



THE INTERNATIONAL SOCIETY FOR FRACTURE REPAIR



August Update 2009

Osteoporotic
Fracture Campaign

“Osteoporosis: From Evidence to Action” December 4-5, 2009, in Monte Carlo, Monaco.

In the past seven years the Osteoporosis Fracture Campaign has been involved in generating awareness via educational channels through workshops, symposiums (AAOS, EFORT), and conferences both at the international, national, and regional levels. This two-day event, endorsed by the International Osteoporosis Foundation, is the first time we will be holding workgroup sessions followed by a symposium. Our primary goals are to focus on hip, wrist and vertebral compression fractures in patients with osteoporosis and to:

1. Draw together OFC members in order to elucidate how they have advanced in their various spheres since 2002, and to demonstrate how their association with the OFC has helped in this process
2. Paint a vision of the next five years, identifying key areas such as surgical issues and other endeavors in which we would like to influence global health concerns
3. Advance the current understanding of functional outcomes from the patient perspective using both quantitative and qualitative research

Please see our Preliminary Programme for details of this engaging two-day event. We are also now accepting abstracts for breaking news in Osteoporosis to include in the free paper session. The **August 15th deadline** is fast approaching so please submit abstracts online and be part of this exciting event. Any inquiries can be directed to:

Ms. Tanja Hadersberger at Tanja.Hadersberger@bgu-murnau.de

New Website features:

One of the new features on our website includes Twitter feeds; a way to keep up with society day-to-day updates. Come follow us at [isfrfractures!](http://isfrfractures.com)

ISFR members can also access the member login area to view past meetings, symposia and workshops held by the ISFR with related links and PowerPoint presentations from faculty.

Included in our August Update are two articles of interest to orthopaedic surgeons; one highlights an instructional lecture course held at the Canadian Orthopaedic Association Meeting: “Find it fast on the Internet: How Patients get Information and What Surgeons Need to Know.” You will also find basic science and osteoporosis highlights from our last biennial conference held in Lake Tahoe.



ISFR-IOF presents



“OSTEOPOROSIS: FROM EVIDENCE TO ACTION”
ISFR Hip, Wrist & Spine Workgroups: Improving Outcomes
Hip, Wrist & Spine Symposium: Do we have an answer?

PLEASE SUBMIT YOUR ABSTRACTS BY AUGUST 15TH



OSTEOPOROSIS: FROM EVIDENCE TO ACTION
December 4-5, 2009
Novotel Monte Carlo

CALL FOR ABSTRACTS

DEADLINE
AUGUST 15, 2009

Hosted by the International Society
for Fracture Repair

CHAIRS:

M BHANDARI (CANADA)

A MORONI (ITALY)

E SCHEMITSCH (CANADA)

SCIENTIFIC COMMITTEE:

P AUGAT (GERMANY)

J GOLDHAHN (SWITZERLAND)

A HOANG KIM (CANADA)

D MARSH (UK)

Submit online

WWW.FRACTURES.COM

Osteoporosis: From Evidence to Action - Preliminary Programme

Spine, Wrist and Hip: Improving Outcomes

Friday, December 4, 2009

Novotel Monte Carlo

7:30 am Registration Opens
coffee available

Room *Le Plateau*

Session I: Evidence-Based Orthopaedics

Moderators: E Schemitsch (Canada) & K Akesson (Sweden)

8:00 **Where are we now and where are we going?**
M Bhandari (Canada)

8:10 **Making Sense of Health Care Recommendations:
GRADE System** A Joensson (Germany)

8:20 **Checklists to Grade Quality of RCTs** A Hoang-Kim (Canada)

8:30 **Outcomes Assessment: Validity and Reliability**
D Beaton (Canada)

8:30 - 8:50 Discussion

8:50 - 9:00 Break

9: 00 am to 12:00 pm Workgroup Breakouts

Workgroup I: Hip Fractures

Moderators: M Bhandari & E Schemitsch

Room *Le Plateau*

Workgroup II: Wrist Fractures

Moderators: A Ladd (US) & J Goldhahn (Switzerland)

Room *Talkshow*

Workgroup III: Vertebral Fractures

Moderators: P Heini (Switzerland) & D Marsh (UK)

