CONTENTS

Committees 2
Welcome 3

SCIENTIFIC PROGRAM
Program at a Glance 4
Thursday, 9 October 6
Friday, 10 October 20
Saturday, 11 October 30
E-Posters 32
Name Index 39
Scientific Information 46
General Information 47
Social Program 50
Congress Area Map 51
Industry Symposia 52
Acknowledgements 53
Company Profiles 54

PAST CONGRESSES

<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>President</th>
</tr>
</thead>
<tbody>
<tr>
<td>1994</td>
<td>Heraklion, Greece</td>
<td>E. Dretakis</td>
</tr>
<tr>
<td>1996</td>
<td>Helsinki, Finland</td>
<td>E.B. Riska</td>
</tr>
<tr>
<td>1998</td>
<td>Beaune, France</td>
<td>J. Witvoet</td>
</tr>
<tr>
<td>2000</td>
<td>Bristol, United Kingdom</td>
<td>G.C. Bannister</td>
</tr>
<tr>
<td>2002</td>
<td>Baveno, Italy</td>
<td>R. Giacometti Ceroni</td>
</tr>
<tr>
<td>2004</td>
<td>Innsbruck, Austria</td>
<td>M. Krismer</td>
</tr>
<tr>
<td>2006</td>
<td>Antalya, Turkey</td>
<td>M. Tokgözoğlu</td>
</tr>
<tr>
<td>2008</td>
<td>Madrid, Spain</td>
<td>E. Garcia-Cimbrelo</td>
</tr>
<tr>
<td>2010</td>
<td>Athens, Greece</td>
<td>G.A. Macheras</td>
</tr>
<tr>
<td>2012</td>
<td>Milan, Italy</td>
<td>L. Zagra</td>
</tr>
</tbody>
</table>

FUTURE CONGRESS

2016 Munich, Germany W. Siebert
EXECUTIVE COMMITTEE
Gösta Ullmark - Sweden - President
Luigi Zagra - Italy - Past President
Werner Siebert - Germany - President Elect
Eleftherios Tsiridis - Greece - Secretary General
Theofilos Karachalios - Greece - Treasurer

EDUCATIONAL COMMITTEE
Richard Neville Villar - United Kingdom - Chairman
Gösta Ullmark - Sweden - EHS President
Roberto Binazzi - Italy
Bülent Atilla - Turkey
Rui M. V. Cabral - Portugal
José Cordero-Ampuero - Spain
Hans Gollwitzer - Germany
Michael Nogler - Austria
Søren Overgaard - Denmark
Klaus-Peter Günther - Germany

WEBSITE COMMITTEE
Gerold Labek - Austria

HISTORICAL COMMITTEE
Eduardo Garcia-Cimbrelo - Spain - Chairman
Emmanuel Dretakis - Greece
Reginald Elson - United Kingdom

NATIONAL REPRESENTATIVES
Austria - Martin Krismer
Belgium - Bart Van Backlé
Bulgaria - Asparouh Asparouhov
Czech Republic - Pavel Duml
Denmark - Peter Gebuhr
Finland - Ville Remes
France - Jacques Tabutin
Germany - Werner Siebert
Greece - George A. Macheras
Hungary - Zoltán Csernátoly
Irish Republic - Eric Masterson
Italy - Luigi Zagra
Norway - Arild Aamodt
Portugal - Pedro Dantas
Romania - Bogdan Deleanu
Russia - Viktor Voloshin
Slovakia - Libor Nečas
Slovenia - Rihard Trebše
Spain - Eduardo Garcia-Cimbrelo
Sweden - Arkan Sam Sayed-Noor
Switzerland - Reinhard Elke
The Netherlands - Berend Willem Schreurs
Turkey - A. Mazhar Tokgözoğlu
United Kingdom - Evert J. Smith

PRESIDENT
Gösta Ullmark - Sweden

SCIENTIFIC COMMITTEE
Kjeld Søballe - Denmark - Chairman
Theofilos Karachalios - Greece - Vice Chairman
Eduardo Garcia-Cimbrelo - Spain
Klaus-Peter Günther - Germany
Thomas Ilchmann - Switzerland
Johan Kärnholm - Sweden
Gerold Labek - Austria
Manuel Ribas Fernandez - Spain
Berend Willem Schreurs - The Netherlands
Evert J. Smith - United Kingdom
Mazhar Tokgözoğlu - Turkey
Gösta Ullmark - Sweden
Luigi Zagra - Italy

ABSTRACT REVIEWERS
Arild Aamodt - Norway
Bülent Atilla - Turkey
Roberto Binazzi - Italy
L. Paul A. Bom - The Netherlands
Rui M. V. Cabral - Portugal
José Cordero-Ampuero - Spain
Pedro Dantas - Portugal
Gunnar Flivik - Sweden
Eduardo Garcia-Cimbrelo - Spain
Peter Gebuhr - Denmark
Hans Gollwitzer - Germany
Klaus-Peter Günther - Germany
Thomas Ilchmann - Switzerland
Theofilos Karachalios - Greece
Johan Kärnholm - Sweden
Martin Krismer - Austria
Gerold Labek - Austria
George A. Macheras - Greece
Michael Nogler - Austria
Søren Overgaard - Denmark
Filippo Randelli - Italy
Ville Remes - Finland
Manuel Ribas - Spain
Arkan Sam Sayed-Noor - Sweden
Berend Willem Schreurs - The Netherlands
Werner Siebert - Germany
Evert J. Smith - United Kingdom
Kjeld Søballe - Denmark
Jacques Tabutin - France
Mazhar Tokgözoğlu - Turkey
Rihard Trebše - Slovenia
Bart Van Backlé - Belgium
Per Wretenberg - Sweden
Luigi Zagra - Italy
Dear friends, dear colleagues, dear members of EHS,

It is a great honor for me to welcome all of you to the 11th Congress of the European Hip Society in the lovely city of Stockholm, also called “The Venice of the North”.

The scientific program aims to cover the main hot topics of all hip pathologies: from pediatrics to geriatrics with osteoporotic complications, from conservative surgery to various prosthetic considerations including revisions. We have scheduled 9 Symposia, each based on a theme and 9 Instructional Courses. Some 500 abstracts were submitted from 40 different countries, both within and beyond Europe. After the reviewing process, 215 papers have been accepted for oral presentation and divided according to the topics into 24 different sessions. The nine best abstracts, presented in a special session, will compete for two awards. 157 more abstracts have been selected for e-poster presentation, workstations to view the e-poster sessions are available in the exhibition during the Congress days. E-posters will be on-line after the Congress.

I hope that these two and half very busy days will be rich with scientific information and will inspire debate among the attendees and I am sure that they will constitute an opportunity for all of us to improve our knowledge and skills. I want to thank all the members of the SciCom for supporting me in organizing this important event, the organizing secretary for the technical help, the reviewers for the excellent job in evaluating all the submitted papers, the sponsoring industries and above all the speakers for their high scientific contribution to the 11th Congress of the European Hip Society.

Sweden and Stockholm with its archipelago, its historical places like The Old City, the Royal Castle, the Vasa ship, and all the museums are proud to host you all.

I look forward to meeting you and I wish you an exciting experience in Stockholm!

Gösta Ullmark

President of the European Hip Society
<table>
<thead>
<tr>
<th>Time</th>
<th>ROOM A1</th>
<th>ROOM A2</th>
<th>ROOM 24-25</th>
<th>ROOM 35-36</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.20</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Cup revision and bone reconstruction</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Imaging</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Pediatrics / Primary Conservative Surgery</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Trauma 1</td>
</tr>
<tr>
<td>10.00</td>
<td><strong>Coffee break</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.15</td>
<td><strong>Symposium 1</strong>&lt;br&gt;Questions from society and government. Interpretation and data analysis from the profession</td>
<td><strong>Symposium 3</strong>&lt;br&gt;Sport and arthroplasty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.45</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Resurfacing / Metal on Metal</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Short Stems</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Tribology / Materials</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Trauma 2</td>
</tr>
<tr>
<td>13.00</td>
<td><strong>Industry Symposium</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.05</td>
<td><strong>Instructional Lecture 11</strong>&lt;br&gt;Joint preserving procedures – arthroscopy vs periacetabular osteotomy</td>
<td><strong>Instructional Lecture 13</strong>&lt;br&gt;Treatment of acetabular fractures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.05</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Complications in THA</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Anterior Approach</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Tribology / Ceramic</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Outcome measures</td>
</tr>
<tr>
<td>16.05</td>
<td><strong>Coffee break</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.20</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Primary THA various</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;THA Revision various</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Basic Science</td>
<td><strong>Oral Presentations</strong>&lt;br&gt;Clinical Pathways</td>
</tr>
<tr>
<td>17.40</td>
<td><strong>Symposium 9</strong>&lt;br&gt;Early predictors of THA outcome</td>
<td><strong>Instructional Lecture 18</strong>&lt;br&gt;Management and outcomes of periprosthetic fractures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.10</td>
<td><strong>Opening Ceremony</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.00</td>
<td></td>
<td></td>
<td></td>
<td><strong>Welcome Reception</strong>&lt;br&gt;City Hall Stockholm</td>
</tr>
</tbody>
</table>
## Friday 10 October

<table>
<thead>
<tr>
<th>Time</th>
<th>Room A1</th>
<th>Room A2</th>
<th>Room 24-25</th>
<th>Room 35-36</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.20</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
</tr>
<tr>
<td>Stem revisions</td>
<td>Tribology / Polyethylene</td>
<td>Arthroscopy</td>
<td>Dual mobility</td>
<td></td>
</tr>
<tr>
<td>9.20</td>
<td>Instructional Lecture 16</td>
<td>Instructional Lecture 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management strategies of the infected hip arthroplasty</td>
<td>Patient reported outcome measures (PROMs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.20</td>
<td>Coffee break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.35</td>
<td>Symposium 5</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
</tr>
<tr>
<td>Revision of the femoral component</td>
<td>Infection</td>
<td>Complex primary THA</td>
<td>Particles</td>
<td></td>
</tr>
<tr>
<td>12.05</td>
<td>Instructional Lecture 14</td>
<td>Instructional Lecture 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Functional outcome of hip fracture treatments</td>
<td>Introduction and monitoring of new thra implants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.05</td>
<td>Industry Symposium</td>
<td>Industry Symposium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.25</td>
<td>Symposium 4</td>
<td>Symposium 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The painful hip replacement</td>
<td>Revision of the acetabular component</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.55</td>
<td>Coffee break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.10</td>
<td>Symposium 8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hip arthroplasty registers, aims, effects and consequences</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.40</td>
<td>EHS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.50</td>
<td>General Assembly</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Saturday 11 October

<table>
<thead>
<tr>
<th>Time</th>
<th>Room A1</th>
<th>Room A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30</td>
<td>Instructional Lecture 15</td>
<td>Instructional Lecture 17</td>
</tr>
<tr>
<td>Bone substitutes around the hip</td>
<td>Revision of metal on metal</td>
<td></td>
</tr>
<tr>
<td>9.30</td>
<td>Symposium 7</td>
<td>Oral Presentations</td>
</tr>
<tr>
<td>Update on treatment of the paediatric and ddh sequel hip</td>
<td>The 9 best abstracts</td>
<td></td>
</tr>
<tr>
<td>11.00</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>11.20</td>
<td>Symposium 2</td>
<td></td>
</tr>
<tr>
<td>Questions to the scientists. New technologies - What is the truth? (exchangeable necks, MIS, THR short stems)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.50</td>
<td>Awards and Closing Ceremony</td>
<td></td>
</tr>
</tbody>
</table>
11th Congress

8.20 ROOM A1 ORAL PRESENTATIONS CUP REVISION AND BONE RECONSTRUCTION Chairman: Per Wretenberg (Sweden)

8.20 Graft and retain: lesional treatment for osteolysis around well-fixed shells - medium-term follow-up A. Memarzadeh, D. Arvinte, M. Sood (United Kingdom)

8.28 Cemented revision total hip arthroplasty with use of both acetabular and femoral impaction bone-grafting in patients younger than fifty-five years B.W. Schreurs, M. A.J. te Stroet, W.H.C. Rijnen, J.W.M. Gardeniers, A. van Kampen (The Netherlands)

8.36 Lateral mesh can be insufficient to avoid cup loosening in large segmental defects using impaction bone grafting in acetabular revision surgery E. García-Cimbrelo, E. García-Rey, A. Cruz-Pardos (Spain)

8.44 Single stage revision total hip replacement for patients with massive bone defects A.M. Hany Saleh ElMeazay, A. Ebied (Egypt)

8.52 New device for healing stimulation of bone graft. Clinical follow up of 62 acetabular revisions H. Stigbrand, G. Ullmark (Sweden)

9.00 The use of biotechnologies in revision of prosthetic hip replacement M. Colombo, E. Mazza, S. Mazzola, E. Malagoli, G.M. Calori (Italy)


9.16 Massive structural allograft in revision total hip arthroplasty, minimum five year follow-up D. Savadkoohi, A. Alamzadeh, M. Moosavi, B. Siavashi (Iran)

9.24 Early stability and ingrowth of 3D trabecular titanium in revision acetabular reconstruction A. Patel, T. Hayes, P. Whittingham-Jones, N. Davies, T. Waters (United Kingdom)


9.40 Five year clinical outcomes and survivorship of a three dimensional porous titanium shell in revision total hip replacement R. Ramakrishnan, M. Arthur, G. Westrich, R. Molloy, E. Garling* (USA, *The Netherlands)

9.48 Acetabular revision for major pelvic protrusio. Indications for an extra peritoneal approach J. Tabutin, F. Gouin, O. Gastaud, J.-A. Epinette, P. Mertl (France)

10.00 Coffee break

10.15 ROOM A1 SYMPOSIUM 1 QUESTIONS FROM SOCIETY AND GOVERNMENT. INTERPRETATION AND DATA ANALYSIS FROM THE PROFESSION Chairman: Theofilos Karachalios (Greece)

10.15 Commonly asked questions George Macheras (Greece)

10.25 Interpretation of basic science data Richie Gill (United Kingdom)
SYMPOSIUM 1
QUESTIONS FROM SOCIETY AND GOVERNMENT. INTERPRETATION AND DATA ANALYSIS FROM THE PROFESSION (cont.)

