Minimally-invasive nulltest-dosenull stellate ganglion block for assessment of sympatectomy for control of ventricular tachycardia. *Heart Rhythm* 2012, 9(5) (Suppl.1) S479.
- 1013.Antunes J, Borges-Costa J, Almeida LS, Marques MS, Filipe P. Cutaneous alternariosis in a renal transplant recipient. *Journal of the American Academy of Dermatology* 2012, 66(4) (Suppl.1) AB118.
- 1014.Asahina M, Low DA, Mathias CJ, Fujinuma Y, Katagiri A, Yamanaka Y, Shimada J, Poudel A, Kuwabara S. Is the nullcold handsnull sign useful in differentiating multiple system atrophy from Parkinson's disease?. *European Journal of Neurology* 2012, 19 (Suppl.1) 323.
- 1015.Avila G. Maxilofacial commando surgery in older patients. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii160-ii161.
- 1016.Aydogan F, Balcişoy U, Belli AK, Yılmaz MH, Aydın I, Uras C, Cengiz A, Celik V, Unal H. Preoperative digital infrared thermal imaging and sentinel lymph node biopsy in the detection of regional lymph node metastases in breast cancer - Preliminary results. *European Journal of Cancer* 2012, 48 (Suppl.1) S203.
- 1017.Ayres B, Perry MJ, Issa R, Bailey MJ, Mukhtar S. BCG resistant high risk non muscle invasive bladder cancer treated with thermochemotherapy - Two year follow-up data from a single institution. *BJU International* 2012, 109 Suppl. 7 36.
- 1018.Bader MK. Hypothermia: The bedside perspective. *Therapeutic Hypothermia and Temperature Management* 2012, 2(2) 93.
- 1019.Baer L, Wade CE. Effect of severe burn and disuse on metabolism and overall activity levels in rats. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) 1126.1
- 1020.Bahammam AS, Sharif M. Sleep estimation using Body Media's SenseWearTM armband in patients with obstructive sleep Apnoea. *Journal of Sleep Research* 2012, 21 (Suppl.1) 198.
- 1021.Bahorski J, Repasky T, Ranner D, Fields A, Jackson M, Moultry L, Pierce K, Sandell M. Temperature Measurement in Pediatrics: A Comparison of the Rectal Method Versus the Temporal Artery Method. *Journal of Pediatric Nursing* 2012, 27(3) 243-247.
- 1022.Bandin C, Martinez-Nicolas A, Ordovas JM, Ros Lucas JA, Castell P, Silvente T, Madrid JA, Garaulet M. Differences in circadian rhythmicity in CLOCK 3111T/C genetic variants in moderate obese women as assessed by thermometry, actimetry and body position. *International Journal of Obesity* 2012,.
- 1023.Banz V, Mueller P, Inderbitzin D, Peterhans M, Weber S, Candinas D. Comparison of predicted versus effective microwave ablation volumes in an ex-vivo porcine liver model. *HPB* 2012, 14 (Suppl.2) 538.
- 1024.Barick KC, Hassan PA. Glycine passivated Fe₃O₄ nanoparticles for thermal therapy.. *Journal of colloid and interface science* 2012, 369(1) 96-102.
- 1025.Barker LE, Markowski AM, Henneman K. Digital infrared thermal imaging following anterior cruciate ligament reconstruction. *Journal of Orthopaedic and Sports Physical Therapy* 2012, 42(3) 292.
- 1026.Barolet D. Effects of photopreparation on type I procollagen production. *Lasers in Surgery and Medicine* 2012, 44 (Suppl.2) 4 51.
- 1027.Bartuzi P, Roman-Liu D, Wisniewski T. The influence of fatigue on muscle temperature. *International Journal of Occupational Safety and Ergonomics* 2012, 18(2) 233-243.
- 1028.Barun VV, Ivanov AP. [Temperature regime of biological tissue under photodynamic therapy]. *Biofizika* 2012, 57(1) 120-129
- 1029.Beck C, Beck Th. Long term follow up using bipolar rf thermotherapy for chronic prostatitis. *Journal of Endourology* 2012, 26 (Suppl.1) A209.
- 1030.Benko I, Koteles GJ. Histo graphic method as a tool of thermal image processing. *Thermology International* 2012, 22(3) 97-98.
- 1031.Best SL, Abel EJ, Ziemlewicz TJ, Fischman AM, Hinshaw JL, Lee FT, Brace CL, Lubner MG, Center ML, Moreland AJ, Nakada SY. Initial experience with percutaneous microwave ablation of renal tumors: Multicenter evaluation of safety and efficacy. *Journal of Endourology* 2012, 26 (Suppl.1) A40.
- 1032.Bieles JS, Bruce SA, Woledge RC, De Haan A. Menopause alters temperature sensitivity of muscle force in humans. *European Journal of Applied Physiology* 2012, 112(3) 1117-1122.
- 1033.Bigazzi B, Bigazzi B, Bani D, Bigazzi M. Clinical improvement and new femoral artery formation in a young man with Peripheral Arterial Disease (PAD) under human recombinant relaxin (hrRLX) and porcine relaxin (pRLX) treatment: An eight-year follow-up. *Endocrine Reviews* 2012, 33(3, Meeting Abstracts).MON-689
- 1034.Blazquez A, Martinez-Nicolas A, Salazar FJ, Rol MA, Madrid JA. Wrist skin temperature, motor activity, and body position as determinants of the circadian pattern of blood pressure. *Chronobiology International* 2012, 29(6) 747-756.
- 1035.Boiko E, Kulikov A, Skvortsov V. Diode-laser contact transcleral thermotherapy of ciliary body: A new treatment procedure for absolute glaucoma. *Acta Ophthalmologica* 2012, 90 (Suppl.2)50 32.
- 1036.Bouchama A. Pathogenetic mechanisms of heatstroke and novel therapies. *Critical Care* 2012, 16 (Suppl.2).
- 1037.Bourlai T, Pryor RR, Suyama J, Reis SE, Hostler D. Use of thermal imagery for estimation of core body temperature during precooling, exertion, and recovery in wildland firefighter protective clothing.. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors* 2012, 16(3) 390-399.1
- 1038.Brailsford S, Byrne L, Lattimore S, Ball JE, McDonald C, Pitt T. Bacterial screening: Clinical follow-up of positive donations, the English experience. *Transfusion* 2012, 52 (Suppl.3) 201A-202A.
- 1039.Bramono K, Rihatmadja R, Wahyuningsih R, Adawiyah R. Ulcerative cutaneous protothecosis treated with itraconazole and local heat therapy : A case report from Indonesia. *Mycoses* 2012, 55 Suppl.4 261-262.
- 1040.Braunewell S, Gunther M, Preusser T. Toward focused ultrasound liver surgery under free breathing.. *Critical reviews in biomedical engineering* 2012, 40(3) 221-234.
- 1041.Brioschi ML, Vargas JVC, Silva FMRM, Tin TY, Teixeira MJ. Method for infrared images description: 10 years of medical report experience. *Thermology International* 2012, 22(3) 102.
- 1042.Broessner G, Fischer M, Lackner P, Pfausler B, Schmutzhard E. Complications of hypothermia: Infections. *Critical Care* 2012, 16 (Suppl.2). A19
- 1043.Broessner G, Fischer M, Pfausler B, Schmutzhard E. Controlled prophylactic normothermia. *Critical Care* 2012, 16 (Suppl.2)A10
- 1044.Campbell S, Murphy P, Young M, Patke A. Characterization of circadian rhythmicity and sleep during entrainment and temporal isolation in Delayed Sleep Phase Disorder. *Journal of Sleep Research* 2012, 21 (Suppl.1) 88.
- 1045.Caparros MP, Verdu T, Ribo A, Garcia-Cayuela J, Garcia NN. Sugammadex as reversal agent in fast-track cardiovascular surgery. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii335.
- 1046.Carbone DL, Zuloaga DG, Lacagnina AF, McGivern RF, Handa RJ. Exposure to dexamethasone during late gestation causes female-specific decreases in core body temperature and prepro-thyrotropin-releasing hormone expression in the paraventricular nucleus of the hypothalamus in rats. *Physiology and Behavior* 2012,
- 1047.Cardoso A. Screening fever, a new approach. *Thermology International* 2012, 22(3) 105.
- 1048.Carnevale FC. Embolization for prostate gland hyperplasia: Is there any evidence?. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S70-S71.
- 1049.Cascales PA, Gil J, Alarcon CM, Galindo P, Gomez G, Parrilla P. [Urinary tract surgery in patients with ovarian peri-

- toneal carcinomatosis treated with cytoreduction and hyperthermic intraoperative intraperitoneal chemotherapy]. *Cirugia espanola* 2012, 90(3) 162-168.1
- 1050.Caskey CF, Hlawitschka M, Qin S, Mahakian LM, Cardiff RD, Boone JM, Ferrara K. Real-time fused CT/US for guiding therapeutic ultrasound. *Molecular Imaging and Biology* 2012, 14 (Suppl.1) S442.
- 1051.Chandratre SR, Martin K, Smith M, Davison J, Whitehouse WP. Severe metabolic acidosis: A potential serious complication of the ketogenic diet (KGD). *Developmental Medicine and Child Neurology* 2012, 54 Suppl.1 71.
- 1052.Chang JH, Shin MJ, Cha YS, Park JH. Upper extremity coldness in acute or subacute stroke patients. *Brain Injury* 2012, 26(4)-5 584.
- 1053.Chang K-H, Ho M-C, Yeh C-C, Chen Y-C, Lian F-L, Lin W-L, Yen J-Y, Chen Y-Y. Effectiveness of external respiratory surrogates for in vivo liver motion estimation. *Medical Physics* 2012, 39(8) 5293-5301.
- 1054.Chasin M. Safety and efficacy of dual 924 and 975nm wavelength laser for the treatment of primary axillary hyperhidrosis. *Lasers in Surgery and Medicine* 2012, 44 (Suppl.2) 4 7-8.
- 1055.Cheng L, Yang K, Chen Q, Liu Z. Organic stealth nanoparticles for highly effective in vivo near-infrared photothermal therapy of cancer.. *ACS nano* 2012, 6(6) 5605-5613.
- 1056.Cheuck L, Ghavamian R. Reconstruction of the posterior bladder neck following uncommon mishaps during robotic assisted radical prostatectomy. *Journal of Urology* 2012, 187(4) (Suppl.1) e499.
- 1057.Choi J, Yang J, Bang D, Park J, Suh JS, Huh YM, Haam S. Targetable gold nanorods for epithelial cancer therapy guided by near-IR absorption imaging.. *Small Weinheim an der Bergstrasse, Germany* 2012, 8(5) 746-753.
- 1058.Choi WI, Sahu A, Kim YH, Tae G. Photothermal cancer therapy and imaging based on gold nanorods.. *Annals of bio-medical engineering* 2012, 40(2) 534-546.1
- 1059.Cholewka A, Stanek A, Sieron A, Drzazga Z. Thermovision applications in whole body cryotherapy. *Thermology International* 2012, 22(2) 65.
- 1060.Christensen J, Matzen LH, Vaeth M, Schou S, Wenzel A. Thermography as a quantitative imaging method for assessing postoperative inflammation. *Dentomaxillofacial Radiology* 2012, 41(6) 494-499.
- 1061.Christensen R. Physiological and physical aspects of cutaneous cooling in heat stressed human. *Thermology International* 2012, 22(3) 120.
- 1062.Christie LE, Ansari U, Cohen MA, Braham DL. Hyperthermia post-cardiac surgery: An analysis of incidence and risk factors. *Applied Cardiopulmonary Pathophysiology* 2012, 16 (Suppl.1) 228.
- 1063.Chu J, Sun J, Templeton A, Yao R, Griem K. Thermal effusivity: A promising imaging biomarker to predict radiation-induced skin injuries. *Health Physics* 2012, 103(2) 204-209.
- 1064.Chuang L-L, Lin L-C, Cheng P-J, Chen C-H, Wu S-C, Chang C-L. Effects of a relaxation training programme on immediate and prolonged stress responses in women with preterm labour. *Journal of Advanced Nursing* 2012, 68(1) 170-180.
- 1065.Churyukanov M, Plaghki L, Legrain V, Mouraux A. Thermal detection thresholds of A(delta)- and C-fibre afferents activated by brief CO2 laser pulses applied onto the human hairy skin.. *PloS one* 2012, 7(4) e35817.
- 1066.Clements LW, Dula RJ, Buchholz VA, Stefansic JD, Deshmukh NS, Gerber DA. Experience with a laparoscopic 3-D image-guidance system in locoregional microwave ablation therapy of hepatocellular carcinoma in cirrhotic patients. *American Journal of Transplantation* 2012, 12 (Suppl.3) 538.
- 1067.Cliff D, Tierney J, McGrath C. Core temperature changes following lower limb tourniquet deflation in patients receiving sub-arachnoid anaesthesia for knee arthroplasty. *Anaesthesia* 2012, 67 (Suppl.2) 77.
- 1068.Clinical Temperature Measurement. *Thermology International* 2012, 22(2)
- 1069.Coakley FV. Primary focal therapy of prostate cancer: Role of diagnostic imaging. *Radiotherapy and Oncology* 2012, 103 (Suppl.2) S6.
- 1070.Collawn S. Contouring of the face and neck with laser liposuction. *Lasers in Surgery and Medicine* 2012, 44 (Suppl.2) 4 17-18
- 1071.Collin Y, Meziat-Burdin A, Sabbagh R. Transperitoneal laparoscopic radical nephrectomy after multiple previous abdominal surgeries and intraperitoneal hyperthermic chemotherapy: a case report.. *The Canadian journal of urology* 2012, 19(2) 6204-6206.1
- 1072.Conwell TD. The utilization of functional infrared imaging signature index protocols in staging patients with complex regional pain syndrome (CRPS). *Thermology International* 2012, 22(3) 105-106.
- 1073.Cool DW, Neshat HR, Marshal J, Barker K, Mujoomdar A, Fenster A, Kakani N. 3D ultrasound-guided percutaneous microwave ablation of hepatocellular carcinoma tumors. *Journal of Vascular and Interventional Radiology* 2012, 23(3) (Suppl.1) S114-S115.
- 1074.Courtet P. Circadian dimension and severity of depression. *European Psychiatry* 2012, 27 (Suppl.1).
- 1075.Cross A, Collard M. A reanalysis of thermoregulation in Homo erectus and Neanderthals. *American Journal of Physical Anthropology* 2012, 147 (Suppl.5) 4 122.
- 1076.Daenen HAM, Koedam J, Cheung SS. Trainability of cold induced vasodilatation in fingers and toes. *European Journal of Applied Physiology* 2012, 112(7) 2595-2601.
- 1077.Daey Ouwens IM, Fiolet ATL, Koehler PJJ, Ott A, Verhoeven WMA. Prognostic factors regarding the treatment of dementia paralytica with malaria fever therapy: A historical cohort study. *European Psychiatry* 2012, 27 (Suppl.1).
- 1078.D'Amico F, Vitale A, Bertacco A, Bassi D, Zanusi G, Cillo U. New generation microwave in the treatment of an unusual case of malignant and locally advanced rare tumor of pancreas in ASA IV patient. *HPB* 2012, 14 (Suppl.2) 693.
- 1079.De Baere T. Results and complications. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S99-S100.
- 1080.de Weerd L, Weum S, Mercer JB. Dynamic infrared thermography: a useful tool in the preoperative planning of deep inferior epigastric perforator flaps.. *Annals of plastic surgery* 2012, 68(6) 639-640; author reply 641.
- 1081.Decima P, Stephan-Blanchard E, Degrugilliers L, Delanaud S, Leke A, Tourneux P, Ghyselen L, Kongolo G, Ramadan-Ghostine G, Moreau F, Goudgil S, Fontaine C, Moussa Y, Bissuel M, Deguines C, Bach V, Libert J-P. Do pre-term neonates sleep better in incubators controlled with air or skin temperature?. *Journal of Sleep Research* 2012, 21 (Suppl.1) 299.
- 1082.Deren TM, Coris EE, Bain AR, Walz SM, Jay O. Sweating is greater in NCAA football linemen independently of heat production. *Medicine and Science in Sports and Exercise* 2012, 44(2) 244-252.
- 1083.Desgent S, Sanon NT, Duss S, Bilodeau GA, Salam MT, Sawan M, Carmant L. Postnatal stress alters hyperthermic seizure patterns in a dual pathology rat model of epileptogenesis. *Epilepsy Currents* 2012, 12(1) (Suppl.1).
- 1084.Desranleau S, Dorion RBJ. Bite Marks: Physical Properties of Ring Adhesion to Skin-Phase 2.1 *Journal of Forensic Sciences* 2012, 57(1) 201-205.
- 1085.Di Maria C, Perros P, Dickinso J, Allen J. Thermal imaging in graves' orbitopathy. *Thermology International* 2012, 22(3) 105.
- 1086.Dimaria C, Allen J, Anderson KN. Novel thermovascular changes in restless legs syndrome using thermal imaging and laser Doppler flowmetry. *Journal of Sleep Research* 2012, 21 (Suppl.1) 221.
- 1087.Dorsey P, Colli J, Lee BR. Retrograde renal hypothermia technique: Robotic partial nephrectomy in a solitary kidney. *Journal of Urology* 2012, 187(4) (Suppl.1) e868.
- 1088.Drakopoulou M, Toutouzias K, Synetos A, Stathogiannis K, Grassos H, Klonaris C, Agrogiannis G, Patsouris E, Siores E, Stefanadis C. Thermal heterogeneity of human atherosclerotic carotid arteries detected in vivo: A new non-invasive method for detection of local inflammatory activation. *European Heart Journal* 2012, 33 (Suppl.1) 239.
- 1089.Drizdal T, Paulides MM, Linthorst M, van Rhoon GC. Reconstruction of applicator positions from multiple-view images

for accurate superficial hyperthermia treatment planning.. *Physics in medicine and biology* 2012, 57(9) 2491-2503.1 7

1090.Duru CO, Akinbami FO, Orimadegun AE. A comparison of tympanic and rectal temperatures in term Nigerian neonates.. *BMC pediatrics* 2012, 12: 86.

