

thopaedicstoday

Schedule of Events ▼

Orthopaedics & Trauma Surgery in the World of Formula 1 08:15 - 09:45, Madrid Room

The Importance of Postoperative Pain **Management After Sports Injuries** 13:15 - 14:45, Florence Room

Return to Sport Activities After Arthroplasty 17:00 - 18:30, Paris Room

Join your colleagues on Friday, 2 June in the Helsinki Room to serve as a judge for the Free Papers Awards competition.

10:15 - 11:15, Top trauma papers 11:30 - 12:30, Top orthopaedics papers

Patient and surgeon factors affect patients' ability to return to sports after knee surgery



Philippe Neyret

Return to sports has several advantages for patients with degenerative knees who undergo total knee arthroplasty (TKA), unicompartmental arthroplasty, high tibial osteotomy or cartilage

treatments and want to return to sports, according to presenters in a symposium on 31 May, moderated by Philippe Neyret, MD, at the 18th EFORT Annual Congress in Vienna.

Stefano Zaffagnini, MD, who discussed return to sports after TKA, noted patients can experience increased bone mineral density and decreased risk of early prosthesis loosening when they are active following TKA. The surgeon plays a key role in return to sports after TKA, he said.

"We need to motivate our patients much better."

Obesity, female gender and comorbidities make it difficult for patients to return to sports, Zaffagnini said. Although sports can often be pursued postoperatively by patients after TKA, surgeons must be aware of the risk of implant loosening after TKA in an active patient.

About 90% of patients can return to sports after unicompartmental knee arthroplasty (UKA), Mahmut Nedim Doral, MD, PhD, said, noting UKA functional results are traditionally better vs. TKA. The technique

used is also important, particularly for alignment and posterior tibial slope.

"Do not forget conservative methods. Proper preoperative evaluation is key and patient selection is very important," Doral

(Neyret continues on page 7)

Study finds 27% overall all-cause Pinnacle metal-on-metal THR failure rate at 10 years



Gulraj S. Matharu

Patients treated at a single centre with one brand of metal-on-metal total hip replacement had a statistically significantly greater risk of implant failure if they had bilateral surgery or were operated on in 2006 or later, according to the 10-year results Gulraj S. Matharu, BSc (Hons), MBChB, MRCS, of Oxford, United Kingdom, presented 31 May, at the 18th EFORT Annual Congress in Vienna.

The 569 patients studied retrospectively had standard demographics, he said. They underwent THR with the Pinnacle prosthesis (DePuy Synthes) with a 36-mm cobalt chrome head and an uncemented Corail stem (DePuy Synthes).

"This large cohort study of Pinnacle metal-on-metal (MoM) [total hip replacements] THRs has confirmed a high failure rate at 10 years with this device, but it is especially seen if the Pinnacle was put in from 2006 onwards and in bilateral MoM hip patients. This supports (Matharu continues on page 7)

SYMPOSIUM INVITATION THURSDAY, JUNE 1 AUDITORIUM FLORENCE, 13:15 - 14:45



THE IMPORTANCE OF POST-**OPERATIVE PAIN MANAGEMENT** AFTER SPORTS INJURIES









TIMELY

PAIN RELIEF

Zalviso® – the first and only sublingual patient-controlled system for post-operative pain

- Strong and effective pain relief 1,2,3
- Fast onset of action 1,4,5,6,7
- Convenient, safe and efficient route of administration ^{1,8,9}
- Easy to set up and use ^{1,2}







1. Melson T et al. Pain Practice. 2014;14:679—88. 2. Ringold FG, et al, Reg Anesth Pain Med 2015;40:22-30. 3. Jove M. et al., Anesthesiology 2015; Jun 16. 4. Scott JC et al., Anesthesiology 191;74:34-42. 5. Schafer SL, Flood P, The Pharmacology of Opioids. In Geriatric Anesthesiology. New York, NY: Springer Verlag. 2007: Ch. 15, Table 15-1. 6. Lotsch J et al., Anesthesiology 2001;95:1329-1338. 7. Lalovic B et al. Clin Pharmacol Ther. 2006;79:461—79. 8. Willsie SK et al. Clin Ther. 2015;37:145—55. 9. Henry S. Pain Management. In Acute Care Surgery. Philadelphia, PA: Lippincott Williams and Wilkins. 2012: Ch. 14, p. 203.