10.45 Interpretation of Level I, II and III data
Eduardo García-Rey (Spain)

11.05 Interpretation of registry data
Gerold Labek (Austria)

11.25 Methodology rigor and Closing remarks
Theofilos Karachalios (Greece)

11.45 ROOM A1
12.45 ORAL PRESENTATIONS
RESURFACING / METAL ON METAL
Chairman: Luigi Zagra (Italy)

11.45 Is lateral opening of the cup related to pelvic tilt on the surgical table?
J. Cordero-Ampuero, R. Fole, B. López-Hernando, E. González-Fernández, P. Peñalver, A. Maldonado (Spain)

11.53 Changes in bone mineral density in the proximal femur up to five years after hip resurfacing versus uncemented total hip replacement; a randomized controlled trial
D. Gerhardt, J. Smolders, J. van Susante (The Netherlands)

12.01 Enhancing resistance to fracture in hip resurfacing - Effect of pin cementation
U.J. Schlegel, J. Siewe, P. Eysel, M.M. Morlock (Germany)

12.09 Mid-term clinical and radiological results of size 36mm head metal-on-metal articulation total hip arthroplasty. Mean of 4 (1-7) years follow up
H. Akrawi, Z. Hashim, A. Ng, A. Shetty (United Kingdom)

12.17 Medium-term results of the ReCap hip resurfacing system - A single surgeon’s series
M. Kiran, S. Santhapuri, D. Arvinte, M. Sood (United Kingdom)

12.25 Clinical outcome comes with Cormet hip resurfacing arthroplasty from an independent centre-at a minimum follow-up of 5 yrs
R. Maheshwari, A. Kirwadi, A. Cooper, A. Bruce, S. Madan, M. Papanna (United Kingdom)

12.33 Five-year, prospective study of metal ion release following metal-on-metal total hip arthroplasty with an algorithm for management
S. Slagis, N. Skrepnik (USA)

14.05 ROOM A1
15.05 INSTRUCTIONAL LECTURE 11
JOINT PRESERVING PROCEDURES – ARTHROSCOPY VS PERIACETABULAR OSTEOTOMY
Chairman: Kjeld Søballe (Denmark)

14.05 Peri-acetabular osteotomy - The London experience
Marcus Bankes (United Kingdom)

14.20 The outcome and complications of arthroscopy for FAI
Bent Lund (Denmark)

14.35 The labral tear
Manuel Ribas (Spain)

14.50 Mini approach to PAO
Kjeld Søballe (Denmark)
11th Congress

15.05 ROOM A1
16.05 ORAL PRESENTATIONS

COMPLICATIONS IN THA
Chairman: George Macheras (Greece)

15.05 Hypertrophy of the tensor fasciae latae muscle as a complication after hip arthroplasty. Report of 6 cases

15.13 Abductor biomechanics clinically impact the total hip replacement dislocation rate
E. García-Rey, E. García-Cimbrelo, A. Cruz-Pardos (Spain)

15.21 High risk of early periprosthetic fractures after primary hip arthroplasty using a cemented, tapered, polished stem - An observational prospective cohort study on 1404 hips followed for a mean of 4 years
C. Brodén, S. Mukka, O. Muren, T. Eisler, H. Boden, A. Stark, O. Sköldenberg (Sweden)

15.29 Removal of restrictions following primary THA with posterolateral approach does not increase early dislocation
H. Husted, A. Troelsen, K. Stahl Otte, T. Oersnes, S. Ladelund, K. Gromov (Denmark)

15.37 How to decrease cumulative dislocation risk with a Charnley-type primary total hip arthroplasty. A comparative review of 320 implants with a follow-up of minimum 10 year
J.H. Caton, J.L. Prudhon (France)

15.45 Revision THR with dual mobility cups: a good choice to reduce dislocation rate
M. Puthiya Veettil, C. Rennie, D. Dunlop (United Kingdom)

15.53 Fracture of the ceramic insert in total hip arthroplasty
R. Fernandez-Fernandez, P. Diaz-Freire, F. Oñorbe-Sanfrancisco, E. Gil-Garay (Spain)

16.05 Coffee break
16.20

16.20 ROOM A1
17.40 ORAL PRESENTATIONS

PRIMARY THA VARIOUS
Chairman: Pavel Dungl (Czech Republic)

16.20 Eponyms in orthopedic surgery, approaches to the hip
M. Somford, D. Hoornenborg, J.-J. Wiegerinck (The Netherlands)

16.28 The effect of orthopaedic surgery on the intrinsic properties of surgical gloves
A. Abdulkarim, A. Moriarity, E. Sheehan (Ireland)

16.36 Quality of outcome data in total hip arthroplasty: cumulative results from clinical studies and joint registries over 5 decades
C. Pabinger, A. Bridgens*, A. Berghold, P. Wurzer, N. Böhler, G. Labelk (Austria, *United Kingdom)

16.44 A nationwide registry study on Charnley class and health related quality of life after total hip replacements: women in class C fail to a higher degree to improve their mobility dimension
M. Gordon, P. Frumento, O. Sköldenberg, M. Greene*, G. Garellick, O. Rolfson (Sweden, *USA)

16.52 Is there a role for the uncemented Thompson hemiarthroplasty? A consecutive series of 1445 cases
D. Morley, A. Pradhan, I. Starks, P. Gallagher, P. Roberts (United Kingdom)

17.00 Cementless total hip arthroplasty: a bilayer coating to ensure cups survival rate as well than stems
A. Ferreira (France)

17.08 Two-year outcomes of a multicentre prospective densitometric study on Trabecular Titanium™ periacetabular osseointegration
A. Bistolfi, L. Massari, A. Causero, F. Castoldi, G. Giglio Fiorito, C. Pari, A. Francescotto, P. Rossi, D. Deledda, P. Tosco, P. Grillo, G. Carli, S. Burelli (Italy)
17.16 One-stage bilateral total hip arthroplasty through harding approach: functional outcomes and complications  
F. Safdari, A. Taheriazam, H. Ettehad (Iran)

17.24 Is patient body weight important for the choice of the material for the bearing articulation in artificial hip joints? 
M. Morlock, E. Hoenig, A. Hothan (Germany)

17.32 Bipolar hemiarthroplasty in elderly with femoral neck fracture using anterior approach: faster rehabilitation, less complication  
S.J. Mortazavi, N. Salehi (Iran)

17.40 ROOM A1

19.10 SYMPOSIUM 9  
EARLY PREDICTORS OF THA OUTCOME  
Chairmen: Gunnar Flivik (Sweden), Johan Kärrholm (Sweden)

17.40 The patient at risk - Which patient will fail? 
Johan Kärrholm (Sweden)

17.55 RSA to predict failure due to loosening and wear  
Edward R. Valstar (The Netherlands)

18.10 Is periprosthetic bone loss after THA a predictor of future failure? 
Theofilos Karachalios (Greece)

18.25 The role of PET to predict THA outcome  
Gösta Ullmark (Sweden)

18.40 Early detection of poorly performing implants in arthroplasty registries - Possibilities and pitfalls  
Keijo Mäkelä (Finland)

18.55 Discussion

19.10 ROOM A1  
19.50 OPENING CEREMONY
11th Congress

8.20 ROOM A2
10.00 ORAL PRESENTATIONS
IMAGING
Chairman: Leif Ivar Havelin (Norway)

8.20 Arthroplasty surveillance: are radiology reports useful?
S. Rajagopalan, D. Perriman, P. Smith, T. Neeman (Australia)

8.28 Preoperative templating based on digital imaging of 100 uncemented total hip arthroplasties. Accuracy and concordance study
I. Perez-Coto, F. Lobera-Molina, M.A. Sandoval-Garcia, D. Hernandez-Vaquero (Spain)

8.36 Are additional anteroposterior hip radiographs required for precise templating in total hip arthroplasty?
M. Attinger, K. Kuonen, V. Petrov, K. Siebenrock, F. Klenke (Switzerland)

8.44 Modularity and 3-D-hip planning in primary total hip replacement
U. Rebers, H.G. Eleveld* (Malta, *Germany)

8.52 Validity and reliability of plain radiographic measurements after total hip arthroplasty
S. Mahmood, S. Mukka, S. Baea, A. Sayed-Noor (Sweden)

9.00 Changes of pelvic tilt after total hip replacement; evaluation based on radiostereometric analysis up to 7 years
B. Shareghi, J. Kärrholm (Sweden)

9.08 Does robotic-assisted computer-navigation affect acetabular cup positioning in total hip arthroplasty in the obese patient? A comparison study
C. Stake, P. Lodhia, J. Hammarstedt, A. Petrakos, K. Dunne, B. Domb (USA)

9.16 Defining the anatomic range of short stem implantation – Calcarguided restoration of individual CCD-angle
M.P. Kovacevic, K.P. Kutzner, P. Rehbein, J. Pfeil (Germany)

9.24 Effect of femoral offset loss on muscle moment arms in total hip arthroplasty: a 3D biomechanical analysis
H.A. Rüdiger, V. Parvex, A. Terrier (Switzerland)

9.32 Effect of acetabular reaming technique on displacement of the center of rotation
J. Kats, J. Van Doorn, G. Meermans (The Netherlands)

9.40 The influence of hip circumference on cup inclination angle
G. Meermans, I. Goetheer-Smits, R. Lim, J. Van Doorn, J. Kats (The Netherlands)

9.48 Incidence of pseudotumors in “high risk” ceramic-on-polyethylene total hip arthroplasty screened with MARS MRI
D. Das, J. Wullems, K. Brakel, R. Nelissen, W. van der Weegen (The Netherlands)

10.00 Coffee break
10.15

10.15 ROOM A2
11.45 SYMPOSIUM 3
SPORT AND TOTAL HIP ARTHROPLASTY
Chairmen: Manuel Ribas (Spain), Luigi Zagra (Italy)

10.15 Effects of impact activities on bearing surfaces and components. The view of the bioengineer. What current bearings can offer
Paolo Dalla Pria (Italy)

10.27 High impact sports and heavy activities with THA
Florian Naal (Switzerland)
SYMPOSIUM 3
SPORT AND TOTAL HIP ARTHROPLASTY (cont.)

10.39 THA and sport: a meta-analysis
Oliver Marín-Peña (Spain)

Open Crossfire. My preferred implant for the OA active patient.

10.51 Hip resurfacing
Julien Girard (France)

10.57 Short stems
Werner Siebert (Denmark)

11.03 Ceramic on PE
Xavier Flecher (France)

11.09 Ceramic on ceramic
Fritz Thorey (Germany)

11.15 Cemented metal on PE
Matt Wilson (United Kingdom)

11.21 Interactive discussion

11.40 Final remarks

11.45 ROOM A2
12.45 ORAL PRESENTATIONS
SHORT STEMS
Chairman: Werner Siebert (Denmark)

11.45 Primoris: a new short femoral neck prosthesis - Design rationale and 1-2 years clinical results
P.T. Nielsen, G. Blunn*, M.B. Laursen (Denmark, *United Kingdom)

11.53 Periprosthetic bone mineral density after total hip arthroplasty with an amistem or quadra femoral
component performed by a minimally invasive anterior approach (AMIS): a prospective randomised
clinical dual-energy X-ray absorptiometry study
G. Petridis, M. Nolde, J. Beck, M. Scherer, T. Perneger* (Germany, *Switzerland)

12.01 Promising migration pattern at 1 year follow-up of the short primoris femoral stem
M.B. Laursen, J.D. Christiansen, G. Blunn*, P.T. Nielsen (Denmark, *United Kingdom)

12.09 The silent “neck only” hip prosthesis - Short term 3 year outcome results
M. Ahmadi, S. Ross, C. Holton, J. Conroy (United Kingdom)

12.17 Five-years results of the Metha short hip stem femoral for THA in young patients
F. Thorey, S. Budde, M. Lerch, H. Windhagen (Germany)

12.25 More than ten years experience with short stems in THA younger patients
S. Oehme (Germany)

12.33 Femoral neck resection level and hip geometry restoration in three different types of total hip
femoral stem
B. Mavcic, P. Brumat, V. Antolic (Slovenia)

13.00 ROOM A2
14.00 INDUSTRY SYMPOSIUM
(See page 52)
11th Congress

14.05  ROOM A2
15.05  INSTRUCTIONAL LECTURE 13
TREATMENT OF ACETABULAR FRACTURES
Chairman: Luigi Zagra (Italy)

14.05  Diagnosis and planning of stabilisation
Klaus Arno Siebenrock (Switzerland)

14.20  Approaches and fixation
Alessandro Massè (Italy)

14.35  THA in fresh acetabular fractures
Jacques Tabutin (France)

14.45  Multimodal treatment of acetabular fractures
Laurent Sedel (France)

14.55  Discussion

15.05  ROOM A2
16.05  ORAL PRESENTATIONS
ANTERIOR APPROACH
Chairman: Gerold Labek (Austria)

15.05  A retrospective study of patients undergoing total hip replacement with direct anterior approach (AMIS)
A. Russo, F. Mendolia, E. Lo Giudice, T. Di Leo, C. Madonia (Italy)

15.13  Mid-term outcome of primary total hip arthroplasty of the Trident/Accolade System (Stryker®) using the direct anterior approach
K. Berndt, A. Sukthankar, P. Zingg, C. Dora (Switzerland)

15.21  Quantification of surgical trauma: comparison of posterolateral surgical approach and anterior minimally invasive (AMIS) for total hip arthroplasty based on markers of inflammation (interleukins). Preliminary report
F. del Prete, A. Petrini, M. Manfredi, F. Meacci (Italy)

15.29  Short-term results with the AMIStem implanted via anterior approach in primary total hip arthroplasty: Influence of surgeon experience
P. Christofiilopoulos, A. Gonzalez, G. Garavaglia, C. Roussos, R. Peter, A. Lübbeke, P. Hoffmeyer (Switzerland)

15.37  The anterior supine intermuscular approach for total hip arthroplasty: reducing the complication rate by improving the procedure
S. Vehmeijer, Y. den Hartog, N. Mathijssen, S. Peters (The Netherlands)

15.45  Anterior minimally invasive surgery (AMIS) - What we learned in the past 7 years
I. Bricman, S. Ovnic (Slovenia)

16.05  Coffee break
16.20
16.20 ROOM A2
17.40 ORAL PRESENTATIONS

THA REVISION VARIOUS
Chairman: Martin Krismer (Austria)

16.20 Revision strategy in THA ceramic fractures
F. Thorey (Germany)

16.28 Multiple revisions - A risk factor for early failure of total hip arthroplasty
O. Dobrindt, M. Müller, L. Schmelzer, C. Perka (Germany)

16.36 Functional outcome of revision arthroplasty for failed metal-on-metal total hip replacements due to adverse reaction to metal debris; is there a relation with metal ions levels?
H.J. Iqbal, E. Jackson-Taylor, W. Alazzani, E. Clatworthy, A. John (United Kingdom)

16.44 Which way to perform acetabular revision - Reinforcement cage or jumbo cup?
T. Silvester, A. Prlja, K. Ravnihar (Slovenia)