1091.Ebisch SJ, Aureli T, Bafunno D, Cardone D, Romani GL, Merla A. Mother and child in synchrony: Thermal facial imprints of autonomic contagion. *Thermology International* 2012, 22(3) 103-104.

1092.Edelhauser F, Goebel S, Scheffer C, Cysarz D. Heart rate variability and peripheral temperature during whole body immersion at different water temperatures. *BMC Complementary and Alternative Medicine* 2012, 12 (Suppl.1).

1093.Elliott S, Yu X, Strobe S, McBean A. Comparative effectiveness of surgical therapies for benign prostatic hyperplasia. *Journal of Urology* 2012, 187(4) (Suppl.1) e28-e29.

1094.Elvidge L, James A, MacDonald I, Budge H, Symonds M. Cold induced heat production in the supraclavicular region (i.e. within brown adipose tissue (bat) and the effect of ambient temperature. *Obesity Facts* 2012, 5 (Suppl.1) 138.

1095.Ergenekon E, Hirfanoglu I, Beken S, Turan O, Kulali F, Koc E, Gucuyener K. Peripheral microcirculation is affected during therapeutic hypothermia in newborns. *Archives of Disease in Childhood: Fetal and Neonatal Edition* 2012,.

1096.Erinjeri JP, Thomas CT, Michel H, Sofocleous CT, Thornton RH, Maybody M, Alago W, Brown KT, Covey AM, Brody LA, Siegelbaum RH, Getrajdman G, Ryan R, Solomon SB. Thermal ablation of tumors alters the serum level of specific cytokines. *Journal of Vascular and Interventional Radiology* 2012, 23(3) (Suppl.1) S113-S114.

1097.Evrard S. Ablation in liver surgery. *European Journal of Surgical Oncology* 2012, 38(9) 744.

1098.Eyre S, Brafman A, Orlando R, Lerner L. Medication vs. microwave: A comparison of nocturia, voiding symptom improvement and cost. *Journal of Urology* 2012, 187(4) (Suppl.1) e117-e118.

1099.Faiz SHR, Rahimzadeh P, Entezary SR, Ziace Fard M. Intrathecal injection of magnesium sulfate: Shivering prevention during cesarean section: A randomized, double-blinded, controlled study. *Regional Anesthesia and Pain Medicine* 2012, 37(5) (Suppl.1) E222.

1100.Farrar JS, Wittwer CT. Polymerase chain reaction in less than 30 seconds. *Journal of Molecular Diagnostics* 2012, 14(6) 729.

1101.Feia K, Elliott S, Xinhua Y, Marshall McBean A. Comparative effectiveness of surgical therapies for benign prostatic hyperplasia. *Urology* 2012, 80(3) (Suppl.1) S5.

1102.Feinberg E, Vivanco M, Bellemare S, Kinkhabwala M, Chapochnik Friedmann J. Microwave ablation for cirrhotic patients with hepatocellular carcinoma with and without combination of other liver directed therapies: Long term follow up. *HPB* 2012, 14 (Suppl.1) 25-26.

1103.Feinberg EJ, Olaywi M, Vivanco M, Kinkhabwala M, Bellemare S, Friedmann JC. Microwave ablation for cirrhotic patients with hepatocellular carcinoma with and without combination of other liver directed therapies. *American Journal of Transplantation* 2012, 12 (Suppl.2) 85.

1104.Felice D, O'Leary OF, Bettler B, Cryan JF. GABA-B1 receptor subunit isoforms differentially mediate susceptibility to depression-related behaviour following early-life stress. *European Neuropsychopharmacology* 2012, 22 (Suppl.1) S96-S97.

1105.Fernandez Cabada T, de Pablo CS, Serrano AM, Guerrero FP, Olmedo JJ, Gomez MR. Induction of cell death in a glioblastoma line by hyperthermic therapy based on gold nanorods.. *International journal of nanomedicine* 2012, 7 1511-1523.

1106.Fernandez-Cuevas I, Marins JC, Gomez Carmona P, Garcia-Concepcion MA, Arnaiz Lastras J, Silletto Quintana M. Reliability and reproducibility of skin temperature of overweight subjects by an infrared thermography software designed for human beings. *Thermology International* 2012, 22(3) 95-96.

1107.Fernandez-Fernandez A, Manchanda R, Lei T, Carvajal DA, Tang Y, Kazmi SZ, McGoron AJ. Comparative study of the

optical and heat generation properties of IR820 and indocyanine green.. *Molecular imaging* 2012, 11(2) 99-113.1

1108.Fontecave-Jallon J, Calabrese P, Vettier B, Garbay C, Baconnier P. Sequential physiological analysis of daily-life recordings. *Fundamental and Clinical Pharmacology* 2012, 26 Suppl.1 46.

1109.Freckmann G, Pleus S, Westhoff A, Krinkel LG, Buhr A, Jendrike N, Haug C. Clinical performance of a device that applies local heat to the insulin infusion site: a crossover study.. *Journal of diabetes science and technology* 2012, 6(2) 320-327.1

1110.Friedmann JC, Vivanco M, Feinberg E. Surgical ablation of hepatocellular carcinomas in patients with cirrhosis and portal hypertension could be a better option than other forms of liver directed therapy. *Liver Transplantation* 2012, 18 (Suppl.1) S230.

1111.Fuentes D, Yung J, Hazle JD, Weinberg JS, Stafford RJ. Kalman filtered MR temperature imaging for laser induced thermal therapies.. *IEEE transactions on medical imaging* 2012, 31(4) 984-994.1

1112.Fukuda M, Hino H, Suzuki Y, Kikuchi C, Morimoto T, Ishii E. Postnatal interleukin-1b enhances adulthood seizure susceptibility after prolonged experimental febrile seizure in infantile rats. *Developmental Medicine and Child Neurology* 2012, 54 (Suppl.4) 119.

1113.Gabrielli D, Cardone D, Di Donato L, Pompa P, Cotroneo AR, Romani GL, Merla ZA. Scrotal infrared digital thermography for detection of subclinical varicocele. *Thermology International* 2012, 22(3) 98-99.

1114.Gagliardo E, Manuella C, Barayon E, Fontenla L, Vaula L. General anesthesia in patients with ectodermal dysplasia. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii235-ii236.

1115.Gal R, Smrcka M, Slezak M, Colonova M, Mrlian A. Mild hypothermia therapy for patients with severe brain injury: Clinical study. *Brain Injury* 2012, 26(4)-5 629-630.

1116.Gallant JK, Brimhall EJ, Bureau KM. Thermoregulation in divers with spinal cord injury. *PM and R* 2012, 4(10) (Suppl.1) S358-S359.

1117.Ganio MS, Gagnon D, Stapleton J, Crandall CG, Kenny GP. Effect of human skin grafts on whole-body heat loss during exercise heat stress: A case report. *Journal of Burn Care and Research* 2012,.

1118.Garcia-Souto MdP, Dabnicki P. Non-intrusive and continuous fever recognition system for children. *Thermology International* 2012, 22(2) 64.

1119.Garland EL, Franken IH, Sheetz JJ, Howard MO. Alcohol attentional bias is associated with autonomic indices of stress-primed alcohol cue-reactivity in alcohol-dependent patients. *Experimental and clinical psychopharmacology* 2012, 20(3) 225-235

1120.Gautam B, Parsai EI, Shvydka D, Feldmeier J, Subramanian M. Dosimetric and thermal properties of a newly developed thermorachytherapy seed with ferromagnetic core for treatment of solid tumors. *Medical Physics* 2012, 39(4) 1980-1990.

1121.George RS, Efthymiou CA, O'Regan DJ. Reduction in sternalwound infection: Back to basics. *Interactive Cardiovascular and Thoracic Surgery* 2012, 15 (Suppl.2) S127.

1122.Giesbrandt K, Walser EM. MR guided laser ablation in the chest, abdomen, and pelvis. *Journal of Vascular and Interventional Radiology* 2012, 23(3) (Suppl.1) S144.

1123.Gifford JR, Bridges J, Heal C, Marshall B, Goldthorpe S, Mack G. Changes in interstitial ATP levels and blood flow during local heating of human skin. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement).1079.12

1124.Gilfillan N, Jaggar S, Lyne J, Price S. What are the risk factors for arrhythmogenesis in grown up congenital heart disease (GUCH) patients following cardiac surgery?. *Europace* 2012, 14 (Suppl.4) iv30.

1125.Gilljam BM, Wede M. [Ear thermometers can be used in children from the age of 1 year--comparison of methods for temperature measurement in children up to 6 years]. *Lakartidningen* 2012, 109(3) 104-106.1 20 18-24

1126.Gordon CJ. Thermal physiology of laboratory mice: Defining thermoneutrality. *Journal of Thermal Biology* 2012, 37(8) 654-685.

1127. Groeschl R, Pappas S, Christians K, Hohenwarter E, Quebbeman E, Tutton S, Rilling W, Gamblin T. Microwave ablation for the treatment of liver tumors: A single-institution experience of 92 cases. *HPB* 2012, 14 (Suppl.2) 275.
1128. Guaraldi P, Calandra-Buonaura G, Grimaldi D, Cecere A, De Scisciolo G, Aito S, Caramelli R, Schiavone V, Cortelli P. Body core temperature regulation in spinal cord injury patients. *European Journal of Neurology* 2012, 19 Suppl.1 844.
1129. Guardia P, Di Corato R, Lartigue L, Wilhelm C, Espinosa A, Garcia-Hernandez M, Gazeau F, Manna L, Pellegrino T. Water-soluble iron oxide nanocubes with high values of specific absorption rate for cancer cell hyperthermia treatment. *ACS nano* 2012, 6(4) 3080-3091.
1130. Guedes JC, Quelhas Costa E, Santos Baptista J. Measuring human psychophysiological response to combined temperatures and humidities: A climatic chamber validation. *Thermology International* 2012, 22(3) 92-93.
1131. Hagblad J, Folke M, Lindberg L-G, Linden M. Technical issues related to the long-term monitoring of blood flow at different depths using LDF and PPG. *Physiological Measurement* 2012, 33(6) 985-996.
1132. Hagblad J, Folke M, Linden M. Long term monitoring of blood flow at multiple depths - observations of changes.. *Studies in health technology and informatics* 2012, 177 107-112.
1133. Hammond NE, Saxena M, Young P, Taylor C, Seppelt I, Glass P, Myburgh J. Temperature management for patients without brain injury in Australia and New Zealand ICUs: A point prevalence study. *Critical Care* 2012, 16 (Suppl.1) S21.
1134. Handa RJ. Long-term, sex-specific effects of developmental exposure to excess glucocorticoids on gene expression in the hypothalamus. *Neuropsychopharmacology* 2012, 38(Suppl.1) S18
1135. Hanna E, Simo K, Martinie J, Iannitti D, Sindram D. First human predictive model of microwave ablation volume. *HPB* 2012, 14 (Suppl.2) 518.
1136. Harris B, Andrews P, Murray G, Forbes J, Moseley O. Systematic review of head cooling in adults after traumatic brain injury and stroke. *Brain Injury* 2012, 26(4)-5 372.
1137. Havel VE, Panepinto JC. Post-transcriptional regulation of the ER stress response in *Cryptococcus neoformans*. *Mycoses* 2012, 55 Suppl.4 298.
1138. Haxton D, Doering J, Gingras L, Kelly L. Implementing Skin-To-Skin Contact at Birth Using the Iowa Model: Applying Evidence to Practice. *Nursing for Women's Health* 2012, 16(3) 220-230.
1139. He Z, Lin DC, Tan HS. An improved approach to measuring blood glucose concentration from metabolic heat: Application and clinical data. *Diabetes* 2012, 61 (Suppl.1) A589.
1140. Hellman P. Small bowel NET e Surgical issues. *European Journal of Surgical Oncology* 2012, 38(9) 792-793.
1141. Helton WS, Kohler R, Fotoohi M, Alseidi A, Rocha F, Biehl T. Transthoracic transdiaphragmatic videoscopic assisted microwave ablation (MWA) of small HCC in segment VII. *HPB* 2012, 14 (Suppl.1) 35.
1142. Heyll U. [Regional electro-hyperthermia--technical principles, clinical results and health insurance aspects] *Versicherungsmedizin / herausgegeben von Verband der Lebensversicherungs-Unternehmen e.V. und Verband der Privaten Krankenversicherung e.V* 2012, 64(2) 70-73.
1143. Higashino T, Nakagami G, Kadono T, Ogawa Y, Iizaka S, Koyanagi H, Sasaki S, Haga N, Sanada H. Combination of thermographic and ultrasonographic assessments for early detection of deep tissue injury. *International Wound Journal* 2012,.
1144. Hino H, Takahashi H, Suzuki Y, Kikuchi C, Tanaka J, Ishii E, Fukuda M. Paeoniflorin suppresses experimental febrile seizures and inhibits glutamate-mediated neuronal excitability and neuronal death. *Developmental Medicine and Child Neurology* 2012, 54 (Suppl.4) 157.
1145. Ho EY, Lerrigo R, Shen H, Arunkumar A, Connors E, Cozen M, Trimble EL, Ryan JC, Corvera CU, Monto A. All forms of curative and palliative treatment modalities confer marked survival advantage for va patients with hepatocellular carcinoma. *Hepatology* 2012, 56 (Suppl.1) 521A.
1146. Hoffmann K. Using a Nd:YAG 1440nm wavelength laser for treatment of cellulite. *Lasers in Surgery and Medicine* 2012, 44 (Suppl.2) 4 16-17.
1147. Hong KH, Forman EJ, Lee H, Ferry KM, Treff N, Scott R. Optimizing the temperature for embryo culture in IVF: A randomized controlled trial (RCT) comparing standard culture temperature of 37C to the reduced more physiologic temperature of 36C. *Fertility and Sterility* 2012, 98(3) (Suppl.1) S167.
1148. Hopman M, Eijsvogels T, Veltmeijer M, Van Geffen M, Thijssen D, Van Heerde W. Activation of hemostatic pathways by exercise induced hyperthermia. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement).1084.10
1149. Howell KJ, Collier JM. Thermography of facial skin temperature in healthy subjects during cooling of the face with heliotherapy. *Thermology International* 2012, 22(3) 101.
1150. Howell KJ, Richards RE, Allen J, Smith RE. Application of a portable, low cost thermal imager for the assessment of finger temperature after hand cold challenge. *Thermology International* 2012, 22(2) 64.
1151. Hsu C, Smarr CB, Byrne AJ, Miller SD, Bryce PJ. Rapid induction of tolerance to peanut by antigen-coupled cell transfer. *Journal of Allergy and Clinical Immunology* 2012, 129(2) (Suppl.1) AB1.
1152. Hu S-H, Chen Y-W, Hung W-T, Chen I-W, Chen S-Y. Quantum-dot-tagged reduced graphene oxide nanocomposites for bright fluorescence bioimaging and photothermal therapy monitored in situ. *Advanced Materials* 2012, 24(13) 1748-1754.
1153. Hu S-H, Liao B-J, Chiang C-S, Chen P-J, Chen I-W, Chen S-Y. Core-shell nanocapsules stabilized by single-component polymer and nanoparticles for magneto-chemotherapy/ hyperthermia with multiple drugs. *Advanced Materials* 2012, 24(2) 7 3627-3632.
1154. Hu YE, Yang HY, Li LG. [Effect of quantitative acupuncture manipulation on the skin temperature of acupoints]. *Zhongguo zhen jiu = Chinese acupuncture & moxibustion* 2012, 32(5) 423-426.
1155. Huang M, Chen W. Theoretical study on the inverse modeling of deep body temperature measurement. *Physiological Measurement* 2012, 33(3) 429-443.
1156. I am a heart attack survivor who takes medication for hypertension and high cholesterol, both of which seem to be managed well. I often hear about the dangers of overdoing it in cold weather, such as too much snow shoveling, but I wonder about what precautions heart patients should take in very hot weather. What sort of strain is the heat putting on my heart?. *Heart advisor / the Cleveland Clinic* 2012, 15(8) 8.1 Aug
1157. IJzerman H, Gallucci M, Pouw WTL, Weibgerber SC, Van Doesum NJ, Williams KD. Cold-blooded loneliness: Social exclusion leads to lower skin temperatures. *Acta Psychologica* 2012, 140(3) 283-288.
1158. Imai D, Okazaki K, Suzuki A, Takeda R, Naghavi N, Matsumura S, Miyagawa T. Whole body surface cooling before aerobic exercise decreases lactate threshold in cool environment. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement).Ib733
1159. Imbeault M-A, Mantha OL, Haman F. Skin temperature modulation of shivering response in humans. *FASEB Journal* 2012, 26 (Meeting Abstract Supplement) 1079.16.
1160. Imbeault M-A, Oneid P, Jay O, Worthylake D, Haman F. Effect of training modality on inter-individual differences in shivering pattern in humans. *FASEB Journal* 2012, 26 Meeting Abstract Supplement).1079.15
1161. Immink MA, Wright DL, Barnes WS. Temperature dependency in motor skill learning.. *Journal of motor behavior* 2012, 44(2) 105-113.1
1162. Ismael FC, Javier AL, Manuel SQ, Pedro Maria GC, Miguel Angel GDLC, Sergio PC. Daily variation of skin temperature in humans through infrared thermography. A pilot study about Orcadian rhythm. *Thermology International* 2012, 22(2) 62-63.
1163. Ivanitskii GR, Khizhniak EP, Deev AA. [Biophysical basis of medical thermovision].. *Biofizika* 2012, 57(1) 130-139.1 20-
1164. Janik H, Mau C, Kraft K. Nonlinear parameters of heart rate variability (HRV)-suitable measures to observe physiologi-

cal outcome during a peat bath in rehabilitation. *BMC Complementary and Alternative Medicine* 2012, 12 (Suppl.1).