Zalviso® Prescribing Information Refer to the Summary of Product Characteristics (SmPC) before prescribing. Presentation: Sublingual tablets (3 mm diameter, orange-coloured flat-faced) containing 15 micrograms (mcg) sufentanil (as citrate). Indication: Zalviso is indicated for the management of acute moderate to severe post-operative pain in adult patients. Dosage and method of administration of the patients of the patient of the patient

Free Paper Awards

This year, the Free Paper Awards are divided into two different sessions: trauma and orthopaedics. In each session, a gold, silver and bronze prize will be awarded. At the 18th EFORT Annual Congress in Vienna, the audience will select winners by voting system, based on the content and quality of the presentation. The authors listed here have been nominated for the award.

"EFORT is one of the few scientific meetings that carefully evaluates all submitted papers using three reviewers, who perform the evaluation independently from each other," Jan Verhaar, MD, PhD, EFORT president, said. "The papers selected for our meeting are the best of the best, and the papers for this award represent excellence in our community. I would like to congratulate the presenters who have been selected for this award ceremony."







TRAUM

FRIDAY

2 JUNE

HELSINKI

ROOM

Sven Märdian and colleagues Interprosthetic Fracture Risk Following Ipsilateral Hip and Knee Arthroplasty – Relevance of Interprosthetic Distance

Fabian Krause and colleagues
Weightbearing Radiographs vs. Gravity
Stress Radiographs for Stability of
Supination-External Rotation Fractures of
the Ankle

Hassaan Qaiser Sheikh and colleagues Odontoid Type II Fractures in the Elderly -Complications and Mortality Efstathios Chronopoulos and colleagues The Purpose of Use of a Targeting Exercise Program to Minimize the Post-Operative Strength Deficit of Abductors Muscles After Hip Fracture

Rafael Carbonell and colleagues Long-Term Functional Results of Pink Pulseless Supracondylar Fractures in Children Treated Conservatively

Sandra Bösmüller and colleagues The Influence of Sex and Trauma Impact on the Rupture Site of the Ulnar Collateral Ligament of the Thumb

AND SALES ORTHOPAEDICS

11:30

HELSINKI

ROOM

Maria Anna Smolle and colleagues Why Should Unplanned Excisions Best Be Avoided in Soft Tissue Sarcomas? Results of a Multi-Centre Study Including 728 Patients

Anthony Howard and colleagues

Does Cortical Activation Hold the Key to

Shoulder Instability?

Per Jolbäck and colleagues Does the Surgeon's Experience Affect Patient-Reported Outcomes 1 Year After Primary Total Hip Arthroplasty? A Register-Based Study of 6,713 Cases in Western Sweden Anthony Howard and colleagues
Randomised Control Trial: The Functional

Benefits of Retaining the Infrapatellar Fat Pad in a Total Knee Replacement

Prasad Karpe and colleagues Supramalleolar Osteotomy: A Joint-Preserving Option for Advanced Ankle Osteoarthritis

Ted Enequist and colleagues

Does a Previous Total Hip Replacement
Influence Patient-Reported Outcomes in
Patients Undergoing Low Back Surgery?

Jacques Duparc Award winners receive a grant and a certificate as recognition for submitting one of the ten best-scored poster presentations of the year.

Winner: Cecilia Rogmark and colleagues Decreasing Predictive Power of Comorbidity on Mortality After Total Hip Arthroplasty Over Time

Winner: Klemen Stražar and colleagues Hipstress After Bilateral Periacetabular Osteotomy Based on Medialization of the Hip Centre

Winner: Katja Šuster and colleagues Diagnostics of Staphylococcus Spp. Prosthetic Joint Infections With Bacteriophage K

Winner: Sebastian Radmer and colleagues Three-Dimensional, CT-Assisted Planning Aid in Primary Hip Arthroplasty Winner: Jorge Nuñez Camarena and colleagues

Outcome Of Primary One–Stage Total Hip Arthroplasty for Patients With Tuberculosis of the Hip

Winner: Satoshi Nagoya and colleagues Evaluation of a Navigation System for Re-Orientation Rotational Acetabular Osteotomy (RAO)

Winner: Anastasia Rakow and colleagues Reversibility of MoM Wear Products Related Decrease in the Osteogenic Capacity of Mesenchymal Stromal Cells In Vitro Winner: Stefan BT Bolder and colleagues Paper title: The Effect Of Primary Diagnosis On The Survival After Total Hip Arthroplasty

Winner: Masayuki Miyagi and colleagues Hip Spine Syndrome: Cross-Sectional-Study of Spinal Alignment in Patients With Coxalgia

Winner: Simon Parker and colleagues Does Lumbar Arthrodesis Compromise Outcome Following Hip Arthroplasty? A Case Control Study

Honorary lectures highlight hot topics in orthopaedic research

At each EFORT Annual Congress, two orthopaedic surgeons with international reputations in their field present the Erwin Morscher and Michael Freeman Honorary Lectures. This year, EFORT is pleased to welcome Nico Verdonschot, MD, from The Netherlands, and Henrik Kehlet, MD, from Denmark, who will give lectures on biomechanical modeling and fast-track surgery, respectively. Attendance at these sessions is included in the full Congress registration.