16.52 Trabecular titanium in hip revision surgery
F. Benazzo, M. Cefalì, M. Medetti, L. Perticarini (Italy)

17.00 Trabecular metal cups - A safe option in cup revision surgery
M. Mohaddes, Ola Rolfson, J. Kärholm (Sweden)

17.08 The use of highly porous uncemented acetabular shells in revision total hip arthroplasty: mid-term follow-up clinical and radiographic results
A. Cruz-Pardos, R. Fernandez-Fernandez, E. Garcia-Rey, J. Ortega-Chamarro, E. Garcia-Cimbrel (Spain)

17.16 The Ganz reinforcement ring for AAOS Type III and IV acetabular defects in hip revision arthroplasty
M.K. Abdelnasser, F.M. Klenke, L. Kraler, K.A. Siebenrock (Egypt, Switzerland)

17.24 Acetabular reconstruction cage in revision total hip arthroplasty
H. Ettehad, A. Taheriazam, F. Safdari (Iran)

17.40 ROOM A2
19.10 INSTRUCTIONAL LECTURE 18

MANAGEMENT AND OUTCOMES OF PERIPROSTHETIC FRACTURES
Chairman: Eleftherios Tsiridis (Greece)

17.40 Epidemiology, classifications and registry data from Europe and Australia
Bill Farrington (New Zealand)

17.55 Periprosthetic fractures around hip and fracture implants
Ran Schwarzkopf (USA)

18.10 Periprosthetic fractures of the acetabulum
Stanislav Bondarenko (Ukraine)

18.25 To plate or to revise? B1 fractures, clinical and experimental data, type B fractures
Eleftherios Tsiridis (Greece)

18.40 B2 and B3 fractures using impaction grafting technique for the femoral side, advantages and disadvantages vs long uncemented modular prosthesis
Berend Willem Schreurs (The Netherlands)

18.55 Discussion
8.20 Hip sonography as an example for tele-medicine in the world-wide-web
C. Pabinger, R. Graf (Austria)

8.28 Back-carrying infants to prevent developmental hip dysplasia and its sequelae - Is a new public health initiative needed?
J. Cruickshank, S.M. Graham, J. Manara, L. Chokotho*, W.J. Harrison (United Kingdom, *Malawi)

8.36 Treatment of children with dysplastic coxarthrosis
V. Baskov, V. Neverov (Russia)

8.44 Relationship between crossover sign and acetabular coverage in the dysplastic hip
H. Koyama, H. Hoshino, H. Furuhashi, Y. Matsuyama (Japan)

8.52 Long term results over 30 years after Salter’s pelvic osteotomy for developmental dysplasia of the hip. Relation with femoro-acetabular impingement findings at bone mature age

9.00 25 years clinical and radiological follow-up of developmental dysplasia of the hip (DDH) cases treated by varus derotation osteotomy (VDO) and supra-acetabular pelvic osteotomy

9.08 Tönnis classification is a poor method for grading early hip arthritis
N. Ibañez Aparicio, M. Valera Pertegas, M. Tey Pons, X. Crusi Sererols, R. Sancho Navarro (Spain)

9.16 The mini-open anterolateral approach for the treatment of FAI
B. Quansah, F. Khatun, B. Guhan, A. Massraf (United Kingdom)

9.24 The surgical hip dislocation for the treatment of femoralacetabular impingement. A case study after a mean follow-up of 53 months
F. Sitterlee, S. Kirschbaum, G. Wassilew, C.-F. Perka, M. Müller (Germany)

9.32 Minimising complications of pelvic periacetabular osteotomy with a new minimally invasive approach - Early clinical and radiological results
S. Abouel-Enin, C. Blakey, S. Madan (United Kingdom)

9.40 Reduction of non-unions with a modified technique and allogene bone grafting of the Bernese periacetabular osteotomy
G. Wassilew, V. Janz, C. Perka (Germany)

10.00 Coffee break
11.45  ROOM 24-25
12.45  ORAL PRESENTATIONS
TRIBOLOGY / MATERIALS
Chairman: Arild Aamodt (Norway)

11.45  In-vitro simulation of head-neck taper corrosion using a long term hip simulator wear test
C. Li, A. Parikh*, V. Pawar* (United Kingdom, *USA)

11.53  Severe metal-on-metal bearing wear triggered by 3rd body metal particulates in hip simulator study

12.01  Metal ion levels in patients with modular acetabular hip components, matching CrCo liners with
titanium cups
J.-A. Epinette (France)

12.09  Fretting and corrosion risk of ceramic ball heads with metal sleeves
M. Flohr, T. Pandorf, R. Preuss (Germany)

12.17  Long-term results of contemporary hybrid ceramic on ceramic total hip
L. Sedel, M. el Kaïm, S. Nizard (France)

12.25  Dual mobility UHMWPE liner retention wear evaluation - Explant analysis
T. Neri, B. Boyer, R. Philippot, F. Farizon (France)

12.33  Minimum five-year results for a large diameter metal-on-metal hip replacement from a single
surgeon in a district general hospital: prospective review of revision rate, metal ions, ALVAL and
outcomes for 138 prosthesis
I. Al-Hadad, M.A. Mussa, S. West (United Kingdom)

15.05  ROOM 24-25
16.05  ORAL PRESENTATIONS
TRIBOLOGY / CERAMIC
Chairman: Bülent Atilla (Turkey)

15.05  Ceramic on ceramic bearings: paradox and tribology
P. Chaboche (France)

15.13  Metal ion levels in ceramic-on-ceramic THR with modular necks
J. Somers, C. Van der Straeten (Belgium)

15.21  News on ceramics - Beyond wear reduction
R.M. Streicher (Switzerland)

15.29  Tribological advantages of ceramic-ceramic bearings
T. Pandorf, K.L. Haussler, R. Streicher*, R. Preuss, C. Kaddick* (Germany, *Switzerland)

15.37  Immunological and allergological compatibility of ceramic materials
B. Summer, G. Roider, P. Thomas (Germany)

15.45  Relation between metal taper conditions and the burst load of ceramic components
B. Masson (France), T. Pandorf (Germany)

15.53  Mid- to long-term result of ceramic bearings in total hip arthroplasty
V.E. Ozden, G. Dikmen, B. Beksac, I.R. Tozun (Turkey)

16.05  Coffee break
16.20
11th Congress

16.20 ROOM 24-25 ORAL PRESENTATIONS
BASIC SCIENCE
Chairman: Klaus Peter Günther (Germany)

16.20 Objective functional assessment, lean mass analysis and associated genetic adaptations of the operated leg following total hip arthroplasty
T. Okoro, N. Al-Shanti, A. Lemmey, P. Maddison, J. Andrew, C. Stewart (United Kingdom)

16.28 Hip osteoarthritis, hip arthroplasty and patient balance
M. Pons, A. Pasarin (Spain)

16.36 The hip joint capsule passively stabilises the hip during normal activities
J. Jeffers, A. Amis, J. Cobb, R. van Arkel (United Kingdom)

16.44 The capsular ligaments provide more rotational stability than the labrum or ligamentum teres
R. van Arkel, A. Amis, J. Cobb, J. Jeffers (United Kingdom)

16.52 Native periarticular muscle distribution does not correlate with hip joint orientation
B. Preininger, D. Akigun, P. von Roth, T. Winkler, C. Perka (Germany)

17.00 Resurfacing of femoral head with fetal skull, an experimental study in dog
D. Savadkoohi, M. Khalaji, B. Siavashi, A. Alirezaei, M. Moosavi (Iran)

17.08 Impact of femoral torsion on femoro-acetabular Impingement
A. Reymond, P. Zingg, P. Favre, K. Berndt, C. Dora (Switzerland)

17.16 Electro-chemical testing results of conventional hip stems
A. Faizan, J. Nevelos, W. Swaminathan, K. Ten Huisen (USA)

17.24 Corrosion assessment of 12-14 European tapers used with 28 mm metal-on-metal bearings
(France, *USA, **United Kingdom, ***Sweden)

17.32 Correlation of metal ions in synovial fluid, serum and urine of patients with failed metal-on-metal total hip replacements
A. John, H.J. Iqbal, N. Rath, E. Clatworthy (United Kingdom)
8.20 ROOM 35-36
10.00 ORAL PRESENTATIONS
TRAUMA 1
Chairman: Rui Cabral (Portugal)

8.20 An analysis of the mortality and length of stay of lower limb periprosthetic fractures following lower limb arthroplasty
M. Harris, C. Quinlan, J. Harty (Ireland)

8.28 The trochanteric hook plate in periprosthetic femoral fractures
R. Cabral, J. Cabral, A. Figueiredo (Portugal)

8.36 A biomechanical evaluation of Vancouver Type B1 femoral periprosthetic fracture fixation using a purpose-designed plating system
M. Rashid, M. Gee, P. Achan, J. McCrory, R. Pullin (United Kingdom)

8.44 Can intertrochanteric femur fractures be nailed properly in lateral decubitus position without traction table: retrospective analysis of 207 patients
A. Turgut, B. Günaydin, B. Onvural, Ö. Kalenderer, L. Karapinar, M. Kumbaraci, H. Agus (Turkey)

8.52 Clinical experience with telescoping hip nail
S.K. Choo, H.-K. Oh, D.Y. Jo, Y.K. Kang (South Korea)

9.00 Safety and effectiveness of an new osteosynthesis device dedicated to prevent hip fracture
F. Sibilla, J.-C. Le Huec, H. Demezon, J. Rigal, S. Costes (France)

9.08 Proximal femoral fractures augmentation in elderly patients with osteoporosis: long term results
C. Dall’Oca, G.M. Micheloni (Italy)

9.16 Shortening and varus collapse after femoral neck fractures in young patients
R. Carbonell Escobar, R. Fernandez Fernandez (Spain)

9.24 Total hip replacement for fractured neck of femur: the size of the problem and the challenge of still meeting best practice tariff. A 2 year review of a Teaching Hospital Orthopaedic Department’s experience
G. Hannant (United Kingdom)

9.32 Total hip arthroplasty reduces reoperation risk in fracture patients. A study from the Swedish Hip Arthroplasty Register
C. Rogmark, G. Garellick, J. Kärrholm (Sweden)

9.40 Surgical approach and patient-reported outcome in hemiarthroplasty for femoral neck fractures. A study from the Swedish Hip Arthroplasty Register
O. Leonardsson, O. Rolfson, C. Rogmark (Sweden)

9.48 Total hip replacement for fracture neck of femur: cemented or uncemented?
V. Selvaratnam, A. Borbora, B. Narayan (United Kingdom)

10.00 Coffee break
10.15
11th Congress

11.45 ROOM 35-36
12.45 ORAL PRESENTATIONS

TRAUMA 2
Chairman: Pedro Dantas (Portugal)

11.45 Hip fracture a polytrauma in geriatric patient; serum lactate a prognostic marker
S. Balasubramanian, M. Venkatesan, C. Uzoigwe, T. Coats, S. Godsiff, A. Khan, R. Smith (United Kingdom)

11.53 Defining the episode of care for the hip fracture patient
J. Waddell, E. Hellsten, N. Lo, V. Palda (Canada)

12.01 Improving hip fracture outcomes with integrated orthogeriatric care
M. Middleton, B. Wan, R. da Assunção (United Kingdom)

12.09 The assessment of standards of patient care following total hip replacement in fractures neck of femur: a comparative study
A. Hamam, A. Ng, J. Barclay, Z. Hashim (United Kingdom)

12.17 Outcome of hip fracture surgery in patients with poor pre-fracture mobility
D. Baskaran, S. Jehan, I. Burkinshaw, F. Howell, D. Omonbude, T. Bagga (United Kingdom)

12.25 The effect of osteoporotic treatment on the functional outcome, re-fracture rate, quality of life, hardware complications and mortality in patients with hip fractures
K.G. Makridis, T. Karachalios, L.S. Badras, K.N. Malizos (Greece)

12.33 Are dislocations following hip hemiarthroplasty a predictor of increased mortality?
A. Lampropoulos, M. Panteli, P. Giannoudis (United Kingdom)

15.05 ROOM 35-36
16.05 ORAL PRESENTATIONS

OUTCOME MEASURES
Chairman: Gunnar Flivik (Sweden)

15.05 A new method to assess and quantify learning curve in hip arthroplasty
T. Aulakh, J.-H. Kuiper, J. Richardson (United Kingdom)

15.13 Reliability of the 9-step stair climb test in people with total hip arthroplasty
B. Unver, T. Kahraman, S. Kalkan, E. Yuksel, V. Karatosun, I. Gunal (Turkey)

15.21 Reliability of the performance tests in people with total hip arthroplasty: 50-Foot Timed Walk, and 30-Second Chair Stand Test
B. Unver, T. Kahraman, S. Kalkan, E. Yuksel, V. Karatosun, I. Gunal (Turkey)

15.29 Test-retest reliability and concurrent validity of the International Physical Activity Questionnaire (IPAQ) within patients after total hip arthroplasty
T. Blikman, M. Stevens, I. van den Akker-Scheek, S.K. Bulstra (The Netherlands)

15.37 Are survivorship and function correlated in young hip arthroplasty patients? A prospective study of survivorship and Harris Hip Scores after hip resurfacing, hybrid, cemented and uncemented total hip arthroplasty in patients aged 55 and under with minimum 5-year follow-up
R. Lawton, S. Gill, C. Brown, W. Wang, B. Clift (United Kingdom)

15.45 Soft-tissue balancing in total hip arthroplasty: results in 100 consecutive patients
M. Sood, A. Memarzadeh, D. Arvinte (United Kingdom)

15.53 Hip joint contact load in femoroacetabular impingement population during walking: an exploratory study
G. Mantovani, M. Lamontagne, P. Beaulé (Canada)

16.05 Coffee break
16.20
16.20 ROOM 35-36
17.40 ORAL PRESENTATIONS
CLINICAL PATHWAYS
Chairman: Eduardo Garcia-Cimbreló (Spain)

16.20 Understanding the patient reported factors determining time taken to return to work after joint replacement
B. Kleim, A. Malviya, S. Rushton, D. Deehan (United Kingdom)

16.28 Patient-reported comorbidity is more accurate than hospital-coded comorbidity when predicting primary hip arthroplasty outcomes: results from the advancing quality alliance patient cohort
L.C. Conway, N.J. Goodson, N. Prospero, R. Janardhan (United Kingdom)

16.36 Postoperative total hip arthroplasty patients and their need for online information and online support groups
M. Schmitz, N. Wolf, J. Brunnekreef, M. Faber, B.W. Schreurs (The Netherlands)

16.44 Selecting the right hip implant for our patients. The Dutch strategy
C.C.P.M. Verheyen, B.W. Schreurs, P.A. Bom, J.A.N. Verhaar, R.G.H.H. Nelissen, J. Goosen, R.W. Poolman (The Netherlands)

16.52 Tranexamic acid versus fibrin sealant in total hip replacement. A non-randomised comparative study
A. Borbora, G. Kumar, P. Viju, A. Mahmood (United Kingdom)