1165.Janssens GN, Sonder P, Henry C, Beishuizen A, Rittenberger J, Callaway C, Girbes AR, Polderman KH. A prospective intervention study to compare efficiency and reliability of different cooling technologies for fever control. *Therapeutic Hypothermia and Temperature Management* 2012, 2(2) 97.

1166.Jarvis M, Guy KJ, Konig K. Comparison of infra red and digital axillary temperature monitoring in preterm infants (less-than or equal to)1500 G. *Journal of Paediatrics and Child Health* 2012, 48 (Suppl.1) 84.

1167.Jay O, Bain AR, Lesperance NC. Sudomotor activity and heat balance with serial cooling and heating of thermosensors in the esophagus and stomach. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement).1084.1

1168.Jeanmonod D, Moser D, Magara A, Kowalski M, Buhler R. Study on transcranial magnetic resonance-guided focused ultrasound treatment of neuropathic pain and movement disorders: Safety, accuracy and initial clinical outcomes. *Stereotactic and Functional Neurosurgery* 2012, 90 (Suppl.1) 4.

1169.Jones C, Taylor MA, Clements B. The implications of current hpb surgical training on future practice within the United Kingdom. *HPB* 2012, 14 (Suppl.2) 523.

1170.Jones R, Staettner S, Yip V, Buchanan K, Misra N, Dunne D, Fenwick S, Malik H, Poston G. Microwave ablation for irresectable colorectal liver metastases. *European Journal of Surgical Oncology* 2012, 38(11) 1137.

1171.Joseph DV, Chong N, Taub NA, Rosato E, Shanks M, Petersen SA, Wailoo MP. The development of circadian rhythms in human infants: Cortisol the switch; melatonin the messenger and clock genes. *Journal of Sleep Research* 2012, 21 (Suppl.1) 37.

1172.Jung JH, Lee JJ, Kim WW, Park HY, Yang JD, Lee SJ, Chae YS, Lee YH. Preclinical assessment of multidirectional firing laser ablation in porcine liver and human breast tissue. *European Journal of Cancer* 2012, 48 (Suppl.1) S184.

1173.Kalicki B, Jung A, Ring F, Rustecka A, Zylak A, Zuber J, Murawski P, Bilska K, Wozniak W. Infrared thermography assessment of infantile hemangioma treatment by propanolol. *Thermology International* 2012, 22(3) 102-103.

1174.Kalicki B, Jung A, Rustecka A, Zylak A, Zuber J, Murawski P, Bilska K, Wozniak W. Infantile hemangiomas - The possibility of using infrared thermography in the assessment of propranolol efficacy-preliminary study. *Thermology International* 2012, 22(2) 71.

1175.Kalicki B, Jung A, Rustecka A, Zylak A, Zuber J. Evaluation of skin changes using infrared thermography. *Thermology International* 2012, 22(2) 69-70.

1176.Kalicki B, Jung A, Zylak A, Rustecka A, Koszycka A, Stankiewicz W. Tietze's syndrome and the role of infrared thermography in the differential diagnosis of acute chest pain in adolescents. *Thermology International* 2012, 22(2) 72.

1177.Kamali F, Abtahi D. Anesthesia management in intracranial juvenile nasopharyngeal angiofibroma. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii354.

1178.Kampmann B, Brode P, Fiala D. Physiological responses to temperature and humidity compared to the assessment by UTCI, WGBT and PHS. *International Journal of Biometeorology* 2012, 56(3) 505-513.

1179.Kantsevov S.Minimally invasive treatment of actively bleeding hemorrhoids with a novel endoscopic device. *American Journal of Gastroenterology* 2012, 107 (Suppl.1) S216-S217.

1180.Karathanasis KT, Gouzouasis IA, Karanasiou IS, Uzunoglu NK. Experimental study of a hybrid microwave radiometry-hyperthermia apparatus with the use of an anatomical head phantom.. *IEEE transactions on information technology in biomedicine : a publication of the IEEE Engineering in Medicine and Biology Society* 2012, 16(2) 241-247.1

1181.Karhu J, Kaarre M, Lasanen R, Airaksinen O. Dynamic thermography - A non-invasive method for targeted evaluation of body surface temperature verified by cold gel stress test. *Pain Practice* 2012, 12 (Suppl.1) 28.

1182.Karkar AM, Correa-Gallego C, Monette S, Ezell PC, Jarnagin WR, Kingham TP. Intraoperative ultrasound does not predict

hepatic ablation zone border viability. *Journal of the American College of Surgeons* 2012, 215(3) (Suppl.1) S25.

1183.Kataoka N, Nakamura K. Social defeat stress-induced hyperthermia involves non-shivering thermogenesis in brown adipose tissue. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) .891.4

1184.Kawai N, Kobayashi D, Etani T, Naiki T, Yamada K, Ikegami Y, Kanemoto K, Fukuda K, Tozawa K, Kohri K. Synergism between il-2 and/or anti-regulatory t cell antibody injection and hyperthermic treatment using nano-scale magnetite conjugated cationic liposome effect cancer immune therapy. *Urology* 2012, 80(3) (Suppl.1) S276-S277.

1185.Ke H, Erpelding TN, Jankovic L, Liu C, Wang LV. Performance characterization of an integrated ultrasound, photo-acoustic, and thermoacoustic imaging system.. *Journal of bio-medical optics* 2012, 17(5) 056010.

1186.Kelekis NL, Filippiadis DK. Imaging after liver thermal ablation. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S139-S141.

1187.Keresztes KG, Sims MR, Coats TJ Medical infrared thermal imaging-it's place in emergency medicine?. *Thermology International* 2012, 22(2) 68.

1188.Kevin B, Faulkner S, Ezzati M, Nicola R. High dose intravenous melatonin for augmentation of hypothermic neuroprotection leads to hypotension. *Journal of Maternal-Fetal and Neonatal Medicine* 2012, 25 (Suppl.1) 156.

1189.Khandelwal K, Bumb RA, Mehta RD, Ghiya BC, Satoskar AR. Long-term efficacy of radiofrequency ablation in treatment of common and palmo-plantar warts. *Australasian Journal of Dermatology* 2012,.

1190.Kishore S, Erinjeri JP, Petre E, Sofocleous C, Maybody M, Solomon S. Factors that influence pneumothorax and chest tube placement following microwave ablation of lung malignancy. *Journal of Vascular and Interventional Radiology* 2012, 23(6) 853.e18-853.e19.

1191.Ko Y-H, Park K-W, Kim T-H. The immediate effect of stereoscopic 3D TV on the visual performance in adults. *Asia-Pacific Psychiatry* 2012, 4 (Suppl.1) 103.

1192.Kobata H, Sugie A, Toho T. Therapeutic hypothermia for comatose survivors after cardiac arrest due to aneurysmal subarachnoid hemorrhage. *Neurocritical Care* 2012, 17 (Suppl.2) S324

1193.Kolaric D, Antonini S, Banic M, Nola IA. Re: Digital infrared thermal imaging (DITI) of breast lesions: sensitivity and specificity of detection of primary breast cancers. *Clinical radiology* 2012, 67(3) 295; author reply 295-296.1

1194.Kollmar R, Schwab S, Staykov D. Therapeutic hypothermia decreases growth of perihemorrhagic edema and prevents critical increase of intracranial pressure in large intracerebral haemorrhage. *Critical Care* 2012, 16 (Suppl.2).

1195.Kong J, Kong J, Pan B, Ke S, Dong S, Li X, Zhou A, Zheng L, Sun WB. Insufficient radiofrequency ablation promotes angiogenesis of residual hepatocellular carcinoma via HIF-1(alpha)/VEGFA.. *PloS one* 2012, 7(5) e37266.

1196.Kragholm K, Skovmoeller M, Christensen AL, Fonager K, Tilsted HH, Kirkegaard H, De Haas I, Rasmussen BS. Employment status 1 year after out-of-hospital cardiac arrest in comatose patients treated with therapeutic hypothermia. *Critical Care* 2012, 16 (Suppl.1) S104.

1197.Krauchi K. Sleep-induced changes in cardiovascular function and skin temperatures: Diagnostic implications for cardiovascular disease. *Journal of Sleep Research* 2012, 21 (Suppl.1) 112.

1198.Kuan S-C, Chen K-M, Wang C. Effectiveness of qigong in promoting the health of wheelchair-bound older adults in long-term care facilities. *Biological Research for Nursing* 2012, 14(2) 139-146.

1199.Kuang M, Xie X, Lin M, Liu G, Xu Z, Lu M. Microwave ablation of hepatocellular carcinoma: Long-term results in a single center. *Journal of Vascular and Interventional Radiology* 2012, 23(6) 853.e3.

1200.Kumar A, Hofman WF, Lijzenga C, Van Eecke W. Wearable wireless physiological monitoring for chronobiology and sleep. *Journal of Sleep Research* 2012, 21 (Suppl.1) 199-200.

- 1201.Kumar M, Goldberg A, Kashiouris M, Keenan L, Rabinstein A, Afessa B. Reflex hyperthermia during rewarming from prolonged hypothermia in a swine model of brain injury. *Neurocritical Care* 2012, 17 (Suppl.2) S23.
1202. Fitzgerald A, Berentson-Shaw J. Thermography as a screening and diagnostic tool: a systematic review. *NZMJ* 2012, 125(1351) 80-91
- 1203.Lack L, Micic G, De Bruyn A, Wright H, Lovato N. Delayed sleep phase disorder circadian period length. *Journal of Sleep Research* 2012, 21 (Suppl.1) 332-333.
- 1204.Lago Rivero N, Arias Santos I, Legido Soto JL, Regueira Arcay A, Rey Barbosa C, Vazquez Gomez C. Microcalorimetry: Early identification of bacterial infections(dagger). *European Journal of Hospital Pharmacy: Science and Practice* 2012, 19(2) 146-147.
- 1205.Laino L, Di Carlo A. CRPS: Complex regional pain syndrome type I and thermography: A new tool for diagnosis?. *Thermology International* 2012, 22(3) 106.
- 1206.Latman NS. A biomedical instrumentation lab to accompany an advanced physiology course. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) 518.5
- 1207.Lavesson T, Anullkerman F, Olofsson P. Effect of paracetamol on maternal and fetal temperatures. *Journal of Maternal-Fetal and Neonatal Medicine* 2012, 25 (Suppl.2) 105.
- 1208.Lee BK, Jeung KW, Lee HY, Lee GS, Jung YH. Efficacy and safety of 72-hour targeted temperature management in comatose asphyxial arrest survivors. *Journal of Emergency Medicine* 2012, 43(5) 944.
- 1209.Lee LHC, Lee HY, Lee JS, Cha KS, Oh JH, Choi JH, Hong TJ. Safety and effect of adipose tissue derived stem cell implantation in patients with critical limb ischemia. *European Heart Journal* 2012, 33 (Suppl.1) 426.
- 1210.Lee S-H, Derby R, Chen Y, Lee J-E, Hong Y-K, Wolfer LR, Roh KB, Kang S, Kim SU, Kang BS, Sul D, Hong JH, Lee M, Hwang CM. Experimental efficacy and safety study on a new navigable percutaneous disc decompression device (L/DISQ) -histologic evaluation and thermomapping in human cadaver Spines. *Pain Practice* 2012, 12 (Suppl.1) 76.
- 1211.LeGates TA, Altimus C, Wang H, Yang S, Kirkwood A, Weber T, Hattar S. Aberrant light impairs mood and learning through melanopsin-expressing neurons. *Neuropsychopharmacology* 2012, 38 (Suppl.1) S116.
- 1212.Li H, Yang H, Li E, Liu Z, Wei K. Wearable sensors in intelligent clothing for measuring human body temperature based on optical fiber Bragg grating.. *Optics express* 2012, 20(11) 11740-1752
- 1213.Li J, Fan W, Yang J, Wang Y, Chen W, Xie X, Lu M. Transcatheter arterial chemoembolization (TACE) combined percutaneous thermal ablation in large hepatocellular carcinoma: Clinical observation of the efficacy and predictors of prognostic factors. *Journal of Vascular and Interventional Radiology* 2012, 23(3) (Suppl.1) S19-S20.
- 1214.Li M, Yang X, Ren J, Qu K, Qu X. Using graphene oxide high near-infrared absorbance for photothermal treatment of Alzheimer's disease. *Advanced Materials* 2012, 24(13) 1722-1728
- 1215.Liapi E, Mirpour S, Wabler M, Zhou H, Zhang Y, Gholamrezanezhad A, Ivkov R. Alternating magnetic field thermotherapy of liver tumors: Preliminary in vitro and in vivo study. *Journal of Vascular and Interventional Radiology* 2012, 23(3) (Suppl.1) S51-S52.
- 1216.Lima MLA, Araujo JO, Briochi ML, Yeng LT, Galhardoni R, Kaziyama HHS, Nishimura CM, Teixeira MJ, Andrade DC. Correlations between quantitative sensory test and infrared thermography in low back pain patients - A pilot study. *Thermology International* 2012, 22(3) 123.
- 1217.Lima MLA, Araujo JO, Briochi ML, Yeng LT, Galhardoni R, Kaziyama HHS, Nishimura CM, Teixeira MJ, Andrade DC. Correlations between quantitative sensory test and infrared thermography in low back pain patients - A pilot study. *Thermology International* 2012, 22(3) 105.
- 1218.Lima MLA, Briochi ML, Jacobsen MT. Thermographic protocol of HC-FMUSP: Pubalgia. *Thermology International* 2012, 22(3) 121.
- 1219.Lin C-C, Yang W-C. Far infrared therapy improves endothelial function and access flow of newly-created AV fistula in patients with stage 5 chronic kidney disease. *Nephrology Dialysis Transplantation* 2012, 27 (Suppl.2) ii257-ii258.
- 1220.Lin S-M. Curative therapy for early-stage HCC: Local ablation update. *Hepatology International* 2012, 6(1) 12-13.
- 1221.Lindberg D. Is thermography or mammography a more effective breast cancer screening tool?. *ONS connect* 2012, 27(8) 24.1 Aug
- 1222.Lineaweaver WC. Comment from editor on the letters of de Weerde et al and Chubb, et al.. *Annals of plastic surgery* 2012, 68(6) 641-642.1
- 1223.Little MW, Chung DYF, Boardman P, Gleeson FV, Anderson EM. Percutaneous microwave ablation (MWA) of pulmonary malignancies using a high energy antennae system. *Journal of Thoracic Imaging* 2012, 27(5) W126-W127.
- 1224.Liu D, Lang N, Fernandez B, Dunne P, Tinkler K, McBride K, Feelisch M, Newby D, Weller R. NO effect produced by UVA irradiation of skin is independent of NOS and temperature. *Nitric Oxide - Biology and Chemistry* 2012, 27 (Suppl.1) S31.
- 1225.Loseto G, Libro G, Mele G, Cascavilla N, Giovanni Q, Carella A. A case of posterior reversible encephalopathy syndrome triggered by sun and heat exposure in a patient who underwent allogeneic bone marrow transplantation and with a history of cyclosporine neurotoxicity. *Bone Marrow Transplantation* 2012, 47 (Suppl.1) S348-S350.
- 1226.Lotan A, Lifschytz T, Slonimsky A, Fellig Y, Abedat S, Cohen H, Goelman G, Lerer B. Abnormal threat detection in ah1 mutant mice: Translational relevance to schizophrenia and autism. *Neuropsychopharmacology* 2012, 38 (Suppl.1) S171.
- 1227.Lovisari F, Signorelli M, Ghislanzoni L, Arisi E, Ingelmo PM. Intraperitoneal nebulization prevents central temperature drop during laparoscopic surgery. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii358.
- 1228.Lowry CA, Hale MW, Dady KF, Lukkes JL, Kelly KJ, Raison CL. Integrative physiology of antidepressant drug action. *FASEB Journal* 2012, 26 Meeting (Abstracts Supplement).1079.8
- 1229.Lucchina N, Carrafiello G, Ierardi AM, Cardim LN, Piacentino F, Duka E, Molinelli V, Fugazzola C. Percutaneous microwave ablation of pancreatic cancer. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S252-S253.
- 1230.Lukianova-Hleb EY, Ren X, Zasadzinski JA, Wu X, Lapotko DO. Plasmonic nanobubbles enhance efficacy and selectivity of chemotherapy against drug-resistant cancer cells. *Advanced Materials* 2012, 24(2)8 3831-3837.
- 1231.Machado-Moreira CA, Taylor NAS. Psychological sweating from glabrous and nonglabrous skin surfaces under thermoneutral conditions. *Psychophysiology* 2012, 49(3) 369-374.
- 1232.Madsen SJ, Baek SK, Makkouk AR, Krasieva T, Hirschberg H. Macrophages as cell-based delivery systems for nanoshells in photothermal therapy.. *Annals of biomedical engineering* 2012, 40(2) 507-515.1
- 1233.Malek R. Minimally invasive treatment of BPH in 2012.1 *International Journal of Urology* 2012, 19 (Suppl.1) 27.
- 1234.Marini L. 1064nm superlong pulse laser photo-thermal hormetic skin rejuvenation. *Lasers in Surgery and Medicine* 2012, 44 (Suppl.2)4 55.
- 1235.Marins JCB, Fernandez-Cuevas I, Ribot-Serrano J, Garcia-Concepcion MA, Gomez Carmona P, Sillero-Quintana M. Thermal response of the skin temperature on muscle and joint body areas after strength training by infrared thermography. *Thermology International* 2012, 22(3) 119-120.
- 1236.Marqueze E, Thompson A, Atkinson G, Moreno C. Effects of evening blue-spectrum light on sleepiness and sleep quality. *Journal of Sleep Research* 2012, 21 (Suppl.1) 209.
- 1237.Martin CJ, Carey RI, Ferrara M, Murnane MJ. Comparison of renal function outcomes: Resection versus radiofrequency ablation. *Journal of the American College of Surgeons* 2012, 215(3) (Suppl.1) S148.
- 1238.Martinez-Seijas P, Perez Martin N, Palicio Gonzalez- Esandi I, Gomez Carrillo V, Gutierrez Gutierrez J. Immediate postoperative care of oral and maxillofacial free-flap reconstruction pa-