Thursday 1 June 2017 12:45 - 13:15

Development of Patient-Specific Reconstructive Methods Using Advanced Imaging and Biomechanical Modeling Techniques

Nico Verdonschot, MD, is professor in the Department of Biomechanical Engineering at Twente University and in the Orthopaedic Department of Radboud University Medical Center. Prof. Verdonschot coordinates two European consortia that focus on orthobiomechanic problems and is the coauthor of more than 260 peer-reviewed publications.

Verdonschot's research focus is computer simulations of implants, the prediction of



Nico Verdonschot

fractures in weakened bones and musculoskeletal modeling. Verdonschot and colleagues have studied the effect of muscle loads on implants, simulation of periprosthetic bone remodeling, mi-

cromechanics of the cement-bone interface, fatigue behavior of bone cement, the process of bone in-growth into coated implants, simulation of fractures in bones affected by cancer, kinematic behavior of knee prostheses and sensitivity of musculoskeletal models to changes in muscle parameters.

Verdonschot's lecture reviews his research on generating patient-specific computer models using diagnostic imaging technology. With these models, Verdonschot seeks to predict functional outcomes after surgery.

Friday 2 June 2017 12:45 - 13:15

Fast-Track Hip and Knee Replacement – Have We Reached the Goal?

Henrik Kehlet, MD, is professor of



Henrik Kehlet

Perioperative Therapy at Rigshospitalet, Copenhagen University in Denmark, and an Honorary Fellow of the Royal College of Anaesthetists (United Kingdom), the American College

of Surgeons, the American Surgical Association, the German Surgical Society and the German Anaesthesiological Society. Prof. Kehlet has published scientific articles about surgical pathophysiology, acute pain physiology and treatment, the surgical stress response, postoperative immune function and perioperative morbidity. Results of his research led to the concept of fast-track surgery, which has been implemented worldwide to help surgeons and patients attain pain-free and risk-free operations.

The goal of fast-track surgery is to decrease complications and improve postoperative recovery. Fast-track surgery clinical groups have reported a notable decrease in hospital stay and diminished surgical morbidity.

In his lecture, Prof. Kehlet will explore what fast-track surgery has achieved to date and how it applies to hip and knee replacements — two of the most frequently performed orthopaedic procedures.

Low back surgery patients with previous THR have less pain reduction after surgery



Ted Eneqvist

Patients who had previously undergone total hip replacement experienced less reduction of pain 1 year after low back surgery compared to patients with no prior total hip replacement,

according to a presentation scheduled to be presented during the Free Papers award session for orthopaedics at the 18th EFORT Annual Congress in Vienna.

Researchers reviewed the Swedish Spine Register and the Swedish Hip Arthroplasty Register to extract demographic and surgical data, along with patient-reported outcome measures (PROMs), for patients who underwent low back surgery or total hip replacement (THR) for degenerative spine or hip disorders. The researchers combined data from the two registries to identify patients from

both. The two groups were directly matched on age, sex, year of surgery, spinal stenosis, type of surgery and preoperative PROM scores. After selection and matching to a corresponding control patient, the researchers analysed the differences in PROM scores in the study group vs. the controls. One-year patient reported outcomes after low back surgery were also assessed.

After linear regression analyses were used to adjust for age and preoperative PROM scores, the researchers found prior THR was associated with more back pain and worse scores on the ODI but had no correlation with EQ-5D index, EQ-VAS or leg pain VAS. Researchers found no correlation regarding time between surgeries and patient-reported outcomes.

"The combination of degenerative diseases of the hip and spine known as the 'hip-spine syndrome' are common encounters in patients eligible for total hip replacement and low back surgery," Ted Eneqvist, MD, of Sahlgrenska Universitetssjukhuset, Gothenburg, Sweden, told *Orthopaedics Today Europe.* "This study describes the patient-reported outcome measures following low back surgery in patients with and without an earlier total hip replacement, and shows that the patients with an earlier hip replacement have a moderately worse outcome following low back surgery."

Reference:

Eneqvist T, et al. Paper #2337. Scheduled to be presented 2 June 2017 at 12:10 - 12:18 in the Helsinki Room at the 18th EFORT Annual Congress; 31 May - 2 June 2017; Vienna.