17.00 No effect of local infiltration anaesthesia for total hip arthroplasty by anterior supine intermuscular approach, a randomised placebo controlled trial in 75 patients
Y. den Hartog, N. Mathijssen, N. van Dasselaar, P. Langendijk, S. Vehmeijer (The Netherlands)

17.08 Local infiltration anesthesia in total hip arthroplasty. A double-blinded randomised controlled study
T. Strømdal Wik, J. Hofstad, O. Schnell Husby, S. Bjørgen (Norway)

17.16 Pain management following total hip replacement (THR): reporting on our experience using local infiltration anaesthetic (LIA) technique and painkwell pump system
M. Salhab, P. Kimposn, J. Freeman, T. Stewart, M. Stone (United Kingdom)

17.24 Norwich enhanced recovery programme for elective total hip arthroplasty: is it beneficial in patients aged over eighty?
J. Corbett, T. Harrison, E. Pinder, A. Soogumbur, J. Wimhurst (United Kingdom)

17.32 Total hip arthroplasty using the accelerated recovery protocol
L. Kolodziej, A. Bohatyrewicz (Poland)
8.20 Analysis of early revision of primary cemented, cementless, hybrid and resurfacing hip arthroplasty
S. Gill, R. Lawton, J. Thompson, L. Johnston, G. Love (United Kingdom)

8.28 Comparison of re-revision rates following revision of cemented and cementless primary total hip
arthroplasty
P. Gebuhr, A. Pedersen, S. Overgaard, K. Gromov, H. Malchau*, A. Troelsen (Denmark, *USA)

8.36 Clinical and radiographic analysis of 208 femoral component revisions with impaction bone-grafting
and a cemented polished Exeter stem
(The Netherlands)

8.45 Hip revision surgery with the modular revision stem
L. Piovani, L. Perticarini, V. Peschiera, F. Benazzo (Italy)

8.53 A cross-sectional study with 6-20 years follow-up of uncemented Wagner revision stems.
Reoperations bone mineral density, BMD, and clinical evaluation
H. Mallmin (Sweden)

9.01 The Italian-Spanish experience with cementless modular revision stem: outcome of 139 hip after an
average of 5 years follow-up
V. Bellotti, F. De Meo*, E. Astarita, C. Cardenas Nylander, M. Ribas Fernandez, P. Cavaliere*
(Spain, *Italy)

9.09 Re-periprosthetic femoral fractures. Follow-up of 303 periprosthetic fractures
J. Tabutin, O. Gastaud, G. Filippi (France)

9.20 ROOM A1
10.20 INSTRUCTIONAL LECTURE 16
MANAGEMENT STRATEGIES OF THE INFECTED HIP ARTHROPLASTY
Chairman: Theofilos Karachalios (Greece)

9.20 Guidelines for diagnosis and treatment
George Babis (Greece)

9.32 One stage revision surgery. Pros and cos
José Cordero-Ampuero (Spain)

9.44 Two stage revision surgery. Pros and cos
George Macheras (Greece)

9.56 The use of grafts. Pros and cos
José Cordero-Ampuero (Spain)

10.08 Remarks

10.20 Coffee break
10.35
10.35 ROOM A1
12.05 SYMPOSIUM 5
REVISION OF THE FEMORAL COMPONENT
Chairmen: Eduardo Garcia-Cimbrelo (Spain), Luigi Zagra (Italy)

10.35 When and how to deal with well fixed stems?
Carsten Perka (Germany)

10.47 Indications for primary stems
Jeremy Latham (United Kingdom)

10.59 Cementless impaction grafting
Francesco S. Santori (Italy)

11.11 Modular femoral components for revision hip surgery
Xavier Flecher (France)

11.23 Cemented revision of the femur
Berend Willem Schreurs (The Netherlands)

11.35 Role of the tumor prosthesis in revision: when should we bail out?
Mazhar Tokgözölü (Turkey)

11.47 Dealing with femoral bone stock loss in the infected THA
Daniel Kendoff (Denmark)

11.59 Discussion

12.05 ROOM A1
13.05 INSTRUCTIONAL LECTURE 14
FUNCTIONAL OUTCOME OF HIP FRACTURE TREATMENTS
Chairmen: Cecilia Rogmark (Sweden), Karl-Göran Thorngren (Sweden)

12.05 Introduction
Karl-Göran Thorngren (Sweden)

12.10 Better surgery nowadays - Better functional outcome?
Cecilia Rogmark (Sweden)

12.30 Outcome after 4 months reported to the Swedish National Hip Fracture Registry RIKSHÖFT
Karl-Göran Thorngren (Sweden)

12.50 Discussion

13.05 ROOM A1
14.25 INDUSTRY SYMPOSIUM
(See page 52)
Friday 10 October 2014

11th Congress

14.25 ROOM A1
15.55 SYMPOSIUM 4
THE PAINFUL HIP REPLACEMENT
Chairmen: Thomas Ilchmann (Switzerland), Johan Kärrholm (Sweden)

14.25 Prediction of outcome, patient related factors
Per Kjersgaard-Andersen (Denmark)

14.37 Non hip issues (nerval, spine, groin, tumors)
Roberto Rossi (Italy)

14.49 Lateral hip pain after THR
Arkan Sam Sayed-Noor (Sweden)

15.01 Soft-tissue impingement
Nicola Santori (Italy)

15.13 Wear and metal ions
Klaus Peter Günther (Denmark)

15.25 Infection
José Cordero-Ampuero (Spain)

15.37 Initial stability and loosening
Martin Krismer (Austria)

15.49 Discussion

15.55 Coffee break
16.10

16.10 ROOM A1
17.40 SYMPOSIUM 8
HIP ARTHROPLASTY REGISTERS, AIMS, EFFECTS AND CONSEQUENCES
Chairman: Nils Hailer (Sweden), Johan Kärrholm (Sweden)

16.10 Which level? Workload and benefits
Henrik Malchau (USA)

16.25 Implant selection based on revision rates in registers - the way to do it?
Ove Furnäs (Norway)

16.40 Patient reported outcome in registers – A necessary tool to monitor outcome
Maziar Mohaddes (Sweden)

16.55 Have cementless and resurfacing components improved hip replacement for younger patients?
Nils Hailer (Sweden)

17.10 How register data can be used to improve outcome
Göran Garellick (Sweden)

17.25 Panel discussion - Future perspectives: professional feed-back to the profession - Is there an alternative?
Nils Hailer (Sweden), Johan Kärrholm (Sweden)

17.40 ROOM A1
18.50 EHS GENERAL ASSEMBLY
8.20  ROOM A2
9.20  ORAL PRESENTATIONS
TRIBOLOGY / POLYETHYLENE
Chairman: Rihard Trebšč (Slovenia)

8.20  UHMWPE acetabular liners: material, treatments, coupling diameter and design. What really matters?
P. Dalla Pria, L. Giorgini, A. Giusto, L. Costa (Italy)

8.28  Polyethylene wear of the cup in total hip replacement with Muller reinforcement ring
A. Sirka, M. Clauss*, S. Tarasevicius, H. Wingstrand**, J. Stucinskas, T. Ilchmann* (Lithuania, *Switzerland, **Sweden)

8.36  Is wear low and functional recovery better or faster with a large versus small femoral head against HXLPE?
B. Grimm, R. Senden, I. Heyligers (The Netherlands)

8.44  Low wear in a moderately crosslinked polyethylene cup in 32 mm articulation. Two years RSA measurement of wear and migration
B. Flatøy, S.M. Röhrl, L. Nordsletten, J. Rydinge, J. Dahl (Norway)

8.52  Porous titanium cup with vitamin E-liner compared to conventional cup in total hip arthroplasty. A randomized trial
M. Salemyr, O. Muren, G. Chammout, T. Ahl, H. Bodén, A. Stark, O. Sköldenberg (Sweden)

9.00  Three-year multicenter RSA evaluation of vitamin E diffused highly cross-linked polyethylene liners and acetabular cup stability
N.H. Sillesen, M. Greene*, P.T. Nielsen, M.B. Lauersen, A. Troelsen, H. Malchau* (Denmark, *USA)

9.08  Three-year follow-up of a long-term registry-based multicenter study on Vitamin E diffused polyethylene in total hip replacement
H. Malchau, N. Sillesen*, M. Greene, A. Nebergall, J. Huddleston, R. Emerson, E. Garcia-Cimbrelo**, P. Gebuhr, A. Troelsen (USA, *Denmark, **Spain)

9.20  ROOM A2
10.20  INSTRUCTIONAL LECTURE 12
PATIENT REPORTED OUTCOME MEASURES (PROMs)
Chairman: Evert J. Smith (United Kingdom)

9.20  Beyond compliance
Evert J. Smith (United Kingdom)

9.35  The role of PROMs in the NHS
Peter Kay (United Kingdom)

9.50  15 years experience of PROMs in the Swedish Hip Arthroplasty Register
Göran Garellick (Sweden)

10.05  What is a revision?
Thoralf Liebs (Germany)

10.20  Coffee break
10.35 The national incidence of periprosthetic joint infection after primary total hip replacement in Sweden - A new method of surveillance
V. Lindgren, P. Wretenberg, J. Kärrholm, G. Garellick, M. Gordon (Sweden)

10.43 Does an intra-articular steroid injection within 6 months of surgery increase risk of deep seated infection in hip arthroplasty patients?
A. Glover, K. Gunasekaran (United Kingdom)

10.51 Bacterial contamination of diathermy tips used during orthopaedic procedures
P. Coffey, A. Abdulkarim, A. Moriarity, E. Sheehan (Ireland)

10.59 Percutaneous joint aspiration is not reliable for the exclusion of persisting infection in two-stage hip exchange
T. Winkler, V. Janz, B. Preininger, A. Trampuz, C. Perka (Germany)

11.07 Cultivation of sonicate fluid in blood culture bottles is superior to conventional agar plate cultures
V. Janz, G. Wassilew, M. Müller, C. Perka (Germany)

11.15 Culture of samples obtained by sonication versus conventional culture for prosthetic joint infection diagnosis
N. Cachero, J.J. Ballester, J. Marante, I. Andrés, P. Casanova, A. Romero, A. Zapata, G. Jimenez, J.A. Andrés, F. Brun (Spain)

11.23 Prosthetic joint infections and bearings
R. Trebše, V. Levašič, S. Kovač (Slovenia)

11.31 Is infection really ruled out?
O. Dobrindt, L. Schmelzer, M. Müller, C. Perka (Germany)

11.39 High success rate for routine one-stage exchange for infected THR
R. Lengert (France)

11.47 Single versus staged revision for patients with contained peri prosthetic infection of the hip
A. Ebied, A.A. Ebied, S. Marei (Egypt)

11.55 Two-stage treatment of infected total hip arthroplasty with an articulating cement spacer while retaining a well-fixed cementless stem

12.05 Algorithm of introduction
Henrik Malchau (USA)

12.20 The potential use of registries in the introduction of new implants
Keith Tucker (United Kingdom)

12.35 Hip prosthesis introduction and early revision risk: a nationwide population based study covering 39125 operations
Mikko Peltola (Finland)

12.50 Discussion
13.05  ROOM A2
14.25  INDUSTRY SYMPOSIUM
       (See page 52)

14.25  ROOM A2
15.55  SYMPOSIUM 6
       REVISION OF THE ACETABULAR COMPONENT
       Chairmen: Evert J. Smith (United Kingdom), Mazhar Tokgözüoğlu (Turkey)

14.25  Comparison of tantalum and titanium in high porosity cups
       Francesco Benazzo (Italy)

14.37  Cages versus metal augments
       George Macheras (Greece)

14.49  Impaction bone grafting of the acetabular socket
       Gösta Ullmark (Sweden)

15.01  State of the art in pelvic discontinuity
       Bülent Atilla (Turkey)

15.13  Role of ceramics in revision
       Luigi Zagra (Italy)

15.25  Dual mobility - The answer?
       Jean-Alain Epinette (France)

15.37  The role of cemented cups
       Maziar Mohaddes (Sweden)

15.49  Discussion

15.55  Coffee break
16.10
8.20 Molecular characteristic of the tissues from hips with femoroacetabular impingement

8.28 Does primary hip arthroscopy result in improved clinical outcomes? A 2-year clinical follow-up on a mixed group of 738 consecutive primary hip arthroscopies performed at a high volume referral center
T. Jackson, A. Gupta, K. Dunne, J. Redmond, C. Stake, B. Domb (USA)

8.36 Joint preservation after hip arthroscopy in patients with FAI. Prospective analysis with a minimum follow-up of five years
F. Comba, A. Julian, G. Zanotti, B. Martin, F. Piccaluga (Argentina)

8.44 Arthroscopic treatment of femoro acetabular impingement: 6 to 8 years follow-up
D. Potestio, A. Bertino, N. Santori (Italy)

8.52 Clinical outcomes of hip arthroscopy with microfracture: a matched-pair controlled study with minimum 2-year follow-up
B. Domb, A. Gupta, J. Redmond, K. Dunne, C. Stake (USA)

10.20 Coffee break
10.35 ROOM 24-25
12.05 ORAL PRESENTATIONS
COMPLEX PRIMARY THA
Chairman: Arkan Sam Sayed-Noor (Sweden)

10.35 Total hip replacement in HIV-positive patients
S.M. Graham, J. Cruickshank, N. Lubega*, W.J. Harrison, N. Mkandawire*
(United Kingdom, *Malawi)

10.43 Bilateral total hip arthroplasty in patients with juvenile rheumatoid arthritis: safe and cost effective
S.J. Mortazavi (Iran)

10.51 Total hip arthroplasty after failure of dynamic hip screw fixation in intertrochanter fractures
D. Savadkoohi, B. Siavashi, M. Moosavi, A. Alirezaei (Iran)

10.59 Evaluation of the results of calcar replacement hip arthroplasty in treatment of failed or nonunited
S. Matthana, M. Nabil, M. Radwan (Egypt)

11.07 Total hip arthroplasty in patients less then 40 years old with avascular necrosis a concise 10 to 23-
year follow-up study
S. Ghijselings, P. Berger, J.-P. Simon (Belgium)

11.15 Acetabular reinforcement ring: only a revision implant? A minimum 20-year follow-up
P. Haefeli, M. Attinger, R. Flueckiger, F. Klenke, K. Siebenrock (Switzerland)

11.23 Total hip replacement in patients with femoral dysplasia using straight conical Wagner-type stems
K. Bargiotas, I. Antoniou, P. Kiorpelidis, M. Hantes, K. Malizos (Greece)

11.31 Is it necessary to do femoral osteotomy for total hip arthroplasty in dysplastic hip disorder crew
D. Savadkoohi, B. Siavashi, A. Aalirezaei, M. Moosavi (Iran)