- tients. *European Archives of Oto-Rhino-Laryngology* 2012, 269(4) 1349.
1239. Matins JCB, Moreira DG, Fernandes AA, S Silva F, Costa CMA, Amorim PRS, Sillero-Quintana M. Time to stabilization of thermographic images at rest. *Thermology International* 2012, 22(3) 118.
1240. Matsumaru N, Shirai K, Kawamura Y, Yokota Y, Kumada K, Toyoda I, Ogura S. Quantified temporal changes of heart rate variability when developing SIRS. *Critical Care* 2012, 16 (Suppl.3)
1241. Mauri G, Cova L, Tondolo T, Ierace T, Solbiati L. Microwave ablation versus radiofrequency ablation for small liver malignancies: Rates of technical success. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S250.
1242. McEvoy H. Medical thermometry training for clinicians: Challenges and successes. *Thermology International* 2012, 22(2) 61.
1243. McGann H. Addition of donor breast milk into an established tissue bank within a transfusion service. *Transfusion* 2012, 52 (Suppl.3) 182A.
1244. McNamara TC, Keen J, Simmons GH, Holowatz LA, Wong BJ. ENOS and nNOS contribution to reflex cutaneous vasodilation during dynamic exercise in humans. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) 1079.11
1245. Mechulan A, Manlucu J, Leong-Sit P, Bennett M, Gula L, Yee R, Klein G, Krahm A. Ventricular fibrillation induced by hypothermia in an inferolateral early repolarization syndrome patient. *European Heart Journal* 2012, 33 (Suppl.1) 1116-1117.
1246. Medina-Ferret E, Pedemonte M, Velluti RA. Brainstem auditory-evoked potentials during human sleep and sleep-like chloral hydrate effect. *Journal of Sleep Research* 2012, 21 (Suppl.1) 260.
1247. Mehler B, Reimer B, Coughlin JF. Sensitivity of physiological measures for detecting systematic variations in cognitive demand from a working memory task: an on-road study across three age groups.. *Human factors* 2012, 54(3) 396-412.1
1248. Meinert E, Farmer B, Barras W, Adil MM, Shafi NI. Retrospective evaluation of fever burden in severely brain injured children. *Neurocritical Care* 2012, 17 (Suppl.2) S72.
1249. Mekjavic IB, Kounalakis SN, Keramidis ME, Biolo G, Narici M, Eiken O. Heat production and heat loss responses to cold water immersion after 35 days horizontal bed rest.. *Aviation, space, and environmental medicine* 2012, 83(5) 472-476.
1250. Mendez JA, Bolla F, Urquiola F. Osler Weber Rendu disease, endonasal laser surgery and anesthesia. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii246.
1251. Mercer JB, De Weerd L, Weum S. Thermography in plastic surgery. *Thermology International* 2012, 22(3) 88.
1252. Merchenthaler I, Lane M, Prokai-Tatrai K, Prokai L. A novel 17-(beta)-estradiol prodrug restores diurnal tail skin temperature rhythm in ovariectomized rats: Potential use to treat menopausal hot flashes. *Endocrine Reviews* 2012, 33(3) Meeting Abstracts.
1253. Middleton S, Drury P, Levi CR, D'Este C, McElduff P, Dale S, Evans M, Quinn C, Cadilac DA, Wah Cheung N. What processes of clinical care are associated with 90-day survival and independence? Results from the Quality in Acute Stroke Care QASC Trial. *International Journal of Stroke* 2012, 7 (Suppl.1) 25.
1254. Minett GM, Duffield R, Kellett A, Portus M. Mixed-method pre-cooling reduces physiological demand without improving performance of medium-fast bowling in the heat.. *Journal of sports sciences* 2012, 30(9) 907-915.
1255. Mirarchi M, Dokmak S, Farger O, Aussilhou B, Belghiti J. Complications of intraoperative ablation of liver tumours: Microwave versus radiofrequency. *HPB* 2012, 14 (Suppl.2) 427.
1256. Misener AL, Havel VE, Panepinto JC. Coupling of mRNA synthesis and decay in *Cryptococcus neoformans* stress adaptation. *Mycoses* 2012, 55 Suppl.4 62.
1257. Mitchell UH, Johnson AW, Myrer JW, Hager RL, Eggett DL. A randomized single-blind controlled trial comparing two monochromatic near-infrared light devices: implications for tissue heating and safety.. *American journal of physical medicine & rehabilitation / Association of Academic Physiatrists* 2012, 91(9) 789-796.
1258. Mohammad I, Ramsden A, Galitzine S. Unexpected intra-operative sacral positional injury during a 13H40MIN orthoplastic surgery under epidural anaesthesia with sedation, with subsequent change in clinical practice. *Regional Anesthesia and Pain Medicine* 2012, 37(5) (Suppl.1) E250.
1259. Moore T, Murray A, Richards H, Ennis H, Griffiths C, Herrick A. Intense pulsed light is an effective treatment for SSC-related telangiectases, as assessed by laser doppler imaging. *Rheumatology* 2012, 51 (Suppl.2) ii6.
1260. Morales G, Cox P, Lucas RAI, Ganio MS, Pearson J, Crandall CG, Cooke WH. Infrared thermal imaging of human skin temperature during combined simulated hemorrhage and thermal stress. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) Ib741
1261. Moreira DG, Fernandes AA, Silva FS, Costa CMA, Pimenta EM, Quintana MS, Cuevas IF, Marins JCB. Symmetry of the skin temperature of the lower limbs in young soccer players. *Thermology International* 2012, 22(3) 99.
1262. Mori H, Tanaka TH, Kuge H, Sasaki K. Is there a difference between the effects of one-point and three-point indirect moxibustion stimulation on skin temperature changes of the posterior trunk surface?. *Acupuncture in medicine : journal of the British Medical Acupuncture Society* 2012, 30(1) 27-31.1
1263. Mostovoy A. Thermography and oral pathology. *Thermology International* 2012, 22(3) 110-111.
1264. Nachiappan M, Gurusinge D, Bhandari S. Hypothermia in burns intensive care: Use of the intravenous temperature management system Thermogard XP® *Critical Care* 2012, 16 (Suppl.2)
1265. Nahm FS, Lee P-B, Huh BK, Kim Y-C, Lee S-C, Lee C-J. Distribution of skin temperature asymmetry vs symptom duration in complex regional pain syndrome multicenter study of 296 patients. *Pain Practice* 2012, 12 (Suppl.1) 50-51.
1266. Nakatani T, Hashimoto T, Narai Y, Miyamoto T, Tadenuma S, Saito Y. Does the retention in finger blood flow against postural change become an indicator of sympathetic block in upper limbs when performing stellate ganglion block?. *Regional Anesthesia and Pain Medicine* 2012, 37(5) (Suppl.1) E291.
1267. Napoli A, Marincola BC, Anzidei M, Mastantuono M, Moreschini O, Piciocco P, Cannata R, Catalano C. The use of Magnetic Resonance guided Focused Ultrasound for a non-invasive treatment of osteoma osteoid. *Journal of Orthopaedics and Traumatology* 2012, 13 Suppl.1 S94.
1268. Napoli A. Bone. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S49-S50.
1269. Navitsky MA, Fox E, Holowatz L, Manning KB. Effects of clopidogril, aspirin, and furosemide on blood viscoelasticity and hematocrit under resting conditions of the elderly. *Biorheology* 2012, 49(2)-3 193-194.
1270. Nica AS, Mologhianu G, Murgu A, Miron L, Mitoiu B. Thermographic evaluation of the effects of electrotherapy on peripheral circulation in patients with stroke. *Thermology International* 2012, 22(3) 112-113.
1271. Nica AS, Mologhianu G, Murgu A, Mitoiu B, Lili M, Moise M. Thermographic evaluation of a young patient with post-traumatic sequelae of lower limb. *Thermology International* 2012, 22(2) 72.
1272. Nikolaou CG, Toutouzas K, Michelongona A, Stathogiannis K, Aggeli K, Felekos I, Synetos A, Tsiamis E, Tousoulis D, Stefanadis C. Correlation between microwave radiometry temperatures and intraplaque neoangiogenesis visualized by contrast-enhanced carotid ultrasound: A population study. *Journal of the American College of Cardiology* 2012, 59(13) (Suppl.1) E1158.
1273. Nishizaka M, Sawatari H, Eura E, Yanai A, Rahamawati A, Ide T, Inoue S, Takemoto M, Miyazono M, Hashiguchi N, Sunagawa K, Suyama-Chishaki A, Ando S-I. Leg thermal therapy could improve sleep structure without changing sleep-disturbed breathing in patients with chronic heart failure. *Journal of Sleep Research* 2012, 21 (Suppl.1) 163.
1274. Norheim AJ, Mercer J. Can medical thermal images predict acupuncture adverse events? A case history.. *Acupuncture in medicine : journal of the British Medical Acupuncture Society* 2012, 30(1) 51-52.1

- 1275.Norkett K, Vick R. The effect of cotton and dry wicking materials on temperature, exertion, and feeling during exercise. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) 1142.56
- 1276.Oe M, Yotsu RR, Sanada H, Nagase T, Tamaki T. Thermographic findings in a case of type 2 diabetes with foot ulcer and osteomyelitis. *Journal of Wound Care* 2012, 21(6) 274-278.
- 1277.Oliveira AVM, Gaspar AR, Francisco SC, Quintela DA. Convective heat transfer from a nude body under calm conditions: Assessment of the effects of walking with a thermal manikin. *International Journal of Biometeorology* 2012, 56(2) 319-332.
- 1278.Ono M, Fujita M, Yamada S. Physiological and psychological responses induced by expressing empathy with others.. *Japan journal of nursing science : JJNS* 2012, 9(1) 56-62.1
- 1279.Orr KE, Khan J, Turbitt L. Addition of a temperature control component to the WHO surgical checklist reduces perioperative hypothermia. *British Journal of Anaesthesia* 2012, 109(3) 476P.
- 1280.Ortmann E, Walsh R, Klein AA, Jenkins DP, Luddington RJ, Besser MW. Point of care assessment of hypothermia induced platelet dysfunction during cardiopulmonary bypass with multiple electrode aggregometry (Multiplate®) *Anaesthesia* 2012, 67(3) 313.
- 1281.Paik U-H, Lee TR, Kang MJ, Shin TG, Sim MS, Jo IJ, Song KJ, Jeong YK. Success rates and procedure times of oesophageal temperature probe insertion for therapeutic hypothermia treatment of cardiac arrest according to insertion methods in the emergency department. *Emergency Medicine Journal* 2012 (in press)
- 1282.Papagiannopoulos T, Steinberg R, Elterman L. Long-term evaluation of safety and efficacy of TherMatrx TMX-2000TM transurethral microwave thermotherapy of the prostate: A 7-year experience. *Urology* 2012, 80(3) (Suppl.1) S223-S224.
- 1283.Papaioannou S, Aslam M, Al Wattar BH, Milnes RC, Knowles TG. Ovulation assessment by vaginal temperature analysis (the ovusense advanced fertility monitoring system) in comparison to oral temperature measurement. *Fertility and Sterility* 2012, 98(3) (Suppl.1) S160.
- 1284.Park GS, Kwon H, Kwak DW, Park SY, Kim M, Lee JH, Han H, Heo S, Li XS, Lee JH, Kim YH, Lee JG, Yang W, Cho HY, Kim SK, Kim K. Full surface embedding of gold clusters on silicon nanowires for efficient capture and photothermal therapy of circulating tumor cells.. *Nano letters* 2012, 12(3) 1638-1642.
- 1285.Pascoe DD, Elmer DJ, Laird RH. Potential errors in mean skin temperature calculation due to thermister placement as determined by infrared thermography. *Thermology International* 2012, 22(3) 91-92.
- 1286.Patel RH, Wadajkar AS, Patel NL, Kavuri VC, Nguyen KT, Liu H. Multifunctionality of indocyanine green-loaded biodegradable nanoparticles for enhanced optical imaging and hyperthermia intervention of cancer.. *Journal of biomedical optics* 2012, 17(4) 046003.1
- 1287.Pearson J, AI Lucas R, Crandall CG. Local skin temperature alters cutaneous vasoconstrictor responses to a simulated hemorrhagic challenge while heat stressed. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) 1080.11
- 1288.Pearson J, Ganio MS, Lucas RAI, Crandall CG. Improved temperature regulation following heat acclimation in well-healed skin graft subjects exercising in the heat. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) 1079.9
- 1289.Percivale A, Griseri G, Malerba M, Pellicci R. Hcc micro-waves ablation in critical patients with high diameter lesions. *HPB* 2012, 14 (Suppl.2) 444.
- 1290.Philipp C. Treatment of port wine stains-how far are we from perfection?. *Lasers in Medical Science* 2012, 27(5) 851.
- 1291.Pinton GF, Aubry JF, Tanter M. Direct phase projection and transcranial focusing of ultrasound for brain therapy.. *IEEE transactions on ultrasonics, ferroelectrics, and frequency control* 2012, 59(6) 1149-1159.
- 1292.Pittl U, Diosteanu R, Schratter A, Desch S, Klemm T, Mende M, Thiele H, Schuler G. Who benefits most? Predictors of favourable outcome after survived sudden cardiac arrest and hypothermia treatment. *European Heart Journal* 2012, 33 (Suppl.1) 636
- 1293.Poli M, Trambaiolo P, Basso V, Mustilli M, De Luca M, Likic V, Simonetti M, Ferraiuolo F, Ferraiuolo G. Mild therapeutic hypothermia: A simple way to improve survival and neurological outcome after cardiac arrest in ICU. *Journal of the American College of Cardiology* 2012, 59(13) (Suppl.1) E733.
- 1294.Poli M, Trambaiolo P, Basso V, Mustilli M, De Luca M, Lukic V, Simonetti M, Ferraiuolo F, Ferraiuolo G. Mild therapeutic hypothermia: A simple way to improve survival and neurological outcome after cardiac arrest in ICU. *Giornale Italiano di Cardiologia* 2012, 13(5) (Suppl.2) 163S-164S.
- 1295.Poveda VB, Martinez EZ, Galvao CM. Active cutaneous warming systems to prevent intraoperative hypothermia: A systematic review. *Revista Latino-Americana de Enfermagem* 2012, 20(1) 183-191.
- 1296.Psikuta A, Fiala D, Laschewski G, Jendritzky G, Richards M, Blazejczyk K, Mekjavic I, Rintamaki H, de Dear R, Havenith G. Validation of the Fiala multi-node thermophysiological model for UTCI application. *International Journal of Biometeorology* 2012, 56(3) 443-460.
- 1297.Punzi L, Frallonardo P, Campana C, Ramonda R. State of art in managing hand osteoarthritis. *Osteoarthritis and Cartilage* 2012, 20 (Suppl.1) S6-S7.
- 1298.Purohit RC, Schumacher J, Pascoe DD. Legality associated with the use of infrared thermal imaging in veterinary medicine. *Thermology International* 2012, 22(3) 113-114.
- 1299.Quelhas Costa E, Guedes J, Santos Baptista J. Core temperature evaluation: Suitability of measurement procedures. *Thermology International* 2012, 22(3) 90-91.
- 1300.Ragi J, Pappert A, Milgraum D, Milgraum S. Thermotherapy with the Alma Accent for the treatment of cutaneous leishmaniasis. *Journal of the American Academy of Dermatology* 2012, 66(4) (Suppl.1) AB114.
- 1301.Ranasinghe TIJ, O'Neal BN, Freeman WD. Physiologic correlations of frontal, noninvasive near-infrared spectroscopy (NIRS) with multimodal monitoring (MMM) after severe aneurysmal subarachnoid hemorrhage with diffuse vasospasm. *Neurocritical Care* 2012, 17 (Suppl.2) S327.
- 1302.Ray CA, Sauder CL, Muller MD. Melatonin does not alter skin sympathetic nerve response to mental stress. *Clinical Autonomic Research* 2012, 22(5) 242.
- 1303.Ren Y, Zhang H, Chen B, Cheng J, Cai X, Liu R, Xia G, Wu W, Wang S, Ding J, Gao C, Wang J, Bao W, Wang L, Tian L, Song H, Wang X. Multifunctional magnetic Fe₃O₄ nanoparticles combined with chemotherapy and hyperthermia to overcome multidrug resistance.. *International journal of nanomedicine* 2012, 7 2261-2269.
- 1304.Ring EFJ, Ammer K. Infrared thermal imaging in medicine. *Physiological Measurement* 2012, 33(3) R33-R46.
- 1305.Ring EFJ. ISO standards for fever screening and their implications. *Thermology International* 2012, 22(2) 63.
- 1306.Ring EFJ. The history of thermology and thermography - The pioneers and milestones. *Thermology International* 2012, 22(3) 86.
- 1307.Ring F, Ammer K. Thermal imaging in rheumatology - An overview. *Thermology International* 2012, 22(2) 68-69.
- 1308.Rintamaki H, Kyrolainen H, Santtila M, Mantysaari M, Simonen R, Torpo H, Mäkinen T, Rissanen S, Lindholm H. From the subarctic to the tropics: Effects of 4-month deployment on soldiers' heat stress, heat strain, and physical performance. *Journal of Strength and Conditioning Research* 2012, 26(Suppl.2) S45-S52.
- 1309.Roberge RJ, Kim J-H, Coca A. Protective facemask impact on human thermoregulation: An overview. *Annals of Occupational Hygiene* 2012, 56(1) 102-112.
- 1310.Rosenberg C, Hoffmann CO, Mensel B, Puls R, Hosten N. [Laser ablation. Do we still need it?]. *Der Radiologe* 2012, 52(1) 15-21.1
- 1311.Rossetti AO. Hypothermia in refractory status epilepticus. *Critical Care* 2012, 16 (Suppl.2).
- 1312.Roustit M, Hellmann M, Cracowski C, Blaise S, Cracowski JL. Sildenafil increases digital skin blood flow during all phases of local cooling in primary Raynaud's phenomenon. *Fundamental and Clinical Pharmacology* 2012, 26 (Suppl.1) 25.