Room *Backstage*

12:00 pm to 1:00 pm Lunch

1:00 pm to 5:00 pm Workgroup Breakouts

5:00 - 5:20 Coffee Break

Session II: Current Issues in the Design of Orthopaedic Research

Moderators: M Bhandari & A Joensson

5:20 **Limiting Bias in Clinical Research** E Schemitsch

5:30 **Multicenter Trials: Current Challenges** M Bhandari

5:40 **Composite Outcomes** A Hoang-Kim

5:50 **Conflicts of Interest and the Current Industry-
Surgeon Relationship** B Hanson (Switzerland)

6:00 - 6:30 Discussion

8:00 pm Gala Dinner

The Méridien Beach Plaza, Salon Mediterranean

8:30 pm **Welcome Speech** E Schemitsch

8:40 pm **OFC Milestones** A Moroni

Spine, Wrist and Hip: Do we Have an Answer?

Saturday December 5, 2009

8:00 am coffee available

Room *Le Plateau*

Session I: OP Strategies & Patient Management

Moderators: D Marsh & S Bavonratanavech (Thailand)

8:30 **Bone function & structure** H Genant

8:40 **Asian Perspective** S Bavonratanavech

8:50 **European Perspective** K Akesson (Sweden)

9:00 **Canadian Perspective** D Beaton

9:10 **US Perspective** E Puzas (US)

9:20 **Australian Perspective** N Fazzalari (Australia)

9:30 - 10:15 Discussion

10:15 - 10:30 Break

Session II: Wrist Fractures

Moderators: A Ladd & E Puzas

10:30 **Proper Diagnosis & Treatment** J Goldhahn

10:40 **Use of Bone Substitutes** A Ladd

10:50 **A Multidisciplinary Approach** S Goemaere (Belgium)

11:00- 11:20 **Case Studies** L Odert (France)

Session III: AO Satellite Symposium

11:20 **AO Clinical Priority Program: Achievements**

J Goldhahn

11:30 **Complication Reporting: What is the Current Evidence?**

S Goldhahn (Switzerland)

11:40 **Complication Reporting: A Motion Towards Action**

B Hanson

11:50 - 12:15 Discussion

12:15 pm to 1:15 pm Lunch

Session IV: Hip Fractures

Moderators: G Friedlander & S Larsson

1:15 **The Standard of Care** E Schemitsch

1:25 **Femoral neck fractures** JM Feron (France)

1:35 **Trochanteric fractures** T Russell (US)

1:45 **Hip Replacement** J Cazal (Monaco)

1:55 **Emerging Technology** A Moroni

2:05 **A Multidisciplinary Approach** R McCann (US)

2:15 - 2:25 Discussion

Session V: 2:25 - 3:05 Free Paper Session

3:05 - 3:15 Break

Session VI: Fracture Healing

Moderators: E Schemitsch & S Goldhahn

3:15 **Fracture Healing in the Elderly** D Marsh

3:25 **Use of BMPs** G Freidlander (US)

3:35 **Ultrasound** M Bhandari

3:45 **Pharmacological Challenges** H Bryant (US)

3:55 - 4:15 Discussion

Session VII: Industry Perspectives - Yes We Can!

Moderators: A Hoang-Kim & J Goldhahn

4:15 **The Private Sector and Global OP Awareness:**

Addressing the Ethical Challenges

A Valentin (Wyeth)

4:20 **Medical-Surgical Solutions** K Hones (Medi Germany)

4:25 **Advocating Improved Fixation: A Key**

Component of Evidence Based Research

P Procter (Stryker)

4:30 **Commitment to Musculoskeletal Research:**

A Key to Social Responsibility J Mershon (Lilly)

4:35 **New Opportunities in Translational Research:**

A Key to Finding Clinical Significance M Esat (Furlong)

4:40 **Crossing National Boundaries:**

A Key to Standardizing Practice H Gervais (Medtronic)

4:50 - 5:00 Discussion

Room *Talkshow*

Session I: Medtronic Satellite Symposium

Vertebral Compression Fractures

Session II: Vertebral Fractures

Moderators: N Fazzalari & R McCann

1:15 **What is the Standard of Care?** S Emery (US)

1:25 **Surgical Perspectives** P Heini

1:35 **Clinical Outcomes** K Tamalidge (US)

1:45 - 2:30 Discussion

2:30 - 2:40 Break

Session III: 2:40-3:50 Free Paper Session

Session IV: AIC Satellite Symposium

Femoral Neck Fractures

3:50 **Strategies in displaced femoral neck fractures** S Larsson

4:00 **Minimally invasive techniques** B Wippermann (Germany)

4:10 **New Bearing Concepts** A Moroni

4:20-4:45 Discussion

Room *Le Plateau*

5:00 Closing Remarks D Marsh

Cheese and Wine Reception

Osteoporosis: From Evidence to Action
Novotel Monte Carlo, Monaco
December 4-5, 2009

The International Society for Fracture Repair welcomes you to the ISFR's first combined ISFR Workgroup/Symposium that will be held December 4-5, 2009, at the Novotel, Monte Carlo, Monaco. Registration fees for delegates include the Gala dinner.