11.39 Favorable results of primary total hip arthroplasty with acetabular impaction bone grafting for large
segmental bone defect of dysplastic hip
T. Iwase, T. Ito, D. Morita (Japan)

11.47 Cementless acetabular reconstruction in dysplastic hips: five-year results of total hip arthroplasty
using the 15 degrees face changing cup
M. Puthiya Veettil, A. Ward, E.J. Smith (United Kingdom)

11.55 Survivorship of total hip arthroplasty followed Schanz osteotomy in high-riding congenital hip
dislocation patients; long-term follow-up
V.E. Ozden, G. Dikmen, B. Beksaç, I.R. Tozun (Turkey)
11th Congress

8.20  ROOM 35-36
9.20  ORAL PRESENTATIONS

DUAL MOBILITY
Chairman: Jacques Tabutin (France)

8.20  Dual mobility socket in patients with increased risk of dislocation
A. Rossi, D. Munegato, G. Zatti (Italy)

8.28  Dual mobility cup is a reliable concept in preventing dislocation of THA
J. Milbrink, N. Hailer (Sweden)

8.36  Dual mobility cup in total hip revision surgery. A prospective study of 79 patients: dislocation risk
and cup fixation at 2 years follow up
J.L. Prudhon (France)

8.44  Dual versus mono-mobility cup for dislocation prevention following revision THA
A. Gonzalez, P. Bartolone, A. Lübbeke, R. Peter, P. Christofilopoulos, P. Hoffmeyer (Switzerland)

8.52  Does the dual-mobility hip prosthesis produce better joint mechanics during incline walking tasks?
M. Lamontagne, R. Little, P. Beaulé, S. Reynolds (Canada)

9.00  Low early complication rate with modern dual mobility hip prosthesis

9.08  Short term complications after revision hip arthroplasty with a modular dual mobility prosthesis
E. Schnaser, G. Westrich, M. Bostrom (USA)

10.20  Coffee break

10.35  ROOM 35-36
12.05  ORAL PRESENTATIONS

PARTICLES
Chairman: Evert J. Smith (United Kingdom)

10.35  The metal-on-metal hip replacement recall - Our experience with over 700 cases
N.L. Vasukutty, V. Rajput, A. Shaikh, C. Uzoigwe, M. Howes, H. Minhas (United Kingdom)

10.43  Cup impingement and wear damage with hip resurfacing is similar to that in retrieved total hip
arthroplasty

10.51  Metal ion levels and functional results following resurfacing hip arthroplasty versus conventional
hip arthroplasty; 5-year follow-up of a randomized controlled trial
J. Smolders, P. Bisseling, A. Hol, J. van Susante (The Netherlands)

10.59  Large variation in pseudotumor development after metal-on-metal hip resurfacing observed with
three sequential MARS-MRI’s
W. van der Weegen, J. Wullems, K. Brakel, P. Pilot, D. Das, R. Nelissen (The Netherlands)

11.07  Pseudotumors also a common finding after conventional ceramic-on-polyethylene total hip
arthroplasties (THA); an MRI screening in a randomised controlled trial of resurfacing and metal-on-
metal (28 mm) THA versus a matched-control group of ceramic-on-polyethylene THA
P. Bisseling, B. de Wit, M. van Gorp, W. Schreurs, J. van Susante (The Netherlands)

11.15  Repeated magnetic resonance imaging in patients with large-diameter metal-on-metal hip
replacement
A. Reito, P. Elo, T. Puolakka, J. Pajamäki, J. Nieminen, A. Eskelinen (Finland)
ORAL PRESENTATIONS
PARTICLES (cont.)

11.23 Are adverse reactions to metal debris more common after metal-on-metal total hip arthroplasty than in metal-on-metal hip resurfacing? Results from a large matched cohort screened with MRI
D. Das, J. Wullems, K. Brakel, P. Pilot, R. Nelissen, W. van der Weegen (The Netherlands)

11.31 Metal-on-metal disease course observed in 111 hip resurfacings using clinical outcomes, metal-ion levels and MRI at two time points
W. van der Weegen, K. Brakel, P. Pilot, H. Das, R. Nelissen (The Netherlands)

11.39 A randomised controlled trial comparing wear of oxidized zirconium and cobalt-chrome on standard and cross-linked polyethylene
Z. Morison, S. Patil*, H. Khan, E. Bogoch, E. Schemitsch, J. Waddell (Canada, *United Kingdom)

11.47 Systemic metal ion levels in patients with modular neck total hip arthroplasties: a prospective cohort study
J. Laurençon, G. Gkagkalis, M. Augsburger, H. Hassani, F. Becce, H.A. Rüdiger (Switzerland)

11.55 Influence of fluid-filled metal cups on a secure conical fixation in modular acetabular systems during hip surgery
T. Pandorf, H. Bertmaring (Germany)
11th Congress

8.30  ROOM A1
9.30 INSTRUCTIONAL LECTURE 15
BONE SUBSTITUTES AROUND THE HIP
Chairman: Berend Willem Schreurs (The Netherlands)

8.30  Introduction of the problem
Berend Willem Schreurs (The Netherlands)

8.35  Classical repair strategies for large clinical relevant bone defects
Pieter Buma (The Netherlands)

8.55  Bone substitutes in large bone defects around the hips
Didier Mainard (France)

9.15 Discussion

9.30  ROOM A1
11.00 SYMPOSIUM 7
UPDATE ON TREATMENT OF THE PAEDIATRIC AND DDH SEQUEL HIP
Chairmen: Kjeld Søballe (Denmark), Bjarne Møller-Madsen (Denmark)

9.30  Diagnosis of the hip in children
Lennart Nandin (Sweden)

9.42  Developmental dysplasia of the hip, DDH: treatment before and after walking age
Bjarne Møller-Madsen (Denmark)

9.54  Legg Calve Perthes disease
Lennart Nandin (Sweden)

10.06 Current management of SCFE
Lennart Nandin (Sweden)

10.18 Osteotomy in children (pelvis and femur)
Bjarne Møller-Madsen (Denmark)

10.30 Arthroscopy of the hip in children
Bjarne Møller-Madsen (Denmark)

10.42 Discussion

11.00 Coffee break

11.20 ROOM A1
12.50 SYMPOSIUM 2
QUESTIONS TO THE SCIENTISTS. NEW TECHNOLOGIES - WHAT IS THE TRUTH?
(EXCHANGEABLE NECKS, MIS, THR SHORT STEMS)
Chairman: Gerold Labek (Austria), Michael Morlock (Germany)

11.20 Exchangeable neck hip implants - The next big incident after MoMLDH
Gerold Labek (Austria)

11.35 Short stems - Short to mid term outcome in Central European Arthroplasty Registries
Simon Kovač (Slovenia)

11.50 What can engineers and retrieval analyses contribute to early prediction of failure and quality monitoring?
Michael Morlock (Germany)

12.05 Effect of the surgical approach on the outcome of THA - Is MIS worth to do? Austrian and global data overview
Patrick Sadoghi (Austria)

12.12 Effect of the surgical approach on the outcome of THA - Is MIS worth to do? Norwegian register data
Leif Ivar Havelin (Norway)

12.19 Lessons learned from the largest Registry worldwide, the NJR
Keith Tucker (United Kingdom)

12.34 Discussion

12.50  ROOM A1
13.30 AWARDS AND CLOSING CEREMONY
8.30 ROOM A2
INSTRUCTIONAL LECTURE 17
REVISION OF METAL ON METAL
Chairman: Evert J. Smith (United Kingdom)

8.30 Revision of mixed metal on metal large head total hip replacements: how should we deal with the bone and tissue loss
Jeremy Latham (United Kingdom)

8.45 Decision making in revision of large head metal-on-metal hip replacements
Cees C.P.M. Verheyen (The Netherlands)

9.00 Recommendations from the European Expert Panel of SCENHIR
Luigi Zagra (Italy)

9.15 Discussion

9.30 ROOM A2
11.00 ORAL PRESENTATIONS
THE 9 BEST ABSTRACTS
Chairmen: Johan Kärrholm (Sweden), Thomas Ilchmann (Switzerland)

9.30 Osteoclastogenesis-related cytokines in revision metal-on-metal total hip replacement; comparisons between patients with and without peri-prosthetic osteolysis
S. Eastwood, A. John, S. Jones, H. Hodgson, D. Mason, R. Waddington, X. Wei (United Kingdom)

9.38 Platelet-rich plasma is more effective for chronic severe greater trochanteric bursitis than cortisone
R. Monto (USA)

9.46 Radiographic and clinical risk factors for the extent of labral injury at the time of hip arthroscopy
J. Redmond, J. Hammarstedt, C. Stake, K. Dunne, B. Domb, S. Chandresekaran (USA)

9.54 Factors that influence taper corrosion: learning from a 18 year retrieval database
J. Cartner, P. Aldinger, C. Li, M. Fessenden (USA)

10.02 Oxinium bearing surface coupling in total hip arthroplasty. A 10 year prospective in vivo wear study
T. Karachalios, G. Karydakis (Greece)

10.10 The result of transmuscular versus transosseous repair of the posterior capsule on early dislocations in primary total hip arthroplasty
E. Spaans, J. van den Hout, S. Bolder (The Netherlands)

10.18 Presence of acetabular dysplasia increases risk for malpositioning of the acetabular component in primary hip arthroplasty
K. Gromov, M. Greene*, C. Barr*, J. Huddleston*, R. Emerson*, E. Garcia-Cimbrelo**, P. Gebuhr, H. Malchau*, A. Troelsen (Denmark, *USA, **Spain)

10.26 High proximal migration of the revised acetabular component predicts aseptic loosening, 352 acetabular revisions followed 2-20 years
T. Klerken, M. Mohaddes, J. Kärrholm (Sweden)

10.34 Skin staples versus subcuticular wound closure following primary hip arthroplasty: a prospective, randomized trial including 231 cases
M. Buttaro, M. Quinteros, G. Martorell, F. Comba, G. Zanotti, F. Piccaluga (Argentina)
### 11th Congress

**E-POSTERS**

<table>
<thead>
<tr>
<th>E-POSTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ARTHROSCOPY</strong></td>
</tr>
<tr>
<td><strong>P1</strong></td>
</tr>
<tr>
<td>D. Lindner, A. Gupta, J. Redmond, N. Finch, K. Dunne, B. Domb (USA)</td>
</tr>
<tr>
<td><strong>P2</strong></td>
</tr>
<tr>
<td>Y. El Bitar, A. Gupta, C. Stake, B. Domb, P. Lodhia, J. Redmond (USA)</td>
</tr>
<tr>
<td><strong>P3</strong></td>
</tr>
<tr>
<td>S. Hashimoto, T. Fujishiro, S. Hayashi, N. Kanzaki, M. Kurosaka (Japan)</td>
</tr>
<tr>
<td><strong>P4</strong></td>
</tr>
<tr>
<td>D. Munegato, D. Molisani, A. Rossi, M. Bigoni, G. Zatti (Italy)</td>
</tr>
<tr>
<td><strong>P5</strong></td>
</tr>
<tr>
<td>M. Röling, P. Pilot, R. Bloem (The Netherlands)</td>
</tr>
<tr>
<td><strong>P5 bis</strong></td>
</tr>
<tr>
<td>M. Ankin, T. Petryk, O. Golomovzyi (Ukraine)</td>
</tr>
<tr>
<td><strong>BASIC SCIENCE</strong></td>
</tr>
<tr>
<td><strong>P6</strong></td>
</tr>
<tr>
<td>J. Davis, A. Ahmed, D. Reed, K. Boddu, D. Srikantharaja, P. Li (United Kingdom)</td>
</tr>
<tr>
<td><strong>P7</strong></td>
</tr>
<tr>
<td><strong>P8</strong></td>
</tr>
<tr>
<td>A. Highcock, S. Graham (United Kingdom)</td>
</tr>
<tr>
<td><strong>P9</strong></td>
</tr>
<tr>
<td>K. Nakata, M. Kitada, K. Akiyama, H. Owaki, T. Fujii (Japan)</td>
</tr>
<tr>
<td><strong>P10</strong></td>
</tr>
<tr>
<td>T. Maluta, E. Luminari, G.M. Micheloni, C. Dall’Oca, B. Magnan (Italy)</td>
</tr>
<tr>
<td><strong>OTHERS</strong></td>
</tr>
<tr>
<td><strong>P11</strong></td>
</tr>
<tr>
<td>N. Restrepo Giraldo (Colombia)</td>
</tr>
<tr>
<td><strong>P12</strong></td>
</tr>
<tr>
<td>A. Scotto di Luzio (Italy)</td>
</tr>
<tr>
<td><strong>P13</strong></td>
</tr>
<tr>
<td><strong>P14</strong></td>
</tr>
<tr>
<td>R. Hart, M. Banas, P. Svab, V. Prochazka (Czech Republic)</td>
</tr>
<tr>
<td><strong>P15</strong></td>
</tr>
<tr>
<td>D. Nahlik, M. Banas, M. Komzak, R. Hart (Czech Republic)</td>
</tr>
<tr>
<td><strong>P16</strong></td>
</tr>
<tr>
<td>R. Mihalič, R. Trebše (Slovenia)</td>
</tr>
<tr>
<td><strong>P17</strong></td>
</tr>
<tr>
<td>C. Bocké, C. Thorstensson, G. Garellick, O. Rolfson (Sweden)</td>
</tr>
<tr>
<td><strong>P18</strong></td>
</tr>
<tr>
<td>M. Melato, F. Luceri, P. Sirtori, M. Agnoletto, C. Scotti, G. Fraschini, G.M. Peretti (Italy)</td>
</tr>
<tr>
<td><strong>PEDIATRICS</strong></td>
</tr>
<tr>
<td><strong>P19</strong></td>
</tr>
<tr>
<td>N. Segaren, H.B. Abdul-Jabar, A. Hashemi-Nejad (United Kingdom)</td>
</tr>
<tr>
<td><strong>P20</strong></td>
</tr>
<tr>
<td>V. Neverov, V. Baskov (Russia)</td>
</tr>
<tr>
<td><strong>P21</strong></td>
</tr>
<tr>
<td>S.N. Maripuri, M. Benjamin, J. Fernandes, S. Madan (United Kingdom)</td>
</tr>
</tbody>
</table>
E-POSTERS

PRIMARY CONSERVATIVE SURGERY

P22 Midterm results of treating femoral head osteonecrosis with auto-corticocancellous bone grafting
M. Vahid Farahmandi, M. Abbasi, M. Emami Moghaddam Tehran, F. Safdari (Iran)

P23 Use of collagen/thrombin hemostatic matrix in primary total hip replacement
L. Cannavò, L. Costarella, V. Pavone, A. Di Stefano, S. Gioiotta Iachino, F.R. Evola, G. Sessa (Catania)