- 1313.Rowland R, Brittain N, Poulton ID, Minassian AM, Sander C, Porter DW, Williams N, Satti I, Pathan AA, Lawrie AM, McShane H. A review of the tolerability of the candidate TB vaccine, MVA85A compared with BCG and Yellow Fever vaccines, and correlation between MVA85A vaccine reactogenicity and cellular immunogenicity. *Trials in Vaccinology* 2012, 1: 27-35
- 1314.Saakian SV, Tatskov RA, Miakoshina EB. [Small retinoblastoma: early diagnosis and combined eye-preserving treatment]. *Vestnik oftalmologii* 2012, 128(2) 55-60.1 20-
- 1315.Sabbour A. Emerging country case study: Physiotherapist. *Haemophilia* 2012, 18 (Suppl.3) 10.
- 1316.Safi N, Davis GD, Nadir M, Hamid H, Robert Jr LL, Case AJ. Evaluation of thermotherapy for the treatment of cutaneous leishmaniasis in Kabul, Afghanistan: a randomized controlled trial. *Military medicine* 2012, 177(3) 345-351.1
- 1317.Safi N. Evaluation of thermotherapy for the treatment of cutaneous Leishmaniasis in Kabul, Afghanistan: A randomized controlled trial. *International Journal of Infectious Diseases* 2012, 16 Suppl.1 e174.
- 1318.Saibene G, Mazzer M, Togliardi E, Russo L, Ciuffreda G, Arienti SG. Problems and solutions related to the storage of investigational drugs. *European Journal of Hospital Pharmacy: Science and Practice* 2012, 19(2) 208-209.
- 1319.Saiyed R, Rand CM, Carroll MS, Patwari PP, Stewart T, Koliboski C, Weese-Mayer DE. Temperature profile in congenital central hypoventilation syndrome (CCHS) and rapid-onset obesity with hypothalamic dysfunction, hypoventilation, and autonomic dysregulation (ROHHAD): Ibutton measures of peripheral skin temperature. *Clinical Autonomic Research* 2012, 22(5) 234-235.
- 1320.Salkola S, Heikkinen J, Eskelin S, Kivela T. Brachytherapy with a 10 mm ruthenium plaque for small choroidal melanomas. *Acta Ophthalmologica* 2012, 90 (Suppl.2)50 23.
- 1321.Salvi L, Brambillasca C, Merli G, Piazzoni N, Moliterni P. The effects of maintaining body core temperature with Thermo-wrap on incidence of new postoperative atrial fibrillation after CABG. *Applied Cardiopulmonary Pathophysiology* 2012, 16 (Suppl.1) 167.
- 1322.Sano A, Picard R. Quantative analysis of electrodermal activity during sleep. *Journal of Sleep Research* 2012, 21 (Suppl.1) 131-132.
- 1323.Sassaroli E, Li KC, O'Neill BE. Modeling focused ultrasound exposure for the optimal control of thermal dose distribution. *TheScientificWorldJournal* 2012, 2012 252741.
- 1324.Sauerwein W, Bornfeld N, Lautner H, Fluhs D, Brualla L, Freistuhler M, Horstmann GA, Biewald E. Preoperative stereotactic radiation and adjuvant brachytherapy for resection of large uveal melanomas. *Radiotherapy and Oncology* 2012, 103 (Suppl.1) S298.
- 1325.Sauvet F, Bourrilhon C, Besnard Y, Van Beers P, Alonso A, Cottet-Emard J-M, Savourey G, Launay J-C. Effects of 29h sleep deprivation on local cold tolerance in humans. *Journal of Sleep Research* 2012, 21 (Suppl.1) 322.
- 1326.Savarese I, Mondì V, Rechichi J, Campi F, Giliberti P, Balestri M, Crescenzi F, Micocci F, Cherubini V, Trombetti F, Dotta A. Mild hypothermia and cerebral hemorrhagic lesions in newborns with hypoxic-ischemic encephalopathy: Experience in an outborn centre. *Journal of Maternal-Fetal and Neonatal Medicine* 2012, 25 (Suppl.1) 153.
- 1327.Scaravilli V, Bonacina D, Citerio G. Rewarming: Facts and myths from the systemic perspective. *Critical Care* 2012, 16 (Suppl.2).
- 1328.Scheer FAJL. Circadian clock control of body temperature and cardiovascular function: Implications for health and disease. *Journal of Sleep Research* 2012, 21 (Suppl.1) 111.
- 1329.Schmutzhard E, Fischer M, Dietmann A, Brossner G. Therapeutic hypothermia: The rationale. *Critical Care* 2012, 16 (Suppl.2).
- 1330.Schmutzhard E, Fischer M, Dietmann A, Helbok R, Broessner G. Rewarming: Facts and myths from the neurological perspectives. *Critical Care* 2012, 16 (Suppl.2).
- 1331.Schulman CI. Intra-operative warming/normothermia in burn patients. *Therapeutic Hypothermia and Temperature Management* 2012, 2(2) 93.
- 1332.Serrat MA, Williams RM. Large molecule delivery to the growth plate increases with limb temperature measured by in vivo multiphoton imaging. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) 715.4
- 1333.Seuser A, Kurnik K, Bidlingmaier C, Mahlein A. Thermography in children with hemophilia: A sensitive tool to predict the future of hemophilic joints?. *Haemophilia* 2012, 18 (Suppl.3) 127.
- 1334.She YF, Zhu J, Ma LX, Xie JP, Li CH, Yuan HW. [Analysis on relevance between regional acupoint skin temperature and indoor temperature and humidity in healthy female volunteers during menstruation]. *Zhen ci yan jiu = Acupuncture research / [Zhongguo yi xue ke xue yuan Yi xue qing bao yan jiu suo bian ji]* 2012, 37(2) 145-150.1
- 1335.Shibata H, Horie O, Natsuaki M, Koshiba M. Assessment of fever for infections control by using thermography in Japan. *Thermology International* 2012, 22(3) 120-121.
- 1336.Shinozaki K, Oda S, Sadahiro T, Nakamura M, Watanabe E, Abe R, Nakada T, Morita Y, Nakanishi K, Kitamura N, Hirasawa H. Correlation between IL-6 and S-100B blood levels and outcome of post-cardiac arrest syndrome and influence of therapeutic hypothermia on these mediator blood levels. *Critical Care* 2012, 16 (Suppl.1) S100.
- 1337.Shipley T, Adam J, Sweeney D, Fenwick S, Mansy H, Ahmed S, Moore I. Does far infrared therapy aid av fistula maturation and maintenance?. *Nephrology Dialysis Transplantation* 2012, 27 (Suppl.2) ii261.
- 1338.Shitzer A, Tikuisis P. Advances, shortcomings, and recommendations for wind chill estimation. *International Journal of Biometeorology* 2012, 56(3) 495-503.
- 1339.Sillero-Quintana M, Conde-Pascual E, Gomez-Carmona P, Fernandez-Cuevas I, Garcia-Pastor T. Effect of yoga and swimming on body temperature of pregnant women. *Thermology International* 2012, 22(3) 108.
- 1340.Simoes R, Vardasca R, Nogueira-Silva C. Thermal skin reference values in healthy late pregnancy. *Journal of Thermal Biology* 2012, 37(8) 608-614.
- 1341.Simoneau E, Wong S, Jamal M, Aljiffry M, Chaudhury P, Tchervenkov J, Metrakos P, Hassanain M. The utility of positron emission tomography in hepatocellular carcinoma. *HPB* 2012, 14 (Suppl.2) 173.
- 1342.Sindram D, Hanna EM, Simo KA, Martinie JB, Iannitti DA. Volumetric assessment of single application, single antenna microwave ablation of liver lesions on CT imaging. *HPB* 2012, 14 (Suppl.1) 71.
- 1343.Slawinska A, Wieronska JM, Stachowicz K, Palucha-Poniewiera A, Pilc A, Uberti MA, Bacolod MD, Doller D. An anxiolytic but not antidepressant-like activity of a novel positive modulator of mGlu4 receptor Lu AF21394.1 *European Neuropsychopharmacology* 2012, 22 (Suppl.1) S44-S45.
- 1344.Smith J, Alcock G, Usher K. A comparison of axillary and tympanic temperature recording in the preterm and term neonate. *Journal of Paediatrics and Child Health* 2012, 48 (Suppl.1) 144.
- 1345.Sofocleous CT. How to perform a typical RFA procedure. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S18-S21.
- 1346.Soroko M, Jodkowska E. The use of thermography to evaluate back musculoskeletal responses of young race horses to training. *Thermology International* 2012, 22(3) 114.
- 1347.Staettner S, Yip VS, Buchanan K, Jones R, Misra N, Malik H, Fenwick S, Poston G. Microwave ablation for the treatment of colorectal liver metastasis (CLM)-short and midterm results. *European Journal of Surgical Oncology* 2012, 38(9) 859-860.
- 1348.Staiger H, Laschewski G, Gratz A. The perceived temperature - a versatile index for the assessment of the human thermal environment. Part A: Scientific basics. *International Journal of Biometeorology* 2012, 56(1) 165-176.
- 1349.Stine CA, Flook DM, Vincze DL. Rectal Versus Axillary Temperatures: Is There a Significant Difference in Infants Less Than 1 Year of Age?. *Journal of Pediatric Nursing* 2012, 27(3) 265-270.
- 1350.Storm C. In-hospital hypothermia. *Critical Care* 2012, 16 (Suppl.2).

1351. Strakowska M, Wiecek B, DeMey G. Multilayer thermal model of human skin for thermovision screening applications. *Thermology International* 2012, 22(2) 70-71.
1352. Strakowski R, Strakowska M, Strzelecki M. Movement correction in provocative thermovision medical investigations. *Thermology International* 2012, 22(2) 73-74.
1353. Sugarbaker PH. Parietal peritonectomy.. *Annals of surgical oncology* 2012, 19(4) 1250.1
1354. Sund-Levander M, Grodzinsky E. Time for a change when assessing and evaluating body temperature in clinical practice. *Thermology International* 2012, 22(2) 61.
1355. Sunshine J, Sandhu G, Sloan A, Griswold M. Laser thermotherapy of malignant brain lesions using mri for needle guidance and real-time temperature mapping. *Journal of Neuro Interventional Surgery* 2012, 4 (Suppl.1) A17.
1356. Sutherland S, Meredith D, Borhani Y, Clifton D, Thornley A, Mosson A, Tarassenko L, Pugh C. Can integrated and continuous vital sign and temperature monitoring contribute to the care of haemodialysis patients?. *Thermology International* 2012, 22(2) 61.
1357. Svanberg A, Ohrn K, Brostrom H, Birgegard G. The effect of cryotherapy on oral mucosa: a study in healthy volunteers. *Medical Oncology* 2012, 1-5.
1358. Svanberg EK, Wollmer P, Andersson-Engels S, Anullkeson J. Physiological influence of basic perturbations assessed by non-invasive optical techniques in humans. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii272-ii273.
1359. Synetos A, Toutouzas K, Drakopoulou M, Grassos H, Stathogiannis K, Tsiamis E, Agrogiannis G, Patsouris E, Katsargyris A, Klonaris C, Liasis N, Tousoulis D, Stefanadis C. Microwave radiometry for the detection of local inflammatory activation in carotid atherosclerotic plaques: A new non-invasive method. *Journal of the American College of Cardiology* 2012, 59(13) (Suppl.1) E1157.
1360. Tabatabaei N, Mandelis A, Dehghany M, Michaelian KH, Amaechi BT. On the sensitivity of thermophotonic lock-in imaging and polarized Raman spectroscopy to early dental caries diagnosis.. *Journal of biomedical optics* 2012, 17(2) 025002.1
1361. Tagliaferri L, Smaniotta D, Blasi MA, Pagliara M, Villano A, Balestrazzi E, Azario L, Luzi S, Valentini V. Brachytherapy with iodine 125 or ruthenium 106 for treatment of choroidal melanomas measuring 5-7 mm in thickness. *Radiotherapy and Oncology* 2012, 103 (Suppl.2) S163-S164.
1362. Takami Y, Saitsu H, Tateishi M, Ryu T, Wada Y. Treatment by intraoperative microwave ablation (MCN) achieved 70% of 5-year survival rate for HCC within Milan criteria: MCN as an alternative to liver transplantation. *Journal of Hepatology* 2012, 56 (Suppl.2) S94-S95.
1363. Takami Y, Tateishi M, Ryu T, Wada Y, Saitsu H. Evaluation of intraoperative microwave coagulo-necrotic therapy (MCN) for hepatocellular carcinoma (HCC): A single center experience of 719 consecutive cases. *HPB* 2012, 14 (Suppl.2) 179-180.
1364. Takeda R, Okazaki K, Imai D, Suzuki A, Naghavi N, Matsumura S, Miyagawa T. Postural change during hyperthermia modifies thermal perception in men. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) Ib740
1365. Tan N, Wang E, Taira BR, Sandoval S, Singer AJ. The effect of controlled mild hypothermia on survival in a resuscitated rat model of large scald burns. *Academic Emergency Medicine* 2012, 19 (Suppl.1) S383.
1366. Tanaka R, Imagawa K, Fukui T, Asahara T, Miyasaka M. GCS-F mobilized autologous peripheral blood EPC transplant for nonhealing diabetic foot patients. *Wound Repair and Regeneration* 2012, 20(1) A7.
1367. Te Lindert BHW. Skin temperature-induced changes in sleep and vigilance and implications for insomnia. *Journal of Sleep Research* 2012, 21 (Suppl.1) 111-112.
1368. Teran CG, Torrez-Llanos J, Teran-Miranda TE, Balderrama C, Shah NS, Villarroel P. Clinical accuracy of a non-contact infrared skin thermometer in paediatric practice.. *Child: care, health and development* 2012, 38(4) 471-476.1
1369. Thibault L, De Grandmont M, Ducas Methot M. Effect of short-term deviations in storage temperature on red blood cell in vitro parameters. *Transfusion* 2012, 52 (Suppl.3) 80A.
1370. Thomas RA. Evolution of infra red cameras, images and detectors. *Thermology International* 2012, 22(3) 86-87.
1371. Tiktinsky R, Kenet G, Sher-Lurie N, Martinowitz U. Successful treatment outcome for an eight-year-old hemophilic boy with Chronic Regional Pain Syndrome (CRPS). *Haemophilia* 2012, 18 (Suppl.3) 154-155.
1372. Tondolo T, Cova L, Mauri G, Ierace T, Goldberg S, Solbiati L. Local control of focal hepatic malignancies treated with microwave ablation with a high-power applicator system in 165 patients. *Journal of Vascular and Interventional Radiology* 2012, 23(6) 853.e17.
1373. Tosya A, Uymaz B, Koksall P, Yilmaz D, Ozer E, Tarcin O, Aybek T. The impact of deepest core temperature on the clinical outcome of aortic arch operations. *International Journal of Cardiology* 2012, 155 (Suppl.1) S76-S77.
1374. Tripp M, McCauley L, Bond K, Simango M, Tompkins D, Edwards R, Haythornthwaite J, Campbell C. Ethnic differences in capsaicin pain response in healthy subjects. *Journal of Pain* 2012, 13(4) (Suppl.1) S52.
1375. Trivedi SJ, Lim TW, Barry MA, Byth K, Ross DL, Thiagalingam A, Kovoor P. Clinical evaluation of a new technique to monitor return electrode skin temperature during radio-frequency ablation. *Journal of Interventional Cardiac Electrophysiology* 2012, 1-8.
1376. Tsoumakidou G, Garnon J, Buy X, Enescu I, Steib J-P, Gangi A. Percutaneous ablation of spinal osteoid osteoma: Report of 37 patients. *CardioVascular and Interventional Radiology* 2012, 35 (Suppl.1) S208.
1377. Turkevich V, Nosov A, Mishchenko A, Kanaev S. Clinical experience with the use of magnetic resonance guided focused ultrasound surgery (MRGFUS) system for focal treatment of low-risk prostate cancer. *International Journal of Radiation Oncology Biology Physics* 2012, 84(3) (Suppl.1) S388.
1378. Tveita T. Pharmacodynamics in hypothermia. *Critical Care* 2012, 16 (Suppl.2).
1379. Usuki H, Tai C, Hamano T, Kondo A, Sakabe M, Nishimura M, Asano E, Ohshima M, Kashiwagi H, Nishizawa Y, Yamamoto N, Akamoto S, Fujiwara M, Okano K, Suzuki Y. Usefulness of the thermographic examination for detecting hypothermia. *Thermology International* 2012, 22(3) 98.
1380. Vaccari CB, Cerize NN, Morais PC, Re MI, Tedesco AC. Biocompatible magnetic microspheres for Use in PDT and hyperthermia.. *Journal of nanoscience and nanotechnology* 2012, 12(6) 5111-5116.1
1381. van der Valk FM, van Leeuwen J. ['Malignant peritoneal mesothelioma': a condition difficult to diagnose]. *Nederlands tijdschrift voor geneeskunde* 2012, 156(15) A4269.
1382. Vanos JK, Warland JS, Gillespie TJ, Kenny NA. Thermal comfort modelling of body temperature and psychological variations of a human exercising in an outdoor environment. *International Journal of Biometeorology* 2012, 56(1) 21-32.
1383. Vardasca R, Ring EFJ, Plassmann P, Jones CD. Thermal symmetry on upper and lower extremities on healthy subjects using standardised images. *Thermology International* 2012, 22(2) 62.
1384. Vats A, Rodway MJ, Watkins E, Gupta PK, Hopkins PM. Do malignant hyperthermia-susceptible patients have higher baseline core body temperature?. *British Journal of Anaesthesia* 2012, 108(4) 714.
1385. Vicari Nogueira C. How does thermography helps abdominal plastic surgery. *Thermology International* 2012, 22(3) 101.
1386. Vivanco M, Feinberg E, Chapochnik Friedmann J. Laparoscopic microwave ablation of hepatocellular carcinoma in patients with portal hypertension; technical tips for a safe procedure. *HPB* 2012, 14 (Suppl.1) 85.
1387. Volicer L, Harper DG, Stopa EG. Severe impairment of circadian rhythm in Alzheimer's disease. *Journal of Nutrition, Health and Aging* 2012, 1-3.
1388. Vos P, De Cock P, Petry K, Van Den Noortgate W, Maes B. The tell-tale: What does physiology reveal about emotions of people with severe and profound ID?. *Journal of Intellectual Disability Research* 2012, 56(7)-8 790.
1389. Waddington C, Darton T, Jones C, Haworth K, Peters A, Kerridge S, Crook D, Lockhart S, Farrar J, Dougan G, Levine M,