Source Info:

Ted Eneqvist, MD, can be reached at Sahlgrenska University Hospital, Blå stråket 5, 413 45 Gothenberg, Sweden; email: ted.eneqvist@vgregion.se.

Disclosure:

Eneqvist reports no relevant financial disclosures.

SYMPOSIUM INVITATION

THURSDAY, 1 JUNE AUDITORIUM FLORENCE, 13:15 - 14:45

THE IMPORTANCE OF POST-OPERATIVE PAIN MANAGEMENT AFTER SPORTS INJURIES

Chair: Prof. Per Kjaersgaard-Andersen

Co-Chair: Prof. Enric Cáceres Palou

13:15 - 13:40 Principles of appropriate pain management

after surgery due to sports injuries

Prof. Per Kjaersgaard-Andersen

13:40 - 14:05 **Pain and recovery –**

what do we know from THA and TKA

Prof. Henrik Kehlet

14:05 - 14:30 Why should orthopedic surgeons worry

about post-operative pain management? -

Introducing an awareness campaign

Prof. Enric Cáceres Palou

14:30 - 14:45 **Q & A**



A COMPANION TO YOUR PATIENT'S SURGICAL JOURNEY

Visit us on www.mysurgicaljourney.com





EFORT Individual Membership Programme

www.efort.org/membership





	International	European 1st	European 2 nd	Young
Exclusive membership benefits				
Preferential EFORT annual congress fee	√	√	√	√
Fast track registration at the EFORT annual congress	√	√	✓	
Access to the full EFORT scientific e-library on EFORTnet	√	√	√	√
Article processing charges for EFORT Open Reviews waived	√	√	✓	√
Preferential rates and advanced notifications for EFORT Educational Programmes		\checkmark	\checkmark	√
Potential to shape future topics of your interest for the EFORT Newsletter Orthopaedics Today Europe		\checkmark		√
Opportunity to serve as an EFORT Board or Committee Member (special requirements to meet according to EFORT statutes)		\checkmark		
Complimentary access to the EFORT Comprehensive Review Course during the annual congress (subject to availability and pre-registration)				√
Preferential rate for the EBOT Exam (subject to acceptance of the application documents)				\checkmark

Variety of Scientific sessions to be held at EFORT Annual Congress

The EFORT 2017 meeting includes a wealth of educational opportunities. The Advanced Course and Comprehensive Review Course will be taught by scholarly and distinguished faculty from all across Europe. Residents who seek to expand their specialty knowledge will find the Easy Evidence Update and Instructional Lecture sessions interesting. Interactive Expert Exchange, Complex Case Discussion and Debate Fora sessions, led by world-renowned faculty, draw on contributions from the audience. Evidence Based Medicine and Symposia sessions allow attendees to hear presentations and review evidence in order to arrive at best practices based on group analysis.

The Advanced Course will feature an extended program on the latest approaches to reconstruction of knee and hip in adults. The course aims to provide joint replacement specialists and consultants with an update on the latest in techniques and treatments.

The Comprehensive Review Course aims to provide the core theoretical knowledge trainees are required to have at the end of their specialty curriculum. The 1-day course addresses key topics, such as pediatrics, re-

construction, trauma and sport activities.

Easy Evidence Update sessions are designed to provide educational material in the form of knowledge skills and attitudes that will enhance best professional practice and allow an easy review of some common conditions in the lower limb.

The Instructional Lectures include a 45-minute presentation by the lecturer and a 15-minute discussion, led by the moderator, between the lecturer and participants.

In Interactive Experts Exchange sessions, faculty members present evidence and preferred techniques. The audience provides their own input. Provocateurs elicit controversy from the audience by questioning the position of each speaker. The discussion concludes with a vote, showing changes in audience opinion.

Complex Case Discussions explore unconventional and challenging cases presented by three faculty who present three uncommon cases each. The cases increase in complexity to push forward the level of analysis. The audience engages in discussion with the panel in order to enrich the exchange and evaluate all possible approaches.

Debate Fora sessions encourage a lively discussion on controversial topics. A moderator leads the debate between two speakers. A short introduction is followed by a presentation on each opposing position. This year's Debate Fora sessions are titled "Cemented vs Cementless Primary THA" and "Infected Osteosynthesis—is Permanent Drainage an Option?"

In Evidence Based Medicine sessions, the organiser presents three questions related to a main topic and the audience answers. Faculty members analyse the results according to the literature review grades of recommendation (ATS Guidelines). The organiser and audience engage in a final discussion.

Symposia consist of three related presentations on one main topic, followed by discussions between presenters and the audience. Together with the moderator, the group concludes on the best practice. Symposia sessions cover a wide variety of topics, from how to get a paper published to the best approaches to femoral neck fractures.