P24 Clinical, radiological and laboratory follow-up at 9 years in patients with metal-on-metal hip replacement
S. Gioiotta Iachino, V. Pavone, G. Di Pasquale, M. Ferrante, M. Fiore, L. Cannavò, C. Iedda, L. Costarella, G. Sessa (Catania)

PRIMARY THA/RA

P25 Total hip arthroplasty with the articular surface replacement system - Experience from a District General Hospital
N.L. Vasukutty, S. Vinay, G. Chandan, L. Kaker, C. Uzoigwe, M. Howes, H. Minhas (United Kingdom)

P26 Twelve year survivorship of a modular total hip arthroplasty femoral stem
D. Fitch, K. Sedacki, B. Bordini* (USA, *Italy)

P27 A reproducible method to perform the real acetabulum in chronic high dislocated hips
N. Restrepo Giraldo (Colombia)

P28 Femoral distal osteotomy in chronic high dislocated hip arthroplasty. 15 years follow-up & results on this technique
N. Restrepo Giraldo (Colombia)

P29 The impact of age on health related quality of life after total hip replacement: decreasing gains in patients above 70 years of age
M. Gordon, M. Greene, P. Frumento, O. Rolfson, G. Garellick, A. Stark (Sweden)

P30 Anatomical reconstruction of posterior capsule and tendons in hip arthroplasty: clinical implications
W. Sioen, L. Labey, J.-P. Simon, A. Lenaert (Belgium)

P31 The learning curve associated with robotic-assisted total hip arthroplasty
P. Lodhia, J. Redmond, A. Gupta, J. Hammarstedt, A. Petarakos, B. Domb (USA)

P32 Wear rate analysis of cemented cross-linked polyethylene (Marathon) acetabular cups at five years
C. Peck, J. Hahnel, A. Redmond, T. Stewart, M. Stone (United Kingdom)

P33 Three-dimensional image analysis using a new concept for stabilizing femoral implants
H. Wada, H. Mishima, H. Sugaya, T. Nishino, Y. Yamazaki (Japan)

P34 Iliopsoas muscle necrosis caused by intrapelvic extension of an iliopsoas bursitis complicating femoral head necrosis: case report and review of the literature
C. Kurze, M. Keel, K. Siebenrock, M. Attinger (Switzerland)

P35 Risk factors for further instability after the first dislocation. A prospective cohort study on 70 dislocating hip arthroplasties
O. Wallner, A. Stark, O. Muren, T. Eisler, O. Sköldenberg (Sweden)

P36 A 5-year review of primary hip arthroplasty and their post-operative outcomes in an obese cohort
A. Hassan, M.A. Mussa, J. Rudd, S. West (United Kingdom)

P37 Clinical outcome after total hip arthroplasty with a short hip stem in obese patients
S. Mai, D. Bosson*, W. Heim, N. Helmy**, J. Pfeil, W. Siebert (Germany, *France, **Switzerland)

P38 The short stem THA provides promising results in patients with osteonecrosis of the femoral head
Y. Suksathien (Thailand)

P39 Radiographic alterations in short stem total hip replacement
W. Siebert, S. Mai, N. Helmy*, D. Bosson*, W. Heim, J. Pfeil (Germany, *Switzerland)

P40 Cementless total hip arthroplasty with a new tapered-wedge stem for developmental dysplasia of the hip
S. Kobayashi, H. Mishima, H. Wada, T. Yoshizawa, H. Sugaya, T. Nishino, Y. Yamazaki (Japan)

P41 Effect of stem design for post-operative radiological findings at a minimum follow-up of 7 years, composite beam vs. taper-slip
H. Fujita, T. Okumura, H. Harada, R. Nishimura, T. Tominaga, M. Akiyoshi (Japan)

P42 Effectiveness of the early rehabilitative protocol in total hip replacement: validated scale and outcomes for measure results
C. Trotti, M. Romei, F. Belardi, M. Brighi, M.R. Medina, A. Ciardiello, B. Inversini, G. Borgatta (The Netherlands)

P43 Initial stability of a new dual mobility cup model: comparison with European register findings
J. Caton, A. Ferreira (France)

P44 Clinical and radiological findings with a new short stem: the GTS™ experience at a minimum follow-up of 3 years
11th Congress

P45  Risk of infection in primary, elective total hip arthroplasty with a minimal invasive anterior approach. A prospective cohort study of 760 hips
T. Ilchmann, L. Bolliger, P. Graber, M. Clauss (Switzerland)

P46  Safety of tranexamic acid regarding the risk of deep venous thrombosis after total hip arthroplasty without routine chemical thrombo prophylaxis
S. Nishihiara, M. Hamada (Japan)

P47  A global approach to leg length measurement during total hip replacement in lateral decubitus
N. Santori, A. Bertino, D. Potestio (Italy)

P48  Influence of articular coupling on septic loosening of total hip arthroplasty
S. Falcioni, C. Ancarani, B. Bordini, M.S. Pichierrri, S. Stea (Italy)

P49  Six to nine years results of a short cemented femoral component
N. Santori, D. Potestio, A. Bertino, F.S. Santori (Italy)

P50  Femoral neck and bone preservation of a short total arthroplasty stem compared to two traditional stems
N. Stroud, J. Aldridge, S. Dunitz (USA)

P51  Long term result of cementless total hip arthroplasty in osteonecrosis
K.W. Cheung, K.Y. Chung, K.H. Chiu (Hong Kong)

P52  Survival of the Birmingham Hip Resurfacing in male patients aged 55 years or younger up to 13 years post-operatively
N. Frew, V. Allgar, V. Johnson (United Kingdom)

P53  Fast-track hip arthroplasty
A. Bartra, F. Angles, J. Salvador, M. Novellas, O. Gomez, M. Torra (Spain)

P54  Migration of a trial femoral head into the pelvis: a potential never event?
P. Rai, C. Butcher, R. Middleton (United Kingdom)

P55  A minimum 8-year follow-up of the Freeman Hip with Rotalok acetabular cup: survivorship, patterns of loosening and revision technique
V. Swaminathan, A.J. Highcock, S. Graham, N.W. Emms, B. Bolton-Maggs (United Kingdom)

P56  Total hip arthroplasty and rate of venous thromboembolism: an English experience
O. Shastri, J. Luscombe (United Kingdom)

P57  Blood loss following total hip arthroplasty did not differ with the use of three thromboprophylactic regimes: dabigatran, enoxaparin and rivaroxaban
M.K. Wasko, I. Pokrzywnicka-Gajek, K. Bobecka-Wesolowska, J. Kowalczewski (Poland)

P58  Comparison of the straight lateral approach with the anterior supine intermuscular approach for primary total hip arthroplasty in 337 patients
N. Mathijssen, Y. den Hartog, S. Vehmeijer (The Netherlands)

P59  Effect of leg length discrepancy and femoral-offset alteration after total hip arthroplasty. Preliminary results of a prospective cohort study
A. Sayed-Noor, S. Mahmood (Sweden)

P60  Primary collared uncemented total hip prosthesis in the elderly: a safe and effective treatment option
G. Schaller, J. Black, A. Asaad, S. Webb, N. Harper, S. Muirhead-Allwood (United Kingdom)

P61  Three-dimensional metaphyseal fit analysis of anatomic stems

P62  Short-term result of J-taper stem THA and its initial fixation style
A. Tokushige (Japan)

P63  Safety and efficacy of intravenous administration of tranexamic acid in control of bleeding following primary hip arthroplasty
Z. Dahabreh, M. Panteli, F. Howell (United Kingdom)

P64  Direct anterior approach in total hip replacement: complications and early results in a series of 166 cases
L. Rizzi, C. Castelli (Italy)

P65  Results of total hip arthroplasty with a ceramic on ceramic bearings in patients Crowe type IV developmental dysplasia of hip: a minimum 5 year follow-up
G. Dikmen, V.E. Ozden, B. Bekasac, I.R. Tozun (Turkey)

P66  Short metaphyseal hip stem: preliminary results
A. Brivio, F.R. Ravasi, P. Esopi (Italy)

P67  Total hip arthroplasty in patients with avascular necrosis of the femoral head: short term results
S.J. Mortazavi, D. Shakoor, S. Marzban (Iran)

P68  Total hip arthroplasty in young patients: early results are better
S.J. Mortazavi, D. Shakoor (Iran)
P69 Hip arthroplasty with the Primoris® stem - Bone remodelling around a short femoral neck stem
J.D. Christiansen, M.B. Laursen, G. Blunn*, P.T. Nielsen (Denmark, *United Kingdom)

P70 Safety of Vitamin E infused high wall liners for routine use in primary THA: single center, short term follow-up of 770 cases
A. Troelsen, N. Sillese, C. Barr, H. Malchau, H. Husted, P. Gebuhr (Denmark)

P71 Does topical tranexamic acid reduce blood loss and transfusion rate following total hip arthroplasty of osteonecrosis of femoral head patients?
J. Sueajui (Thailand)

P72 Radiographic changes associated with failed metal-on-metal total hip arthroplasty
S.A. Jones, A. John, A. Dramis (United Kingdom)

P73 Repeated metal ion measurements in patients with high risk metal-on-metal hip replacement
A. Reito, T. Moilanen, T. Puolakkia, J. Pajamäki, A. Eskelinen (Finland)

P74 High hip center in total hip arthroplasty for dysplastic hips, a comparison study
D. Savadkoohi, B. Siavashi, H. Roshandel, A. Alirezaei, M. Moosavi (Iran)

P75 Anterior versus posterior approach for total hip replacement. A functional comparison at 5 years follow-up
S. Farah, L. Kohan, C. Field, D. Nguyen, D. Kerr (Australia)

P76 Does topical tranexamic acid reduce blood loss and transfusion rate following total hip arthroplasty of osteonecrosis of femoral head patients?
J. Sueajui (Thailand)

P72 Radiographic changes associated with failed metal-on-metal total hip arthroplasty
S.A. Jones, A. John, A. Dramis (United Kingdom)

P73 Repeated metal ion measurements in patients with high risk metal-on-metal hip replacement
A. Reito, T. Moilanen, T. Puolakkia, J. Pajamäki, A. Eskelinen (Finland)

P74 High hip center in total hip arthroplasty for dysplastic hips, a comparison study
D. Savadkoohi, B. Siavashi, H. Roshandel, A. Alirezaei, M. Moosavi (Iran)

P75 Anterior versus posterior approach for total hip replacement. A functional comparison at 5 years follow-up
S. Farah, L. Kohan, C. Field, D. Nguyen, D. Kerr (Australia)

P76 Short stem versus ordinary cementless total hip replacement in young patients with osteoarthritic hips
M. Marei, A. Ebied (Egypt)

P77 Effect of stem geometry on radiological changes of two types of the cemented Müller type straight stems
L. Bolliger, T. Ichmann, S. Gersbach, P.E. Ochsner, M. Clauss (Switzerland)

P78 Metaphyseal short stem in total hip arthroplasty
J. Canosa, J. Morales (Spain)

P79 Preoperative templating in total hip arthroplasty – Why is so important?
T. Aguiar, S. Gonçalves, P. Dantas, L. Amaral (Portugal)

P80 Hip precautions following total hip replacement are not always necessary
B. Bender, R. Yaron, A. Michalache, I. Rosenberg, C. Schneider (Israel)

P81 Reconstruction of femoro-acetabular offset using a short-stem
K.P. Kutzner, M.P. Kovacevic, P. Rehbein, J. Pfeil (Germany)

P82 Muscle sparing MIS-THA. MRI analyses of hip muscles after THA
H. Kitahara, N. Yuasa, T. Okabe (Japan)

P83 Modes of femoral bone remodelling in stable and loose cemented Muller THA stems
J. Stucinskas, M. Clauss, S. Tarasevicius*, H. Wingstrand**, T. Ichmann (Switzerland, *Lithuania, **Sweden)

P84 The use of the Exeter Universal cemented stem in a District General Hospital: 17 to 22 year results
J. Stevenson, C. Heaver, T. Knight, A. Carrothers, J. Lim, R. Perkins (United Kingdom)

P85 Usefulness of the CT-based fluoroscopy matching navigation system for THA. Comparison two different terms
Y. Yabuki, S. Yanagimoto, M. Tezuka, M. Kameyama, S. Nakayama, T. Komiyama, E. Okada, H. Izumida (Japan)

P86 3D printed instruments and acetabular augments in highly dysplastic hips
K. Govaers, M. Van Den Broek, L. Govaers (Belgium)

P87 Preliminary results of a new press-fit hip stem
A. Lilikakis, L. Kritharis, E. Michelinakis (Greece)

P88 SAPHO syndrome and secondary hip osteoarthritis. Case Report

P89 The innominate tubercle and superimposition of the rasp - An accurate guide for the femoral neck cut during the direct anterior approach
R. Williams, M. Maheson, M. Goodson (United Kingdom)

P90 Cemented primary hip arthroplasty in the under 55s: minimum 10 year follow-up with radiographic and prom score assessment
S. Gill, M. Reidy, J. Macleod, D. Finlayson (United Kingdom)

REVISION

P91 One-component revision total hip arthroplasty for instability using a dual mobility acetabular cup
R. Mohammed, K. Hayward, S. Mulay, F. Bindi, M. Wallace (United Kingdom)

P92 Two year results of a modular trabecular metal cup in management of complex acetabular reconstruction in both primary and revision surgery from a single centre in the United Kingdom
M.A. Mussa, S. West (United Kingdom)
**Five to eight year mid-term results with trabecular metal in hip revision**
S. Oehme (Germany)

**A fluxogram to treat a severe intra-pelvic acetabular migration following total hip replacement surgery**
J.R.N. Vicente, L. Enisman, R.R. Lipai, L. Fagotti, M.C. Leonhardt, A.T. Croci (Brazil)

**The effect of a locally administered bisphosphonate in hip stem revisions using the bone impaction grafting technique**
O. Belfrage, M. Tagil, M. Sundberg, U. Kesteris, G. Flivilk (Sweden)

**The use of trabecular titanium cups in severe bone defects hip revision surgery**
F. De Meo, V. Bellotti*, E. Astarita*, C. Cardenas Nylander*, M. Ribas Fernandez*, P. Cavaliere (Italy, *Spain)

**Midterm survival analysis of a cemented double mobility cup in combination with bone impaction grafting in revision hip arthroplasty**
E.A. Spaans, R. Wagenmakers, J.A.A.M. van den Hout, S.B.T. Bolder (The Netherlands)

**Revision arthroplasty for periprosthetic femoral fracture with an uncemented, modular, conical stem**
R. da Assuncao, T. Pollard, A. Hrycaiczuk, J. Curry, S. Glyn-Jones, A. Taylor (United Kingdom)