- Angus B, Pollard A. Variations in attack rate in a single-blind, dose escalation challenge study of Salmonella Typhi in healthy adult volunteers. *International Journal of Infectious Diseases* 2012, 16 Suppl.1 e244.
- 1390.Walecka A, Robert SC, Prasad A. Survey on the management of patients treated with therapeutic hypothermia post cardiac arrest in London hospitals. *Critical Care* 2012, 16 (Suppl.1) S102.
- 1391.Wall-Scheffler CM, Myers MJ. Is female morphology selected for economy and male morphology selected for efficiency? Evidence from studies on humans. *American Journal of Physical Anthropology* 2012, 147 (Suppl.5) 4 296.
- 1392.Walther B, Blom RE, Van Dijken GD, Hene RJ. High incidence of asymptomatic hyponatremia in female ravers using ecstasy. *Nephrology Dialysis Transplantation* 2012, 27 (Suppl.2) ii74-ii75.
- 1393.Walton TJ, Martin GL, Duthie J, Kerger M, Costello D, Murphy DG, Costello AJ. Does intraoperative regional hypothermia improve potency and continence outcomes after robotic-assisted radical prostatectomy?. *BJU International* 2012, 109 (Suppl.4) 44-45.
- 1394.Wang CX, He C, Pegg C, Wang A, Stroink A. Ischemic neuronal death is increased by increased temperature through ER stress in vitro and in vivo. *Journal of Neurotrauma* 2012, 29(10) A78-A79.
- 1395.Ward KA, Van Demark M, Florio KI. Continuous detection of shivering & microshivering. *Neurocritical Care* 2012, 17 (Suppl.2) S117.
- 1396.Watanabe I, Watanabe T, Kon A. Sympathetic nerve block effects of phototherapy near stellate ganglion. *Thermology International* 2012, 22(3) 118.
- 1397.Watanabe T, Kon A, Watanabe I. Observation of peripheral capillary blood flow in proximal nail folds and thermography. *Thermology International* 2012, 22(3) 118.
- 1398.Weiser C, Testori C, Sterz F, Schober A, Stockl M, Stratil P, Wallmuller C, Horburger D, Spiel A, Kurkciyan I, Gangl C, Herkner H, Holzer M. The effect of percutaneous coronary intervention in patients suffering from STEMI complicated by out of hospital cardiac arrest on 30 days survival. *Resuscitation* 2012, 83 (Suppl.1) e89.
- 1399.Westermann S. Thermography in equine medicine and the influence of different environmental factors on the thermographically determined temperature. *Thermology International* 2012, 22(3) 89-90.
- 1400.Weyen TEJ, Most EIS, Raymann RJEM. Promoting sleep using bed warming. *Journal of Sleep Research* 2012, 21 (Suppl.1) 147.
- 1401.White W, Bienvenu J, Brewer E, Waters WB, Klein F. Robotic suprapubic prostatectomy for severe benign prostatic hyperplasia. *Journal of Urology* 2012, 187(4) (Suppl.1) e418.
- 1402.Wiecek B. Practical camera and environment parameters determination in quantitative thermovision measurements. *Thermology International* 2012, 22(2) 74-75.
- 1403.Winslow EH, Cooper SK, Haws DM, Balluck JP, Jones CM, Morse EC, Edwards TD, Kelly PA. Unplanned Peri-operative Hypothermia and Agreement Between Oral, Temporal Artery, and Bladder Temperatures in Adult Major Surgery Patients. *Journal of Perianesthesia Nursing* 2012, 27(3) 165-180.
- 1404.Winslow EH, Kelly PA. Active warming study. *American Journal of Nursing* 2012, 112(9) 12.
- 1405.Witzsch UK, Damian D, Michael M, Bjerklund Johansen T. Salvage and primary 17G cryosurgery for prostate cancer - 10 year European experience. *European Urology, Supplements* 2012, 11(1) e21-e21a.
- 1406.Wong A, Masters J, Morgan G. Inadvertent hypothermia in a general adult intensive care unit: An audit of over 500 patients. *British Journal of Anaesthesia* 2012, 108 (Suppl.2) ii78.
- 1407.Wunderlich C, Forkmann M, Kolschmann S, Ibrahim K, Christoph M, Holzhauser L, Schmeisser A, Fuhrmann J, Boscheri A, Strasser RH. Therapeutic hypothermia exerts beneficial effects on cardiac performance in patients after out of hospital cardiac arrest. *European Heart Journal* 2012, 33 (Suppl.1) 961.
- 1408.Wysoczanski B. Thermal evaluation of treatments using the methods of Dr. Ackermann in selected cases during the first minutes after the procedure. *Thermology International* 2012, 22(2) 72-73.
- 1409.Xu PC, Lee TL, Cui SL. [Impacts on the skin temperature by the different distances of moxibustion: discussion on the safe distance of moxibustion].. *Zhongguo zhen jiu = Chinese acupuncture & moxibustion* 2012, 32(7) 611-614.1
- 1410.Xu X, Karis AJ, Mullen SP, Patel T, Buller MJ, Santee WR. Estimating core temperature during exercise in heat using non-invasive measurements. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement) .1084.13
- 1411.Yacyshyn E, Dos Santos MF, Harley D, Homik J. Quantification of hand temperatures using thermography in a healthy patient cohort. *Journal of Rheumatology* 2012, 39(8) 1739.
- 1412.Yamazaki F. Oral vitamin C enhances the adrenergic vasoconstrictor response to local cooling in human skin. *Journal of Applied Physiology* 2012, 112(10) 1689-1697.1 15
- 1413.Yang LX, Wei Q, Ma ZQ, Zeng Y, Zhao TH, Li HB, Song HS. Efficacy of percutaneous microwave ablation for treatment of small renal cell carcinoma: A single center's experience. *Journal of Endourology* 2012, 26 (Suppl.1) A125.
- 1414.Yau C, Ho S, Chan C. A nurse-initiated early pain management program (NIEPMP) for the management of acute low back pain in Emergency Medicine Ward: A randomized controlled pilot study. *Journal of Pain* 2012, 13(4) (Suppl.1) S61.
- 1415.Yonezawa R, Wada T, Morita M, Sawakawa K, Ishii Y, Sasahara M, Tsuneki H, Sasaoka T, Saito S. Central and peripheral estrogen differentially ameliorates impaired glucose metabolism in postmenopausal obese mice model. *Diabetes* 2012, 61 (Suppl.1) A483.
- 1416.Young JK, Figueroa ER, Drezek RA. Tunable nanostructures as photothermal theranostic agents.. *Annals of biomedical engineering* 2012, 40(2) 438-459.1
- 1417.Yu A. Pharmacokinetic and pharmacodynamic interactions of indolealkylamine drugs of abuse. *FASEB Journal* 2012, 26 (Meeting Abstracts Supplement).849.2
- 1418.Yu J, Ouyang Q, Zhu Y, Shen H, Cao G, Cui W. A comparison of the thermal adaptability of people accustomed to air-conditioned environments and naturally ventilated environments. *Indoor Air* 2012, 22(2) 110-118.
- 1419.Yu L, Ma S, Li F, Zhang Y, Zhen Y, Ke J. Hyperthermic intrapleural chemotherapy by vats for lung adenocarcinoma with pleural dissemination. *Journal of Thoracic Oncology* 2012, 7(9) (Suppl.4) S255.
- 1420.Yu T, Hamill J, Liley A, Hill AG. Warm humidified carbon dioxide gas insufflation for laparoscopic appendicectomy in children: A double-blinded randomised controlled trial. *Journal of Surgical Research* 2012, 172(2) 272.
- 1421.Zadnik PL, Molina CA, Groves ML, Sarabia-Estrada R, Wabler M, Mihalic J, McCarthy E, Ivkov R, Sciubba DM. Nanoparticle mediated thermoablation in tumors of the spinal column in a rat model of metastatic breast cancer. *Spine Journal* 2012, 12(9) (Suppl.1) 16S.
- 1422.Zhan T, Li P, Bi S, Dong B, Song H, Ren H, Wang L. 12P-conjugated PEG-modified gold nanorods combined with near-infrared laser for tumor targeting and photothermal therapy. *Journal of nanoscience and nanotechnology* 2012, 12(9) 7198-7205
- 1423.Zhang Z, Wang L, Wang J, Jiang X, Li X, Hu Z, Ji Y, Wu X, Chen C. Mesoporous silica-coated gold nanorods as a light-mediated multifunctional theranostic platform for cancer treatment. *Advanced Materials* 2012, 24(11) 1418-1423.
- 1424.Zhou HM, Feng B, Zhao HC, Zheng MH. Antitumor effects of hyperthermic CO2 pneumoperitoneum on human gastric cancer cells.. *Asian Pacific journal of cancer prevention : APJCP* 2012, 13(1) 117-122.
- 1425.Ziemlewicz T, Hinshaw J, Lubner M, Brace C, Wells S, Lee FT. Percutaneous microwave ablation with high-powered, gas-cooled antennas: Short-term results in 52 patients. *Journal of Vascular and Interventional Radiology* 2012, 23(6) 853.e16.
- 1426.Zore Z. Infrared thermography. *Lijecnicki Vjesnik* 2012, 134(5)-6 194-195.

1427.Sardesai A, Hujazi I, Khanduja V. Surgical access warming blanket to prevent hypothermia after hip arthroscopy. Arthroscopy. 2012;28(8):1045-1046

1428.Brown DJ, Brugger H, Boyd J, Paal P. Accidental hypothermia. N Engl J Med. 2012 367(20):1930-1938

1429.Lista F, Doherty CD, Backstein RM, Ahmad J. The impact of perioperative warming in an outpatient aesthetic surgery setting. Aesthetic Surgery Journal. 2012 ;32(5):613-620

1430.Sanon NT, Desgent S, Carmant L. Atypical febrile seizures, mesial temporal lobe epilepsy, and dual pathology. Epilepsy Research and Treatment, 2012, Art. Number: 342928

Address for correspondence

Prof Kurt Ammer MD, PhD

European Association of Thermology

Hernalser Hauptstr.209/14

1170 Vienna

Austria

Email: KAmmer1950@aol.com

Meetings

September 10 - 13, 2013, Turin

AITA 2013 - 12th International Workshop on Advanced Infrared Technology and Applications

Venue: Castello del Valentino , Politecnico di Torino, Viale Mattioli, 39 - 10125 Turin

PRELIMINARY PROGRAMME

Wednesday, September 11

Opening Session

- 09.00 Institutional Greetings from: Prof. Marco Gilli -Rector of the Politecnico di Torino
Welcome from AITA Chair, Co-chair and Organizers: L. Abbozzo Ronchi, P. Bison, C. Corsi, I. Pippi, O. Salvetti, M. Strojnik, M. Volinia
- 09.30 *C. Corsi (invited lecture)* New frontiers for infrared

Session: Advanced Sensors

- 10.00 *D. De Sousa Meneses, M. Eckes, B. Bouvry, L. del Campo, P. Echegut:* High temperature Infrared spectrometer
- 10.20 *M. Alyoruk, Y. Ergun, M. Hostut* AlSb Layer Thickness Effect on HH-LH Splitting and Band Gap Energies in InAs/AlSb/GaSb Type-II Superlattices
- 10.40 *A. Ordonez Müller, A. Kroll:* Effects of beam divergence in hand-held TDLAS sensors on long distance gas concentration measurements
- 11.00 Coffee Break

Session: Advanced Technologies and Materials - Part I

- 11.20 *F. D'Amato, A. Montori, M. De Pas, M. Giuntini, M. Siciliani de Cumis, S. Viciani:* A constant intensity technique to improve the performances of devices based on direct absorption spectroscopy
- 11.40 *A. Mazjoud, L. Ibos, J. Dumoulin:* Detection of buried thin geometrical structure in a plaster layer by active infrared thermography
- 12.00 *Abd El-Naser A. Mohamed, Imbaby I. Mahmoud, Ahmed Nabih Zaki Rashed, Mohamed S. El Tokhy, Osama H. Elgzar:* Radiation induced thermal effects and effects of bending on power attenuations in deformed polymer optical fibers
- 12.20 *Abdulrazzak A.S. Mohammed, Safaa M. Hameed:* A new formula to evaluate the band width of an image for a digital camera
- 12.40 *Imbaby I. Mahmoud, Abd El-Naser A. Mohamed, Ahmed Nabih Zaki Rashed, Mohamed S. El Tokhy, Osama H. Elgzar:* Modeling of radiation induced attenuation and its recovery in optical fibers
- 13.00 *Herchang Ay, Bing-Yan Wu:* A Study of enhanced heat transfer for a plate-fin heat sink by operating two piezoelectric fans
- 13.20 Lunch