For a complete list of session offerings, visit www.efort.org/vienna2017/scientific-content/advanced-scientific-programme.

(Neyret, continued from page 1)

"Patients want to and can be active after osteotomies," said Ronald Van Heerwaarden, MD.

He discussed high tibial osteotomy (HTO) and studies that focused on the number of patients who returned to sports after HTO and when they returned to sports.

In a 2016 study by S. Ekhtiari and colleagues, 90% of patients returned to sports earlier than 1 year after HTO. Of those patients, 78.6% returned at an equal or higher level than before surgery, Van Heerwaarden said.

Results of a 2013 study by Bonnin and colleagues showed "young, motivated patients can resume strenuous activity fol-

lowing HTO," he said.

Van Heerwaarden explained overcorrection of deformity is unnecessary in soccer players because valgus alignment offers little advantage.

However, the advice an orthopaedic surgeon gives to patients can impact the outcomes in terms of sports activities, he said.

"There are confounding factors. You are one of them. Motivate your patient. In a motivated patient, return to sports is definitely higher."

René Verdonk, MD, PhD, said patient age and BMI appear to be important to return to sports after autologous chondrocyte implantation, microfracture, osteochondral autograft transfer system (Arthrex) and other cartilage repair techniques.

"Short-term vs. long-term return to sports depends on patients and treatment," he said.

Reference:

Neyret P, et al. Symposium: Return to sports after surgery for degenerative knee. Presented at 18th EFORT Annual Congress: 31 May - 2 June 2017, Vienna.

Disclosures:

Doral, Neyret, Van Heerwaarden, Verdonk and Zaffagnini report no relevant financial disclosures.

(Matharu, continued from page 1)

the recent and serious concerns about potential manufacturing differences in more recent years," Matharu said.

Some of those problems led to edge loading and/or high friction, he noted.

In the first 4 years of the implantations, "there was no significant difference

in failure rate between the early and late implantations," Matharu said.

"Seventeen percent of our cohort were failures, the majority of these being for [adverse reaction to metal debris] ARMD, which is unsurprising," he said, noting 72 patients (12.7%) had a failed THR due to ARMD.

Reference

Matharu GS, et al. Paper #710. Presented at: 18th EFORT Annual Congress: 31 May – 2 June 2017, Vienna.

Disclosure:

Matharu reports no relevant financial disclosures.







1. Melson T et al. Pain Practice. 2014;14:679—8. 2. Ringold FG, et al, Reg Anesth Pain Med 2015;40:22-30. 3. Jove M. et al., Anesthesiology 2015; Jun 16. 4. Scott JC et al., Anesthesiology 191;74:34-42. 5. Schafer SL, Flood P, The Pharmacology of Opioids. In Geriatric Anesthesiology. New York, NY: Springer Verlag. 2007; Ch. 15, Table 15-1. 6. Lotsch J et al., Anesthesiology 2001;95:1329-1338. 7. Lalovic B et al. Clin Pharmacol Ther. 2006;79:461—79. 8. Willsie SK et al. Clin Ther. 2015;37:145—55. 9. Henry S. Pain Management. In Acute Care Surgery. Philadelphia, PA: Lippincott Williams and Wilkins. 2012; Ch. 14, p. 203.

Zalviso® Prescribing Information Refer to the Summary of Product Characteristics (SmPC) before prescribing. Presentation: Sublingual tablets (3 mm diameter, orange-coloured flat-faced) containing 15 micrograms (mcg) sufentanii (as citrate). Indication: Zalviso is indicated for the management of acute moderate to severe post-operative pain in adult patients. Dosage and method of administration of the patients of production of point of acute moderate to severe post-operative pain in adult patients. Dosage and method of administration devices. The Zalvisos administration device delivers a single sufferanii 15 mg tablet, on a patient-controlled as needed basis, with a minimum of 20 mins (lockout interval) between doses, over a period of up to 72 hours (the maximum recommended treatment duration). For sublingual use only, The tablet will dissolve under the tongue and should not be crushed, chewed or swallowed. Patients should not eat or drink and minimise talking for 10 mins after each dose. A maximum of 3 doses (45 mcg) can be delivered in one hour. Elderly: No special population studies performed. Safety and efficacy in elderly patients similar to that observed in younger adults. Hepatic/lenal impairment: Limited data available. Administration with a custom in moderate to severe hepatic or severe renal impairment. Paecilatric population: No safety and efficacy established in children below 18 years. Contraindications: Hypersension of patients surface that prescribe the patients of patients of the patients of patients of the pat