**Femoral revision with cementless distal fixation of the stem. Mid-term results**
P. Kinov, B. Antonov, P.P. Tanchey, L. Tzvetanov (Bulgaria)

**The cup-cage construct for massive acetabular defects in revision hip arthroplasty - Midterm results in a case series**
D. Arvinte, N. Jahangir, M. Sood (United Kingdom)

**Subsidence of the Revitan "straight" press-fit hip revision stem**
L. Rietbergen, A.M.J.S. Vervest, J. van Oldenrijk (The Netherlands)

**Methods of cement extraction in first time replacement THA. Cemover vs transfemoral osteotomy**
G. Cortes, J. Moranas, J. Cabo, S. Pedrero, F. Portabella (Spain)

**Replacement of acetabular deficiency by Burch-Schneider cage for revision total hip arthroplasty in rheumatoid arthritis, a minimum 5 years follow up**
D. Savadkoohi, B. Siavashi, A. Karimnia, A. Alirezaei, M. Moosavi (Iran)

**Nonbiological revision hip arthroplasty using Muller’s reconstruction ring. Is it a durable solution for management of segmental acetabular defects?**

**Patient matched implant (PMI) in reconstruction of severe acetabular bone loss and pelvic discontinuity after total hip arthroplasty**
A.M. Stausholm, P.T. Nielsen, J. Stürup (Denmark)

**Vascular injury prevention in hip revision using the arteriography in acetabular defects Praposky type III**
O. Salgado, J. Morales (Spain)

**Patient outcomes following the use of trabecular metal shells in hip revision surgery with acetabular bone loss**
K.T.M. Seah, M. Brooks (United Kingdom)

**Massive acetabular allograft transplantation in severe bone defect hip revision: a 22 years of experience**
M. Ribas Fernandez, F. De Meo*, V. Bellotti, E. Astarita, C. Cardenas Nylander, P. Cavaliere* (Spain, *Italy)

**Femoral stem fracture as a cause of failure in total hip arthroplasty**
X. Lizano Diez, M. Cruz Sánchez, D. Pérez Prieto, F.A. Mingo Fernández, C. Mestre Cortadellas, A. León García, F. Marqués López, J.C. Monllau García (Spain)

**Revision surgery in infected total hip arthroplasties: two stages**
R. Cabral, J. Cabral, A. Figueiredo, A. Garruço (Portugal)

**Hip abductor reconstruction: clinical results of vastus lateralis transfer**
S. Dalgleish, B. Clift, S. Hussain (United Kingdom)
P117 Medium term outcomes of metal-on-metal hybrid total hip replacement: Birmingham Hip resurfacing Cup with XL head on Freeman uncemented femoral stem
D. Satish, S. Odak, D. Shivratre, C. Armstrong, B. Kapoor, V. Peter (United Kingdom)

P118 Medium term outcome of acetabular reconstruction with steel mesh and bone graft
M. Reidy, H. Rehman, D. Finlayson (United Kingdom)

P119 Change of infection - and dislocation - rate in revision hip arthroplasty after multiple revisions
M. Müller, O. Dobrindt, L. Schmelzer, C. Perka (Germany)

TRAUMA

P120 Pain is a predictor for depression and worse outcomes after hip fracture
D. Pérez-Prieto, G. Pidemunt, F. Marqués, A. Leon, C. Mestre, L. Puig-Verdié (Spain)

P121 A biomechanical comparison of cannulated screws & the dynamic hip screw in fixation of undisplaced intracapsular neck of femur fractures
H. Divecha, B. Charalambous, S. Evans (United Kingdom)

P122 Retrograde intramedullary nailing for femoral shaft fractures in elderly patients with previous ipsilateral dynamic hip screw fixation: a prospective study
H.E. Matar, K. Iyengar, J. Nadkarni (United Kingdom)

P123 Predictive factors of hip fracture related in-hospital mortality
M. Athar, P. O’Loughlin, A. Mitra, J. Harty (Ireland)

P124 Femoral periprosthetic fracture in total hip arthroplasty
A. Sarmento, T. Torres, A. Costa, D. Santos, D. Sá (Portugal)

P125 Influence of patient factors and time to surgery on the length of hospital stay in hip fracture patients
N. Kharwadkar, N. Segaren, M. Vindlacheruvu, A. Norrish, V. Khanduja, V. Chavda (United Kingdom)

P126 Approaches to hip hemi-arthroplasty for femoral neck fractures had an influence on operating time and operation-procedure: a prospective observational cohort study
K. Kamo (Japan)

P127 Megaprosthesis: the bridge between orthopaedics and trauma
G.M. Calori, E. Mazza, S. Mazzola, M. Colombo, E. Malagoli (Milano)

P128 The markers of bone metabolism and the estradiol level in female patients with femoral neck fractures
O. Ignatenko, N. Batpenov, E. Borodtskaya, A. Chernyshova, E. Scherbakova (Kazakhstan)

P129 Locking plate fixation of periprosthetic fractures of the proximal femur around a stable stem: biomechanical analysis of fixation methods

P130 Clinical results and surgical management of five rare cases of irreducible posterior hip dislocation with femoral head fracture
K. Gharanizadeh (Iran)

P131 Early experience of NCB (non-contact bridging) periprosthetic plate in complex periprosthetic fractures of total hip replacement (THR) and total knee replacement (TKR)
A. Ng, A. Ghatahora, A. Shetty (United Kingdom)

P132 Comparison of second and third generation of intramedullary implants in the treatment of trochanteric fracture: screw versus helical blade
M. Kumbaraci, L. Karapinar, A. Turgut (Turkey)

P133 Total hip arthroplasty after failure of acetabular fracture fixation
N. Prevezas, D. Louverdis, G. Antypas, A. Konstas, D. Samaras, N. Liarakos, N. Karampolas, C. Patrikareas (Greece)

P134 Management of adductor longus ruptures in elite athletes - A review
D. Banks (United Kingdom)

P135 Early experience of NCB (non-contact bridging) periprosthetic plate in complex periprosthetic fractures of total hip replacement (THR) and total knee replacement (TKR)
A. Ng, A. Ghatahora, A. Shetty (United Kingdom)

P136 Comparison of second and third generation of intramedullary implants in the treatment of trochanteric fracture: screw versus helical blade
M. Kumbaraci, L. Karapinar, A. Turgut (Turkey)

P137 Total hip arthroplasty after failure of acetabular fracture fixation
N. Prevezas, D. Louverdis, G. Antypas, A. Konstas, D. Samaras, N. Liarakos, N. Karampolas, C. Patrikareas (Greece)

P138 Management of adductor longus ruptures in elite athletes - A review
D. Banks (United Kingdom)

P139 Results and complication rates of new design anti-rotation dynamic hip screw
C.C. Avci, N. Saglam, T. Kurtulmus (Turkey)

P140 Surgical treatment of intertrochanteric hip fractures with associated femoral neck fractures using a cephalomedullary nail
S. Chalikias, M. Michalos, G. Kandarakis, C. Kokoroghiannis, G. Koundis, D. Evangelopoulos (Greece)
11th Congress

P141 Pre-operative haemoglobin changes in patients with hip fracture
A. Ahmad, A. Abdul-Hamid, S. Palmer, R. da Assunção (United Kingdom)

P142 Subtrochanteric femoral fractures treated with intramedullary fixation: our institutional experience
M. Panteli, J. Lamb, P. Giannoudis (United Kingdom)

P143 Early complications following bipolar hemiarthroplasty for femoral neck fracture in elderly patients
S.J. Mortazavi, S. Saberi, A. Arabzadeh (Iran)

P144 Favorable results of minimally invasive plate osteosynthesis for Vancouver type B1 periprosthetic fractures
F. Piccaluga, F. Comba, O. Ignacio, A. Julian, G. Zanotti, M. Buttaro (Argentina)

P145 A new divergent locked screws system for treatment of pertrochanteric fractures
A. Palombi (Italy)

P146 Improving the achievement of best practice tariff for fractured neck of femur patients admitted to a Teaching Hospital Orthopaedic Department - Our experience
S. Bleibleh, G. Hannant, S. Fogerty (United Kingdom)

P147 Titanium Compression Cerclage and Stabilisers of Gundolf (CCG-System) in the management of periprosthetic femoral fractures of the elderly
G. Korn, U. Dorn, T. Hofstaedter (Austria)

P148 Neck of femur patients cost less if managed nicely: a dedicated surgical team is the way forward
C. Handford, V. Dewan, R. Sahemey, A. Mujeeb (United Kingdom)

TRIBOLOGY / MATERIALS

P149 Roughness and mechanical properties of silicon nitride coatings - An alternative for joint replacements
C. Skjöldebrand, M. Pettersson, S. Schmidt, H. Högberg, H. Engqvist, C. Persson (Sweden)

P150 Experimental study in vivo of a new porous cement: research line
C. Dall’Oca, T. Maluta, G.M. Micheloni, B. Magnan (Italy)

P151 Cobalt and chromium ions in MoM arthroplasty patients. What are the levels, and where are they distributed?
L. Kohan, S. Farah, C. Field, D. Nguyen, D. Kerr, R. McQuilty, T. Rai (Australia)

P152 Second generation annealed highly crosslinked polyethylene: 5-7 year linear wear
J. D’Antonio, R. Ramakrishnan (USA)

P153 Highly cross-linked polyethylene in the Swedish Hip Arthroplasty Register - A design-specific comparison
P.-E. Johanson, G. Garellick, J. Kärrholm (Sweden)

TUMOURS

P154 Hip replacement vs Internal fixation in pathological fractures of the proximal femur
N. Tzachev, N. Ivanov, I. Gerov, A. Iotov (Bulgaria)

P155 Trans-foveal curettage of a giant cell tumor of the femoral head - A new surgical technique
H.A. Rüdiger, S. Cherix, G. Gkagkalis, K. Piasecki (Switzerland)