Session: Nanotechnologies

- 14.20 *P. Gori, L. Matthes, O. Pulci, F. Bechstedt* Infrared absorbance of graphene, silicene and germanene
- 14.40 *M. D'Acunto, A. Benassi, A. Cricenti, M. Luce D. Moroni, O. Salvetti:* NIR response of gold nanoparticles for biological detection
- 15.00 *P.A. Hobson, P. Andrew, B.T. Hallam, C.R. Lawrence* Infrared resonant absorption by coupled surface plasmon modes in an ultra-thin nanostructured microcavity
- 15.20 *E. Kennedy, R. Al-Majmaie, M. Al-Rubeai, D. Zerulla, J. H. Rice* Infrared nanoscopy of cells for nanoscale therapeutic agent localization
- 15.40 *D. Chauhan, N. Singhvi, R. Singh* Role of nanolayer and aggregation of dispersed metal oxide particles in enhancement of effective thermal conductivity of nanofluids
- 16.00 *F. Vitali, V. Foglietti, D. Lorenzetti, E. Cianci, F. Ghinassi, A. Harutyunyan, C. Riverol, L. Riverol, S. Antonucci* Nanotechnology applied to silicon grism, for high-resolution infrared spectroscopy in astronomy
- 16.20 Coffee Break

Session: Cultural Heritage

- 16.40 *A. Bendada, S. Sfarra, C. Ibarra-Castanedo, M. Akbloufi, J.-P. Caumes, C. Pradere, J.C. Batsale, D. Paoletti, X. Maldague* Subsurface imaging for panel paintings inspection, passing through the ultraviolet, the visible, the infrared and the terahertz spectra
- 17.00 *G. Cadelano, P. Bison, A. Bortolin, G. Ferrarini, M. Girotto, F. Peron, M. Volinia* Conservation of historical frescoes by timed infrared imaging analysis
- 17.20 *S. Sfarra, C. Ibarra-Castanedo, E. Marcucci, A. Bendada, D. Ambrosini, D. Paoletti, X. Maldague* From the laboratory to the in situ inspection: active and hybrid infrared thermography approaches as aid for the consolidation of mosaics
- 17.40 *A. Tavukçuoğlu, E.N. Caner-Saltik* Quantitative infrared thermography and ultrasonic testing for in-situ assessment of Nemrut Dag stone statues

Session: Remote sensing

- 18.00 *P. Coppo* : Fire detection simulation with infrared payloads from geostationary platform
- 18.20 *S. Lagiela, L. Díaz-Vilarino, D. Roca, J. Armesto* Aerial thermography from low-cost UAV for the generation of thermographic digital terrain models
- 18.40 *M.R Mughal, L.M. Reyneri, D. Del Corso* Free space and glass fibre based infrared communication system on-board Aramis satellite
- 19.00 *S. Sadovnychiy, J. M. López, A. Sadovnychy, M. A. Hernandez* Applying of the infrared system for oil and gas pipeline right of way aerial inspection

Thursday, September 12

- 09.00 *X. Maldague, F. Lopez, C. Ibarra-Castanedo (invited lecture)* Enhanced image processing for IR-NDT

Session: Buildings and Infrastructures

- 09.30 *L. Belussi, L. Danza, I. Meroni* Energy performance assessment with empirical methods: application of energy signature
- 09.50 *A. Bortolin, G. Cadelano, G. Ferrarini, P. Bison* Thermal performance measurement of the building envelope by infrared thermography
- 10.10 *P. Bison, A. Bortolin, G. Cadelano, G. Ferrarini, P. Gasparetto* : Infrared thermography for on-site inspection of photovoltaic systems: a brief review
- 10.30 *E. Robison, C. Estrada* The Application of Infrared Thermography to Conditions Assessments of Guastavino Vaulting
- 10.50 *G. Ferrarini, P. Bison, A. Bortolin, G. Cadelano, M. Girotto, U. Mazzali, F. Peron, M. Volinia* Energy survey of a historical building by infrared thermography
- 11.10 Coffee Break

Session: Nondestructive evaluation

- 11.30 *L. Vega, P. Venegas, J. Guerediaga* : Validation of a novel NDT technique with infrared thermography
- 11.50 *A. Elhassnaoui, S. Sabnoun, S. Belattar* : Nondestructive testing by determining the thermal effusivity of the geometry defects
- 12.10 *P. Venegas, L. Vega, J. Guerediaga* : Instrumentation technology based on infrared thermography for the control of aeronautical composite components subjected to certification load tests
- 12.30 *K. Li, G. Yun Tian* : State Detection of Bond Wires in Power Electronics Devices using Eddy Current Pulsed Thermography
- 12.50 *U. Galietti, D. Palumbo, R. De Finis, F. Ancona* : Evaluation of defects in composite materials by means microwave thermography
- 13.10 *L. Vega, P. Venegas, J. Guerediaga* Study of the capabilities of the processing techniques applied to defects detection in active thermography
- 13.30 Lunch
- 14.30 *Workshop sponsors* News, Trends and Opportunities

Session: Industrial applications

- 15.10 *M.M. Dugand* Automotive applications of IR thermography at CRF

- 15.30 *A. Khalifa, M. Marchetti, L. Ibos, V. Feuillet, J. Dumoulin, M. Buès, L. Bouilloud* Monitoring of traffic incidence on pavement surface temperature
- 15.50 *F. Bozzoli, L. Cattani, G. Pagliarini, S. Rainieri* Infrared imaging of the convective heat transfer coefficient distribution in coiled tubes
- 16.10 *D. Shiozawa, K. Inaba, A. Akai, T. Sakagami* Experimental study of relationship between energy dissipation and fatigue damage initiation based on observation of slip band by atomic force microscope
- 16.30 Coffee Break

Session: Bio-applications - Part I

- 16.50 *B. Jalil, O. Salvetti, L. Potì, M. Marinelli, V. Hartwig, A. L'Abbate* Heterogeneity of hand skin microcirculation assessed by near infrared 2D imaging
- 17.10 *D. Al-Ramamneh, M. Gerken, A. Riek* Effect of shearing on water turnover and thermobiological variables in German Blackhead mutton sheep
- 17.30 *S. Riyabi-Alam, V. Agostini, F. Molinari, M. Knaflitz* Evaluation of time-series registration methods in dynamic area telethermometry for breast cancer detection
- 17.50 *I. Benkő* Histogrammic method as a tool of thermal image processing
- 18.10 *E. Rokita, T. Rok, G. Taton* Evaluation of allergic response using dynamic thermography
- 18.30 *R. Lampe, S. Kawelke, J. Mitternacht, V. Turova, T. Blumenstein* Thermographic study of upper extremities in patients with cerebral palsy

Social Dinner

Friday, September 13

- 09.00 *M. Strojnik, G. Paez, M. K. Scholl (invited lecture)* Oximetry Wavelength Selection based on Functional Oxygen Saturation

Session: Bio-applications - Part II

- 09.30 *H. Trabelsi, E. Sediki* Detection of abnormalities under skin tissue by thermography: a numerical study
- 09.50 *G. Paez, M. Strojnik, L. F. Corral* Feasibility of non-contact oximetry: Monte-Carlo simulation
- 10.10 *V. Redaelli, G. Pizzamiglio, P. Selleri, N. Di Girolamo, P.A. Martino, F. Luzi* : Environmental assessment of terrarium in the main species of reptiles through the thermography technique: preliminary results
- 10.30 *V. Veikutis, J. Petrauskaite, E. Tubelyte, A. Bogusevicius* Infrared thermography in breast cancer screening
- 10.50 *A. Ichiki, H. Sakamoto, Y. Obuchi* Development and verification of living body information monitoring system
- 11.10 Coffee Break

Session: Systems, Images and Data Analysis

- 11.30 *E. O'Keefe, E. Liggins* Materials for infrared remote identification & differentiation
- 11.50 *K.O. Petrosyants, I.A. Kharitonov, P.A. Kozynko, A.A. Popov* : Electronic components thermal regimes investigation by IR thermography
- 12.10 *W. Allasia, P. Prinetto, A. Riva* : EAGLE, a compact vision system with two simultaneous eld of view
- 12.30 *S. Soldan, A. Kroll* : Towards automated gas leak detection using IR gas imaging cameras
- 12.50 *W. Swiderski, D. Nesteruk, V. Vavilov* Data fusion in IR thermographic detection of landmines
- 13.10 *A.G. Jara Chavez, F.O. Torres Vicencio* Acceleration algorithm for constant-statistics method applied to the nonuniformity correction of infrared sequences

13.30 Lunch

Session: Advanced Technologies and Materials - Part II

- 14.30 *A. Libbra, A. Muscio* Reverse use of an infrared emissometer for measurement of thermal conductivity
- 14.50 *E.A. Pieczyska, M. Staszczak, L. Urbanski* Infrared imaging of ferromagnetic NiFeGaCo SMA single crystal subjected to subsequent compression cycles
- 15.10 *O. Plekhanov, A. Fedorova* Evaluation of fatigue limit of submicrocrystalline metals based on infrared thermography
- 15.30 *R. Singh, S. Kumar* Effective thermal conductivity of composite materials with spherical

- 15.50 *W. Swiderski, V. Vavilov*: Ultrasonic IR thermographic inspection of graphite epoxy composites: a comparative study of piezoelectric and magnetostrictive stimulation
- 16.10 *W. Di, X. Wu, L. Lin, X. Zhao, H. Luo*: Pyroelectric performances of relaxor-based ferroelectric single crystals and infrared detectors
- 16.30 Coffee Break
- 16.50 *S. Trabelsi, H. Trabelsi, E. Sediki*: Infrared active gas properties and effects on thermal fluid dynamics
- 17.10 *M. Žďárský, J. Valach, D. Kytýž, M. Šperl, T. Fíla*: Sensitivity study of resonance cyclic loading of carbon fibre PPS matrix composite specimen by hi-speed recording thermocamera
- 17.30 *U. Galletti, D. Palumbo, R. De Finis, F. Ancona*: Fatigue damage evaluation with new thermal methods
- 17.50 *M.N. Litvinova, V.V. Krishtop, N.M. Kireeva*: Conversion of incoherent IR-radiation into visible radiation in nonlinear crystals

Closing session and Greetings

5th -6th October 2013, Amsterdam

Seminar: Human and Veterinary Thermography

More information: www.cursus-thermografie.eu

Last date of registration: September 1st 2013

PROGRAMME:

Saturday, October 5th 2013

- 9:00 AM - 9:30 AM Registration (with coffee and tea)
- 9:30 AM - 9:45 AM Word of Welcome
Prof. Dr. Ram Purohit
- 9:45 AM - 10:30 AM The benefits and applications of thermography in zoo animals.
Daphe van Dongen - Valk
- 10:30 AM - 11:15 AM A study into the use of Thermography for Functional Evaluation of Stallion Scrotum and Testes.
Janet Lloyd-Jones
- 11:15 AM - 12:00 PM Thermal imaging in the sled dog.
Dr. Kimberly Henneman, DVM
- 12:00 PM - 1:30 PM Lunch
- 1:30 PM - 2:15 PM New Aspects of Medical Thermography: Advances in Practice
Prof. Dr. med. Marcos Brioschi
- 2:15 PM - 3:00 PM Thermography for evaluation of dermatome patterns in horses as it relates to neck and back injuries.
Prof. Dr. Ram Purohit DVM
- 3:00 PM - 3:30 PM Break
- 3:30 PM - ± 5:00 PM A Review of Thermographic Evidence to Substantiate Acupuncture Meridians.
A look at how thermography has been used in an endeavour to validate Acupuncture and its Meridians. To be followed by a practical replication of one or two studies - incorporating an 'open discussion on 'best practice' whilst imaging.
Janet Lloyd-Jones
- 6:00 PM Dinner

Sunday, October 6th 2013

- 9:00 AM - 9:15 AM Welcome with coffee and tea
- 9:15 AM - 10:00 AM Similarities and dissimilarities of the technique of infrared Imaging in humans and in horses. -
Prof. Dr. med. Kurt Ammer PhD
- 10:00 AM - 10:45 AM Injury Prevention by Biomechanical Thermography Analysis - Prof. Dr. med. Marcos Brioschi
- 10:45 AM - 11:15 AM Break

- 11:15 AM - 12:00 PM Thermal evaluation of the head and neck in the horse. Including the hyoid, TMJ and upper cervicals.
Dr. Kimberly Henneman, DVM
- 12:00 PM - 1:30 PM Lunch
- 1:30 PM - 2:15 PM Thermographic evaluation of back pain in humans or in horses.
Prof. Dr. med. Kurt Ammer PhD
- 2:15 PM - 3:00 PM Thermographic Evaluation of Scrotal and Testes as it relates to various testicular diseases. -
Prof. Dr. Ram Purohit DVM
- 3:00 PM - 3:30 PM Break
- 3:30 PM - 4:15 PM Causations from praxis and relations.
Relations with anatomy, vertebra, physiological systems, dental, emotions, meridians, muscular skeletal
and deeper causations of diseases.
Martin Möhrke

25th-27th October 2013,

American Academy of Thermology, Annual Meeting in Greenville, South Carolina

AAT welcomes you to our 2013 Medical Thermal Imaging Scientific Session in beautiful downtown Greenville, South Carolina!

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the South Carolina Medical Association (SCMA) through the joint sponsorship of Bon Secours St. Francis Health System, Inc. and the American Academy of Thermology. Bon Secours St. Francis Health System, Inc. is accredited by the SCMA to provide continuing medical education for physicians.

Bon Secours St. Francis Health System, Inc. designates this “live activity” for a maximum of 6.75 AMA PRA Category 1 Credit(s) . Physicians should only claim credit commensurate with the extent of their participation in the activity.

To be compliant with the AMA’s **“Physician’s Recognition Award and Credit System, we require physicians to attest to the amount of time they are claiming credit – which should be commensurate with the extent of time they participate in a CME activity.**

The AAT Annual Meeting will be held at the Bon Secours St. Francis Hospital campus.

Pre-Meeting Physician Member Certification Course: Friday, October 25, 2013

Take the next step toward AAT Membership status elevation! Take an AAT Member Certification Course

Saturday, October 26, 2013

General Sessions

08:00am – Registration

08:30am Welcoming Remarks
Jeffrey Lefko, Greenville, SC, Executive Director, American Academy of Thermology

08:45am - Session 1:

Basic Science, Clinical Conditions, AAT Guidelines & Indications

Thermographic Imaging - What, Why, When?

Dr. Robert Schwartz, MD,
Greenville, SC, President of American Academy of Thermology:

The Predictive Value of Neuromuscular Thermography in CRPS

Dr. Philip Getson, DO,
Marlton, NJ, Vice President, American Academy of Thermology:

Thermographic Imaging Uses in Animal Physiology and Anatomy,
Veterinarian Thermography Guidelines

Dr. Tracy Turner, DVM,
Elk River, MN, Board Member, American Academy of Thermology:

10:30am - Break

10:45am - Session 2:

Panel Discussion: Thermography Office Practices and Business Models - *Moderator:* Dr. Robert Schwartz, MD:

Compliance Issues in a Breast Thermography Practice

Dr. John Pittman, MD, Raleigh, NC:
Chair, AAT Website subcommittee

Use of Thermography as a Business Model in Building New Practices

Dr. Bruce Rind, MD, Washington, DC:

Thermography Camera Palettes in a Thermography Imaging Practice

Dr. Tashof Bernton, MD,
Denver, CO: Co-Editor, AAT Newsletter

Thermal Stability in an Imaging Lab

Jane Crawford, RN,
Rockford, Illinois: Chair, AAT Technicians Subcommittee
Monitoring

12:15pm - Lunch (provided)

1:30pm - Session 3:

Panel Discussion: FDA Review and Monitoring Process of Thermographic Cameras and Technical Specifications

Moderator: Andrzej Zielke, MD Allison Park, PA Chair, AAT Devices and Equipment Subcommittee

Infraimaging Camera Specifications Study

Terry Clausung, PE,
Drysedale and Associates, Cincinnati, Ohio: AAT Consultant,

Understanding the Role of the FDA in Thermography

Carol Chandler, DOM,
Lakeland, FL, Member, AAT Devices and Equipment Subcommittee

3:30pm - Break

3:45pm - Session 4:

Panel Discussion: Thermography Licensing, Regulation, and Research Issues and Challenges

Recent State Licensing Boards Activities on Thermography
and Thermographers

John Gilbert, Ph.D,
Professional Licensing Consultant, Asheville, NC:

Canadian Thermography Regulations and Licensing Issues

Dr. Alexander Mostovoy, HD, DHMS,
Toronto, Ontario; Member, AAT Membership Committee

The Current Thermography Status in Australia

Dr. Philip Getson, DO,
Marlton, NJ: Vice President, AAT

Medical Research and Publishing:
The Duke Clinical Research Institute Experience

James Melton, MHA,
Cary, NC: Member, AAT Board of Directors

5:00pm – Annual Scientific Session Wrap Up and Remarks

5:30pm – Session Ends

6:30pm to 7:30pm – Meet and Mingle with the Leadership at the Hilton Hotel

Presentation of the AAT 2013 Achievement Award

Sunday October 27, 2013

Committee Meetings:

07:30am – Shuttle from Hilton Hotel

08:00am – Committee Meetings (Committee members and other attendees):

Membership Committee including:

- •Sub Committee on Complimentary Alternative Medicine (CAM) and Allied Health
- •Sub Committee on Technicians/Technologists.
- •Devices and Equipment Committee
- •Journal/Newsletter
- •Website Committee
- •Education Committee
- •Advocacy Committee

09:15am – General Session (all in attendance)

10:15am – General Session Ends

10:30am – Shuttle returns to Hilton Hotel

10:15am - Board of Directors Meeting (board members only)

1pm - Board of Directors Meeting Ends

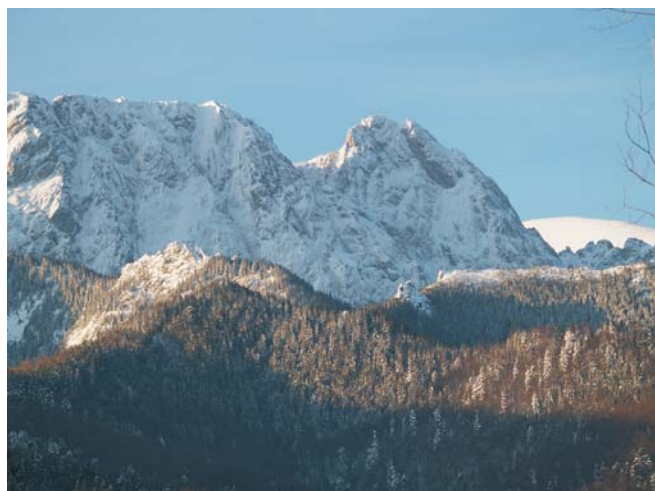
Further information

Dr Robert G. Schwartz

500 Duvall Drive, Greenville, S.C., 29607 USA

email: contact@aathermology.org

Website: aathermology.org



I



XVIII NATIONAL CONGRESS OF THE POLISH ASSOCIATION OF THERMOLOGY

ZAKOPANE 4th-6th April 2014

GENERAL INFORMATION

REGISTRATION FEE: 250.- €

ABSTRACT DEADLINE February 15th 2014

ajung@wim.mil.pl or a.jung@spencer.com.pl

Abstract form will be published in Thermology International and in Acta Bio-Optica et Informatica Medica and registration on line

Professor Jung and the Organizing Committee invite you to this annual conference in the beautiful mountain resort of Zakopane in South Poland, which is 2hours journey by bus from Krakow International airport and the city of Krakow. The conference is in HYRNY Hotel with its wonderful views of the Tatra mountains, and short walk from the town centre.