PLEASE RETURN THIS FORM TO Emilie Cavernes no later than September 15, 2009
at cavemese@im2s.mc, Phone + 377 99 99 10 36, Fax +377 99 99 1049.

Any further questions regarding the scientific programme, please do not hesitate to contact:
Amy Hoang-Kim at isfr.fractures@gmail.com.

First name: _____ **Surname:** _____

Address: _____

Email: _____ **Tel:** _____

Mobile: _____

Please check all that apply:

- 1 night December 3, 2009
- 1 night December 4, 2009
- Single occupancy € 160
- Double occupancy € 180

- ISFR Member Registration fee € 95
- Non-ISFR Member registration fee € 150
- Industry representative fee € 350

Additional nights _____

Check in date _____

Check out date _____

- Single occupancy € 160
- Double occupancy € 180

- Gala dinner 8pm December 4, 2009
(included in registration fee for delegates)
- Gala dinner for industry representatives € 100
- Gala dinner for accompanying persons € 75

- Interested in joining the hip fracture working group
- Interested in joining the vertebral fracture working group
- Interested in joining the wrist fracture working group

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Find it fast on the Internet: How Patients Get Information & What Surgeons Need to Know

64th Canadian Orthopaedic Association Meeting Report
Telus Whistler conference, Whistler, British Columbia - July 3-6, 2009
By Amy Hoang-Kim, MSc
ISFR Coordinator

An instructional course lecture entitled: "Find it fast on the Internet" was held by M Clough (Vancouver, British Columbia, Canada) which addressed how problems of orthopaedic information overload requires an official clearinghouse to speak to issues of information quality. In a review of Orthopaedic IT at the AAOS meeting (2001) it was noted that information patients access on the internet was a major source of concern for orthopaedic surgeons. The identified problem was that most of the literature that orthopaedic patients read is not supplied by orthopaedic surgeons. In a survey of patients in a large orthopaedic practice in the USA, 80% had gone to the internet to further educate themselves prior to, or following, the visit to the orthopaedic surgeon. The concern is the quality of information that is accessed through this medium. Patients utilize search engines and what they find by this route is biased toward the generalized, slick, and commercial, and away from disinterested, scientifically based information. Clough claims that "Over the last twenty years in orthopaedic surgery, it would be difficult to find a single operation that is done in exactly the same way or for exactly the same indications. It would be gratifying if this discrimination were the result of meticulous use of scientific orthopaedic information...if the gathering of data is the bedrock of science, the transformation of data into information has many layers".

There are now services that will establish a physician website and link him to quality information for his patients. The American Academy of Orthopaedic Surgeons (<http://orthodoc.aaos.org/members.cfm>) provides free websites for its members. Active life networks (<http://www.activelifenetwork.com>) will set up and maintain a website with a rich library of literature for patients. Patients can also be directed to the OWL patient information page (<http://owl.orthogate.com/orthopat.html>) and find orthopaedic websites that have been reviewed by other orthopaedic surgeons and are believed to have good quality information. The caliber of these sites is sometimes related to the zeal of the volunteers who maintain the site or to the amount of money that the organization is willing to put into management of the site. The main problem is that patients who use the internet for medical information don't go to the AAOS site because they don't know it exists; don't go to their orthopaedic surgeon's site because there isn't one; and it wouldn't occur to them to visit professional association sites.



Topics that should be covered in orthopaedic patient information pages

Condition:

- Name
- Synonyms
- Pathological process
- Symptoms
- Stages
- Complications of the condition
- Untreated prognosis

Nonoperative interventions:

- Investigations
- Nonoperative treatment
- Risks of nonoperative treatment
- Recovery time for nonoperative treatment
- Prognosis and outcomes for nonoperative treatment
- Complications of non operative treatment
- Costs

Operative interventions:

- Operative treatment,
- Indications for surgery
- Risks of operative treatment
- Surgical complications
- Postoperative rehabilitation
- Postoperative recovery time
- Postoperative prognosis
- Costs
- Location of surgical treatment center

References:

Johnson D and Clough M. The Internet for Orthopaedists. Springer 2003.

JFM Clough. Quality Assessment of Patient Information on Hip Arthroplasty. Canadian Orthopaedic Association 55th Annual Meeting, June 2000

REPORT FROM ISFR 11th BIENNIAL CONFERENCE LAKE TAHOE, US

David Hak, MD Chair of Local Organizing and Programme Committee
and Antonio Moroni, MD Programme Committee Chair

The 11th Biennial Conference of the International Society for Fracture Repair was held in picturesque Lake Tahoe July 13th through the 16th, 2008. The 112 participants from 13 different countries were engaged in an invigorating scientific program organized by the program committee under the direction of Professor Antonio Moroni (Bologna, Italy). The program included six symposia, seven plenary sessions, and 52 scientific poster presentations. Subjects presented during the podium presentations included fracture healing, basic science, osteoporosis, biomechanics, and clinical papers. The meeting immediately followed the International Bone Morphogenetic Protein Meeting. Professor A. Hari Reddi gave the presidential guest lecture on the topic of BMPs and Fractures: From Repair to Regeneration.

Basic Science and Clinical Development

The ISFR has always maintained a high standard at its meetings in its basic science representation and this year was no exception. Sections included: fixation, hip and fracture healing, animal models, imaging and biomechanics. The quality and attendance of these sessions was very high and demonstrated the immense research being conducted in this area. In the fracture healing section, Holstein JH et al (Department of Trauma, Hand & Reconstructive Surgery, Ulm, Germany) conducted a study on deficiencies of folate and vitamin B6 and B12 as well as increased methionine serum concentrations in order to revisit the problem caused by an induction of hyperhomocysteinemia (HHCY) disturbing overall bone metabolism. Blood samples evaluating serum concentrations of HCY, folate and vitamin B12 were drawn from 27 mice. There was comparable size and tissue composition of callus in all groups, and no significant bending stiffness differences between bones of the mice with a methionine-enriched diet or B vitamin-deficient diet were found. However, increased serum concentrations of HCY correlated with decreased serum concentrations of folate and vitamin B12 when compared to controls fed with standard diet. Hoang-Kim A et al (St. Michael's Hospital, Toronto, Canada) noted a trend in the increased use of outcome instruments for assessing functional recovery in the aged with hip fracture. However none of the measures were used consistently which could easily overestimate treatment effects reported in the randomized controlled trials. Out of 86 unique trials, 10 trials at most used the same index: 10 (16.9%) Katz Activities of daily living Index, 9 (15.2%) Harris hip score, and 5 (8.5%) New Mobility Score. Equivalently, poor use of standardized health status and utility measures were found in the systematic review. In the biomechanics section, Antoci V et al (Mimbres Memorial Hospital, Deming, NM, US) compared 4 hybrid systems for external fixation under multiple loading conditions to evaluate differences in motion permitted by the pins and wires together with frame deformation. 15 fiberglass composite tibias with a 2cm proximal metaphyseal gap osteotomy were used. 50% of the motion was achieved from frame deformation and 50% from deformation of the pins and wires.

More highlights will be featured in our house journal, the Journal of Orthopaedic Trauma. We also look forward to our next biennial conference which will take place in London, UK, at the Lords Cricket Grounds on September 19-22, 2010. Please mark your calendars for this event!

MEETINGS OF INTEREST

31st Annual Meeting of the American Society for Bone and Mineral Research
September 11-15, 2009
Colorado, Denver
www.asbmr.org

Annual Meeting of the British Orthopaedic Association
September 15 - 18, 2009
Manchester, United Kingdom

25th Anniversary Annual Meeting Orthopaedic Trauma Association
October 08 - 10, 2009
San Diego, CA

Annual Meeting of the Australian Orthopaedic Association
October 11 - 15, 2009
Cairns, Australia

22nd Annual Congress of the International Society for Technology in Arthroplasty (ISTA)
October 21 - 23, 2009
Big Island, Hawaii, HI

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Call for Abstracts
Deadline August 15, 2009

www.fractures.com
December 4-5, 2009
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contact Amy Hoang-Kim at isfr.fractures@gmail.com for more information or
Follow us on twitter, <http://twitter.com/isfrfractures>
Where you can find useful links to ongoing events & society updates