Local Organizing Committee

Prof. Anna Jung (Chair)
Dr Janusz Zuber (Deputy Chair)
Dr Boleslaw Kalicki
Mgr inz. Piotr Murawski
Agnieszka Rustecka

International Scientific Committee

ProfJung Anna MD,PhD (Poland)
ProfMercer James PhD (Norway)
ProfRing Francis DSc (UK)
ProfAmmer Kurt MD,PhD (Austria)
Prof Wiecek Boguslaw PhD(Poland)
Dr. Kalicki Boleslaw MD,PhD (Poland)
Murawski Piotr MSc,Bsc. (Poland)
Dr Zuber Janusz MD,PhD (Poland)
Dr: Vardasca Ricardo PhD (Portugal)
Dr. Howell Kevin, PhD (UK)
ProfManuel Sillero Quintana PhD. (Spain)
ProfAdriana Nica MD,PhD (Romania)

Registration fee for non Polish participants will be paid in cash on arrival at the conference.

Registration by e-mail is required before March 1st to ensure hotel reservation.

After registration number is issued, delegates are committed to payment of the fee.

Registration includes welcome dinner Friday 15th

Lunch and accomodation.

Extra night + breakfast + 70 €

Accompanying person – 200 €



Call for Papers

Since 1992, the Quantitative InfraRed Thermography (QIRT) conference is a biannual international forum which brings together specialists from industry and academia, who share an active interest in the latest developments of science, experimental practices and instrumentation, related to IR thermography.

Following conferences in Paris (1992), Sorrento (1994), Stuttgart (1996), Lodz (1998), Reims (2000), Dubrovnik (2002), Brussels (2004), Padova (2006), Krakow (2008), Québec City (2010) and Naples (2012), the 12th Quantitative InfraRed Thermography Conference, QIRT 2014, will take place on July 7-11, 2014, at the Mechanics & Engineering Institute of Bordeaux.

QIRT 2014 will cover, but will not be limited to, the following topics:

- State of the art and evolution in the field of IR scanners and imaging systems allowing quantitative measurements and related data acquisition and processing.
- Integration of thermographic systems and multispectral analysis. Related problems like: calibration and characterization of IR cameras, emissivity determination, absorption in media, spurious radiations, 3D measurements, certification and standardization.
- Thermal effects induced e.g. by electromagnetic fields, elastic waves or mechanical stresses.
- Application of IR thermography to radiometry, thermometry and physical parameters identification in all fields such as: industrial processes, material sciences, thermo-fluid dynamics, energetics, non-destructive evaluation, cultural heritage, environment, medicine, bio- medical science, food production...

Important dates

- Abstract submission deadline: November 20, 2013
- Acceptance notification: January 31, 2014
- Paper submission deadline: April 30, 2014

Abstract and Paper Submission

The participants are invited to submit to the QIRT 2014 Web Site by November 20, 2013 an **extended abstract** of 2 pages (letter size A4 format), either for oral or poster presentation, including key figures and main results. A book of abstracts will be distributed at the conference.

Following acceptance notification, **camera ready, full paper** of 6-10 pages including color figures should be submitted to the QIRT 2014 web site by April 30th, 2014. All submissions for oral or poster presentation will be handled electronically via the conference website

QIRT2014.scientificevent.

Steering Committee

X. Maldague (Canada) *Chairman*
 D. Balageas (France)
 J.C. Batsale (France)
 G. Busse (Germany)
 J.M. Buchlin (Belgium)
 G.M. Carlomagno (Italy)
 A. Nowakowski (Poland)
 A. Salazar (Spain)
 S. Svaic (Croatia)
 B. Wiecek (Poland)
 V. Vavilov (Russia)

International Scientific Committee

D. Balageas (France)
 J.C. Batsale (France)
 C. Bissieux (France)
 J.M. Buchlin (Belgium)
 G. Busse (Germany)
 G. Cardone (Italy)
 G.M. Carlomagno (Italy)
 E. Cramer (U.S.A.)
 B. Jähne (Germany)
 P. Lybaert (Belgium)
 C. Maierhofer (Germany)
 X. Maldague (Canada)
 P. Millan (France)
 A. Nowakowski (Poland)
 A. Rozlosnik (Argentina)
 A. Salazar (Spain)
 F.F.J. Schrijer (Nederland)
 S. Svaic (Croatia)
 B. Wiecek (Poland)
 H. Wiggenhauser (Germany)
 V. Vavilov (Russia)

Organizing Committee

J.C. Batsale (*chairman*)
 D. Balageas
 J.L. Battaglia
 S. Boya
 M. Ezan-Bore
 A. Kusiak
 E. Le Guen
 E. Palomo
 C. Pradere
 J. Toutain
 A. Sommier

A Word template to be used for both abstracts and full papers is downloadable at the website. Authors are requested to propose the thematic section in which

the paper should be included.

Abstract submission

Web-Based Proceedings and possible publication in QIRT Journal

Presented papers (oral and posters) will be published online in the QIRT Open-Archives, which can be found at the website: www.qirt.org. A USB flash drive with all conference papers will be also distributed to the conference participants.

After the conference, the Scientific Committee will carry out a pre-selection of the most prominent presented papers for a possible publication in Quantitative InfraRed Thermography Journal after a subsequent review by two experts.

Tutorials, Technical Visit and Workshop

QIRT short courses

In addition to the main technical program, the conference will include one-day short courses (Monday, July 7). The program and the related fees will be defined soon and presented in the conference website. It will include a general introduction to thermography in the morning and specialized courses on various application fields given in parallel during the afternoon (non-destructive evaluation, thermofluid-dynamics, building, thermomechanics...).

Summer course on thermomechanics

A summer-course (given in French) on thermography and thermomechanics of materials will take place from June 30 to July 4. The website will be opened and related to the QIRT conference site in October 2013.

Technical Visits

A lot of research teams are using IR thermography on the Bordeaux University Campus and will be opened for visits.

Student Award

Striving to stimulate young researchers, the organizing committee will award the best conference contribution presented and authored only by students.

Conference fees (VAT included)

Regular participants

- Early rate (deadline: May 20, 2014): (550 €)
- Late rate (deadline: June 27, 2014): (650 €)
- Desk registration rate: (800 €)

Students

- Early rate (deadline: May 20, 2014): (350€)
- Late rate (deadline: June 27, 2014): (450 €)

Fee covers: Book of abstracts, Conference USB Proceedings, Welcome reception, Conference dinner, 3 lunches and coffee breaks. Accommodation is not included.

For regular participants only, fee includes also a subscription to QIRT Journal for 2 years (standard personal subscription rate 100 €/year).

Accompanying persons

- Rate (deadline: June 27, 2014): (120€)

This amount includes the Welcome reception and Conference dinner.

Venue

QIRT 2014 will be held at the Ecole Nationale des Arts et Métiers located in the campus of the Bordeaux University, at 20 min by tram from the historic center of the City. Bordeaux is listed to the UNESCO world heritage. The city is exemplary thanks to the unity of its classical and neoclassical architecture (see www.bordeaux-tourisme.com).

A list of hotels will be given in the conference website. Booking of hotel is not assumed by the conference organization. For students only, low cost accommodations can be booked on the Bordeaux University campus.

Conference website

For further information please visit the site:
QIRT2014.scientific-event.com

or contact the organizing committee at:
QIRT2014@scientific-event.com



European Association of Thermology

Physical Activity and Sports Faculty
Universidad Politécnica de Madrid



POLITÉCNICA

XIII European Association of Thermology Congress

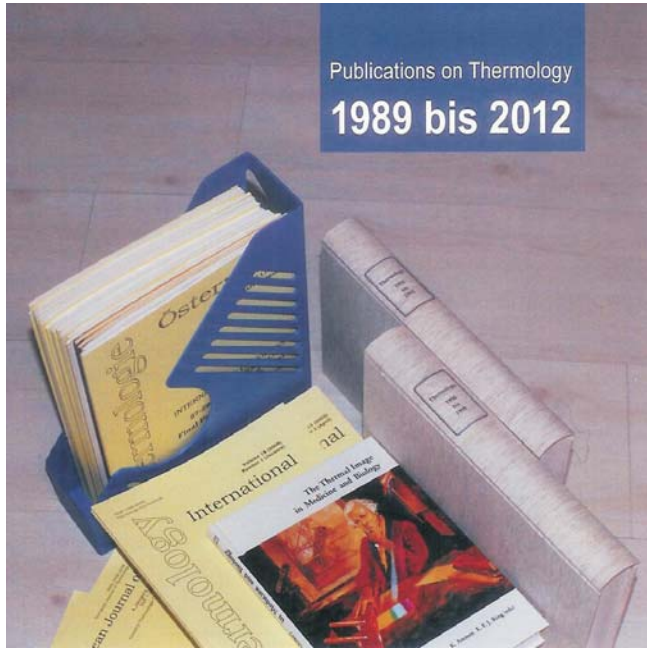


FIRST ANNOUNCEMENT

Thermology in Medicine:

Clinical Thermometry and Thermal imaging

Publications on Thermology 1989 to 2012 - An electronic archive DVD



This data compilation contains all issues of

Thermologie Österreich

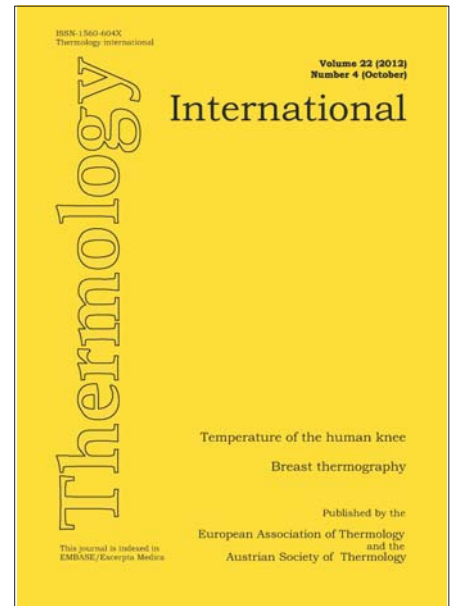
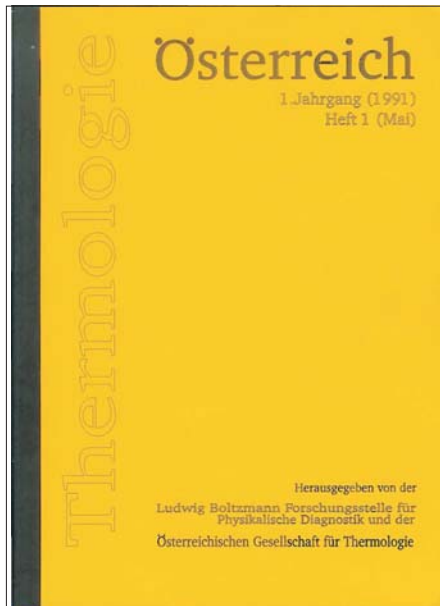
May 1991 to April 1997

European Journal of Thermology

July 1997 to October 1998

Thermology international

January 1998 to October 2012

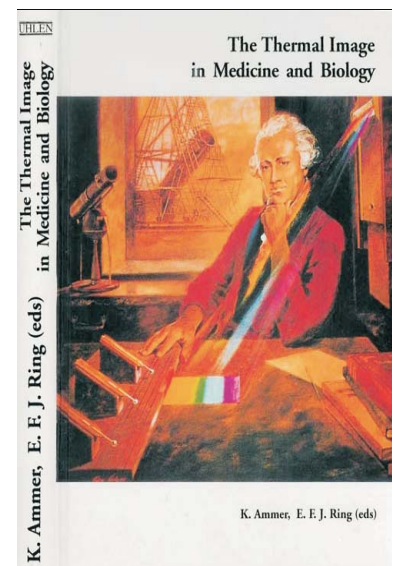


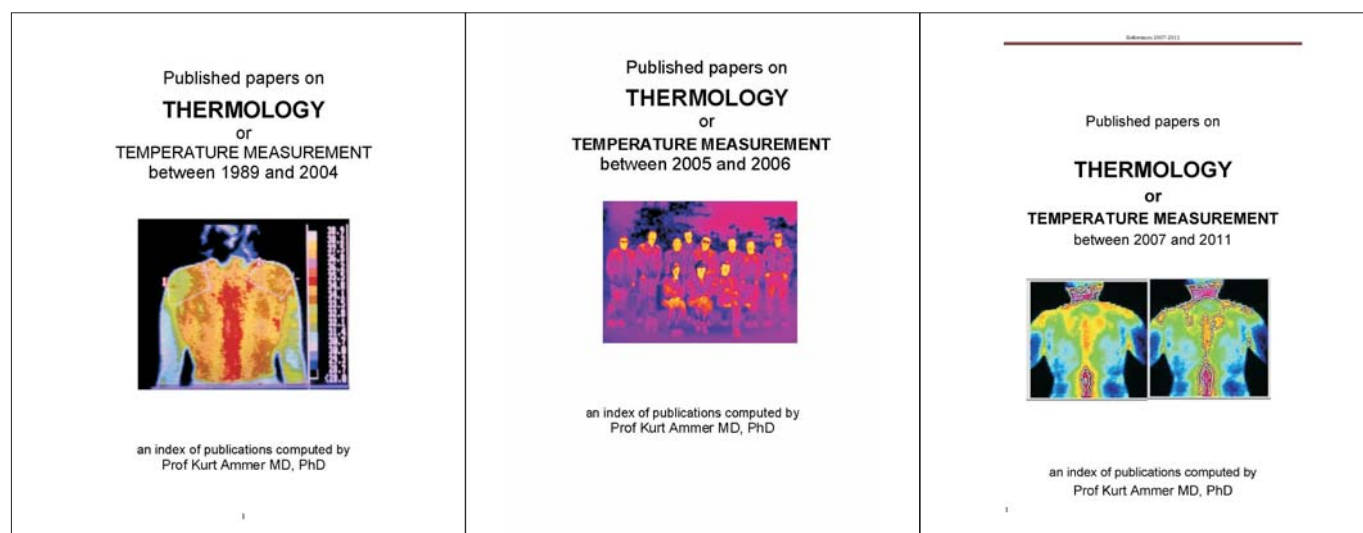
Plus

The Thermal Image in Medicine and Biology

edited by K.Ammer and E.F.J Ring

Uhlen Verlag, Wien (1995)





Plus

Published Papers on Thermology and Temperature Measurement

Volume 1: 1989 to 2004

Volume 2: 2005 to 2006

Volume 3: 2007 to 2011

Plus

Proceedings of the First Thermological Symposium of the Austrian Society of Thermology

Thermographie, evozierte Potentiale, edited by O.Rathkolb and K.Ammer

Plus

Proceedings of the Second Thermological Symposium of the Austrian Society of Thermology

Kontaktthermometrie und Thermographie, edited by K.Ammer and O.Rathkolb

Plus

THERMOGRAPHIE 90 - Eine computergestützte Literatursuche by K.Ammer

The prize for the DVD is 100.- Euro (mailing costs included)

Please send your order by email to

KAmmer1950@aol.com

or

machyl@uhlen.at

Orders by fax: to +43 1 480 54 23 will also be accepted.

Send bank draft with order made to

Bank Austria Unicredit

Account name: Dr Kurt Ammer, European Association of Thermology

IBAN: AT621200000965023054

BIC: BKAUATWW