P156 Treatment of fibrous dysplasia involving the proximal femur with reconstruction nail and bone grafting
D. Savadkoohi, S. Javidmehr, B. Siavashi, A. Alirezai, M. Moosavi (Iran)
<table>
<thead>
<tr>
<th>Name</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aalirezaei A.</td>
<td>27</td>
</tr>
<tr>
<td>Aamodt A.</td>
<td>15</td>
</tr>
<tr>
<td>Abbasian M.</td>
<td>33</td>
</tr>
<tr>
<td>Abdel Karim M.M.</td>
<td>14, 36</td>
</tr>
<tr>
<td>Abdelnasser M.K.</td>
<td>13</td>
</tr>
<tr>
<td>Abdul-Hamid A.</td>
<td>38</td>
</tr>
<tr>
<td>Abdul-Jabar H.B.</td>
<td>32</td>
</tr>
<tr>
<td>Abdulkarim A.</td>
<td>8, 24</td>
</tr>
<tr>
<td>Abe T.</td>
<td>24</td>
</tr>
<tr>
<td>Abouel-Enin S.</td>
<td>14</td>
</tr>
<tr>
<td>Achan P.</td>
<td>17</td>
</tr>
<tr>
<td>Agnoletto M.</td>
<td>32</td>
</tr>
<tr>
<td>Aguiar T.</td>
<td>35</td>
</tr>
<tr>
<td>Agus H.</td>
<td>17</td>
</tr>
<tr>
<td>Ahl T.</td>
<td>23</td>
</tr>
<tr>
<td>Ahmad A.</td>
<td>38</td>
</tr>
<tr>
<td>Ahmadi M.</td>
<td>11</td>
</tr>
<tr>
<td>Ahmed A.</td>
<td>32</td>
</tr>
<tr>
<td>Akiun D.</td>
<td>16</td>
</tr>
<tr>
<td>Akiyama K.</td>
<td>32</td>
</tr>
<tr>
<td>Akiyoshi M.</td>
<td>33</td>
</tr>
<tr>
<td>Akrawi H.</td>
<td>7, 36</td>
</tr>
<tr>
<td>Al Rakaiby M.A.H.</td>
<td>14, 36</td>
</tr>
<tr>
<td>Al-Hadad I.</td>
<td>15</td>
</tr>
<tr>
<td>Al-Shanti N.</td>
<td>16</td>
</tr>
<tr>
<td>Alazzani W.</td>
<td>13</td>
</tr>
<tr>
<td>Aldinger P.</td>
<td>31</td>
</tr>
<tr>
<td>Aldridge J.</td>
<td>34</td>
</tr>
<tr>
<td>Ali E.I.</td>
<td>14, 36</td>
</tr>
<tr>
<td>Alirezaei A.</td>
<td>6, 16, 27, 35, 36, 38</td>
</tr>
<tr>
<td>Allgar V.</td>
<td>34</td>
</tr>
<tr>
<td>Amaran L.</td>
<td>35</td>
</tr>
<tr>
<td>Amis A.</td>
<td>16</td>
</tr>
<tr>
<td>Ancarani C.</td>
<td>34</td>
</tr>
<tr>
<td>Andreoli E.</td>
<td>6</td>
</tr>
<tr>
<td>André S.</td>
<td>24</td>
</tr>
<tr>
<td>Andrés I.</td>
<td>24</td>
</tr>
<tr>
<td>Andrés J.A.</td>
<td>24</td>
</tr>
<tr>
<td>Andrew J.</td>
<td>16</td>
</tr>
<tr>
<td>Angles F.</td>
<td>34</td>
</tr>
<tr>
<td>Ankin M.</td>
<td>32</td>
</tr>
<tr>
<td>Antolic V.</td>
<td>11</td>
</tr>
<tr>
<td>Antoniou I.</td>
<td>17</td>
</tr>
<tr>
<td>Antonov B.</td>
<td>36</td>
</tr>
<tr>
<td>Antonucci I.</td>
<td>32</td>
</tr>
<tr>
<td>Antypas G.</td>
<td>37</td>
</tr>
<tr>
<td>Arabzadeh A.</td>
<td>38</td>
</tr>
<tr>
<td>Armstrong C.</td>
<td>37</td>
</tr>
<tr>
<td>Arthur M.</td>
<td>6</td>
</tr>
<tr>
<td>Arvinte D.</td>
<td>6, 7, 18, 36</td>
</tr>
<tr>
<td>Asaad A.</td>
<td>34</td>
</tr>
<tr>
<td>Asencio G.</td>
<td>34</td>
</tr>
<tr>
<td>Astarita E.</td>
<td>20, 36</td>
</tr>
<tr>
<td>Astore F.</td>
<td>33</td>
</tr>
<tr>
<td>Athar M.</td>
<td>37</td>
</tr>
<tr>
<td>Atilla B.</td>
<td>15, 25</td>
</tr>
<tr>
<td>Attinger M.</td>
<td>10, 27, 33</td>
</tr>
<tr>
<td>Augsburger M.</td>
<td>29</td>
</tr>
<tr>
<td>Aulakh T.</td>
<td>18</td>
</tr>
<tr>
<td>Avci C.C.</td>
<td>37</td>
</tr>
<tr>
<td>Azab M.</td>
<td>14, 36</td>
</tr>
<tr>
<td>Babis G.</td>
<td>20</td>
</tr>
<tr>
<td>Badras L.S.</td>
<td>18</td>
</tr>
<tr>
<td>Baea S.</td>
<td>10</td>
</tr>
<tr>
<td>Bagga T.</td>
<td>18</td>
</tr>
<tr>
<td>Balasubramanian S.</td>
<td>18</td>
</tr>
<tr>
<td>Ballester J.J.</td>
<td>24</td>
</tr>
<tr>
<td>Banas M.</td>
<td>32</td>
</tr>
<tr>
<td>Bankes M.</td>
<td>7</td>
</tr>
<tr>
<td>Banks D.</td>
<td>37</td>
</tr>
<tr>
<td>Barclay J.</td>
<td>18</td>
</tr>
<tr>
<td>Bargiotas K.</td>
<td>27</td>
</tr>
<tr>
<td>Barr C.</td>
<td>31, 35</td>
</tr>
<tr>
<td>Bartolone P.</td>
<td>28</td>
</tr>
<tr>
<td>Bartra A.</td>
<td>34</td>
</tr>
<tr>
<td>Baskaran D.</td>
<td>18</td>
</tr>
<tr>
<td>Baskov V.</td>
<td>14, 32</td>
</tr>
<tr>
<td>Batpenov N.</td>
<td>37</td>
</tr>
<tr>
<td>Beaulé P.</td>
<td>18, 28</td>
</tr>
<tr>
<td>Becce F.</td>
<td>29</td>
</tr>
<tr>
<td>Beck J.</td>
<td>11</td>
</tr>
<tr>
<td>Beksa B.</td>
<td>15, 27, 34</td>
</tr>
<tr>
<td>Belardi F.</td>
<td>33</td>
</tr>
<tr>
<td>Belfrage O.</td>
<td>36</td>
</tr>
<tr>
<td>Bellotti V.</td>
<td>20, 36</td>
</tr>
<tr>
<td>Belluati A.</td>
<td>6, 32</td>
</tr>
<tr>
<td>Benazzo F.</td>
<td>13, 20, 25</td>
</tr>
<tr>
<td>Bender B.</td>
<td>35</td>
</tr>
<tr>
<td>Benjamin M.</td>
<td>32</td>
</tr>
<tr>
<td>Berger P.</td>
<td>27</td>
</tr>
<tr>
<td>Berghold A.</td>
<td>8</td>
</tr>
<tr>
<td>Berndt K.</td>
<td>12, 16</td>
</tr>
<tr>
<td>Bertino A.</td>
<td>26, 34</td>
</tr>
<tr>
<td>Bertmaring H.</td>
<td>29</td>
</tr>
<tr>
<td>Bhowmik-Stoker M.</td>
<td>28</td>
</tr>
<tr>
<td>Bigoni M.</td>
<td>32</td>
</tr>
<tr>
<td>Bindi F.</td>
<td>35</td>
</tr>
<tr>
<td>Bisseling P.</td>
<td>28</td>
</tr>
<tr>
<td>Bistolof A.</td>
<td>8</td>
</tr>
<tr>
<td>Bjørgen S.</td>
<td>19</td>
</tr>
<tr>
<td>Black J.</td>
<td>34</td>
</tr>
<tr>
<td>Blakey C.</td>
<td>14</td>
</tr>
<tr>
<td>Bleible S.</td>
<td>38</td>
</tr>
<tr>
<td>Blickman T.</td>
<td>18</td>
</tr>
<tr>
<td>Bloem R.</td>
<td>32</td>
</tr>
<tr>
<td>Blunn G.</td>
<td>11, 35</td>
</tr>
<tr>
<td>Bobecka-Wesolowska K.</td>
<td>34</td>
</tr>
<tr>
<td>Bocké C.</td>
<td>32</td>
</tr>
<tr>
<td>Boddu K.</td>
<td>32</td>
</tr>
<tr>
<td>Boden H.</td>
<td>8, 23</td>
</tr>
<tr>
<td>Bogoch E.</td>
<td>29</td>
</tr>
<tr>
<td>Bohatyrewicz A.</td>
<td>19</td>
</tr>
<tr>
<td>Böhler N.</td>
<td>8</td>
</tr>
<tr>
<td>Bolder S.</td>
<td>31</td>
</tr>
<tr>
<td>Bolder S.B.T.</td>
<td>36</td>
</tr>
<tr>
<td>Bolliger L.</td>
<td>34, 35</td>
</tr>
<tr>
<td>Bolton-Maggs B.</td>
<td>34</td>
</tr>
<tr>
<td>Bom L.P.A.</td>
<td>14</td>
</tr>
<tr>
<td>Bom P.A.</td>
<td>19</td>
</tr>
<tr>
<td>Boksenko S.</td>
<td>13</td>
</tr>
<tr>
<td>Bonefeld C.M.</td>
<td>32</td>
</tr>
<tr>
<td>Borgia G.</td>
<td>33</td>
</tr>
<tr>
<td>Bori G.</td>
<td>8</td>
</tr>
<tr>
<td>Bosson D.</td>
<td>33</td>
</tr>
<tr>
<td>Bostrom M.</td>
<td>28</td>
</tr>
<tr>
<td>Bowsher J.G.</td>
<td>15, 16, 28</td>
</tr>
<tr>
<td>Boyer B.</td>
<td>15</td>
</tr>
<tr>
<td>Brakel K.</td>
<td>10, 28, 29</td>
</tr>
<tr>
<td>Bricman I.</td>
<td>12</td>
</tr>
<tr>
<td>Bridgens A.</td>
<td>8</td>
</tr>
<tr>
<td>Brighi M.</td>
<td>33</td>
</tr>
<tr>
<td>Brivio A.</td>
<td>34</td>
</tr>
<tr>
<td>Brodén C.</td>
<td>8</td>
</tr>
<tr>
<td>Brooks M.</td>
<td>36</td>
</tr>
<tr>
<td>Brown C.</td>
<td>18</td>
</tr>
<tr>
<td>Bruce A.</td>
<td>7</td>
</tr>
<tr>
<td>Brumat P.</td>
<td>11</td>
</tr>
<tr>
<td>Brun F.</td>
<td>24</td>
</tr>
<tr>
<td>Brunnekreef J.</td>
<td>19</td>
</tr>
<tr>
<td>Budde S.</td>
<td>11</td>
</tr>
<tr>
<td>Bulstra S.K.</td>
<td>18</td>
</tr>
<tr>
<td>Buma P.</td>
<td>30</td>
</tr>
<tr>
<td>Burelli S.</td>
<td>8</td>
</tr>
<tr>
<td>Burklinshaw I.</td>
<td>18</td>
</tr>
<tr>
<td>Butcher C.</td>
<td>34</td>
</tr>
<tr>
<td>Buttaro M.</td>
<td>31</td>
</tr>
<tr>
<td>Cabo J.</td>
<td>36</td>
</tr>
<tr>
<td>Cabral J.</td>
<td>17, 36</td>
</tr>
<tr>
<td>Cabral R.</td>
<td>17, 36</td>
</tr>
<tr>
<td>Cachero N.</td>
<td>24</td>
</tr>
<tr>
<td>Caldarela E.</td>
<td>6</td>
</tr>
<tr>
<td>Calori G.M.</td>
<td>6, 37</td>
</tr>
<tr>
<td>Cannataro G.</td>
<td>6</td>
</tr>
<tr>
<td>Cannavò L.</td>
<td>33</td>
</tr>
<tr>
<td>Canosa J.</td>
<td>35</td>
</tr>
<tr>
<td>Name</td>
<td>Page(s)</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Carbonell Escobar R.</td>
<td>17</td>
</tr>
<tr>
<td>Cardenas Nylander C.</td>
<td>20, 36</td>
</tr>
<tr>
<td>Carlí G.</td>
<td>8</td>
</tr>
<tr>
<td>Carrothers A.</td>
<td>35</td>
</tr>
<tr>
<td>Cartner J.</td>
<td>31</td>
</tr>
<tr>
<td>Casanova P.</td>
<td>24</td>
</tr>
<tr>
<td>Castelli C.</td>
<td>34</td>
</tr>
<tr>
<td>Castoldi F.</td>
<td>8</td>
</tr>
<tr>
<td>Caton J.</td>
<td>33</td>
</tr>
<tr>
<td>Caton J.H.</td>
<td>8</td>
</tr>
<tr>
<td>Causero A.</td>
<td>8</td>
</tr>
<tr>
<td>Cavaliere P.</td>
<td>20, 36</td>
</tr>
<tr>
<td>Cefalì M.</td>
<td>13</td>
</tr>
<tr>
<td>Centurione L.</td>
<td>32</td>
</tr>
<tr>
<td>Centurione M.A.</td>
<td>32</td>
</tr>
<tr>
<td>Chaboche P.</td>
<td>15</td>
</tr>
<tr>
<td>Chalikias S.</td>
<td>37</td>
</tr>
<tr>
<td>Chammout G.</td>
<td>23</td>
</tr>
<tr>
<td>Chandan G.</td>
<td>33</td>
</tr>
<tr>
<td>Chandresekaran S.</td>
<td>31</td>
</tr>
<tr>
<td>Charalambous B.</td>
<td>37</td>
</tr>
<tr>
<td>Chavda V.</td>
<td>37</td>
</tr>
<tr>
<td>Cherix S.</td>
<td>38</td>
</tr>
<tr>
<td>Cherneyshova A.</td>
<td>37</td>
</tr>
<tr>
<td>Cheung K.W.</td>
<td>34</td>
</tr>
<tr>
<td>Chinzei N.</td>
<td>26</td>
</tr>
<tr>
<td>Chiu K.H.</td>
<td>34</td>
</tr>
<tr>
<td>Chokotho L.</td>
<td>14</td>
</tr>
<tr>
<td>Choo S.K.</td>
<td>17</td>
</tr>
<tr>
<td>Christiansen J.D.</td>
<td>11, 35</td>
</tr>
<tr>
<td>Christofiliopoulos P.</td>
<td>12, 28</td>
</tr>
<tr>
<td>Chung K.Y.</td>
<td>34</td>
</tr>
<tr>
<td>Ciardiello A.</td>
<td>33</td>
</tr>
<tr>
<td>Cifaratti A.</td>
<td>6</td>
</tr>
<tr>
<td>Clarke I.</td>
<td>28</td>
</tr>
<tr>
<td>Clarke I.C.</td>
<td>15, 16</td>
</tr>
<tr>
<td>Clatworthy E.</td>
<td>13, 16</td>
</tr>
<tr>
<td>Clauss M.</td>
<td>23, 34, 35, 36</td>
</tr>
<tr>
<td>Clift B.</td>
<td>18, 36</td>
</tr>
<tr>
<td>Coats T.</td>
<td>18</td>
</tr>
<tr>
<td>Cobb J.</td>
<td>16</td>
</tr>
<tr>
<td>Coffey P.</td>
<td>24</td>
</tr>
<tr>
<td>Colombo M.</td>
<td>6, 37</td>
</tr>
<tr>
<td>Comba F.</td>
<td>26, 31, 38</td>
</tr>
<tr>
<td>Conroy J.</td>
<td>11</td>
</tr>
<tr>
<td>Conway L.C.</td>
<td>19</td>
</tr>
<tr>
<td>Cooper A.</td>
<td>7</td>
</tr>
<tr>
<td>Corbett J.</td>
<td>19</td>
</tr>
<tr>
<td>Cordero-Ampuero J.</td>
<td>7, 20, 22</td>
</tr>
<tr>
<td>Cortes G.</td>
<td>36</td>
</tr>
<tr>
<td>Costa A.</td>
<td>37</td>
</tr>
<tr>
<td>Costa L.</td>
<td>23</td>
</tr>
<tr>
<td>Costarella L.</td>
<td>33</td>
</tr>
<tr>
<td>Costes S.</td>
<td>17</td>
</tr>
<tr>
<td>Cotronoe A.R.</td>
<td>6</td>
</tr>
<tr>
<td>Croci A.T.</td>
<td>36</td>
</tr>
<tr>
<td>Cruickshank J.</td>
<td>14, 27, 37</td>
</tr>
<tr>
<td>Crusi Sererols X.</td>
<td>14</td>
</tr>
<tr>
<td>Cruz Sánchez M.</td>
<td>36</td>
</tr>
<tr>
<td>Cruz-Pardos A.</td>
<td>6, 8, 13</td>
</tr>
<tr>
<td>Curry J.</td>
<td>36</td>
</tr>
<tr>
<td>D’Antonio J.</td>
<td>38</td>
</tr>
<tr>
<td>da Assunção R.</td>
<td>18, 36, 38</td>
</tr>
<tr>
<td>Dahabreh Z.</td>
<td>34</td>
</tr>
<tr>
<td>Dahl J.</td>
<td>23</td>
</tr>
<tr>
<td>Dalgleish S.</td>
<td>36</td>
</tr>
<tr>
<td>Dall’Oca C.</td>
<td>17, 32, 38</td>
</tr>
<tr>
<td>Dalla Pria P.</td>
<td>10, 23</td>
</tr>
<tr>
<td>Dantas P.</td>
<td>18, 35</td>
</tr>
<tr>
<td>Das D.</td>
<td>10, 28, 29</td>
</tr>
<tr>
<td>Das H.</td>
<td>29</td>
</tr>
<tr>
<td>Davies N.</td>
<td>6, 36</td>
</tr>
<tr>
<td>Davis J.</td>
<td>32</td>
</tr>
<tr>
<td>De Meo F.</td>
<td>20, 36</td>
</tr>
<tr>
<td>de Wit B.</td>
<td>28</td>
</tr>
<tr>
<td>Deehan D.</td>
<td>19</td>
</tr>
<tr>
<td>del Prete F.</td>
<td>12</td>
</tr>
<tr>
<td>Deledda D.</td>
<td>8</td>
</tr>
<tr>
<td>Della Rocca F.</td>
<td>33</td>
</tr>
<tr>
<td>Demezon H.</td>
<td>17</td>
</tr>
<tr>
<td>den Hartog Y.</td>
<td>12, 19, 34</td>
</tr>
<tr>
<td>Denaro V.</td>
<td>6, 33</td>
</tr>
<tr>
<td>Dewan V.</td>
<td>38</td>
</tr>
<tr>
<td>Di Leo T.</td>
<td>12</td>
</tr>
<tr>
<td>Di Pasquale G.</td>
<td>33</td>
</tr>
<tr>
<td>Di Pietro R.</td>
<td>32</td>
</tr>
<tr>
<td>Di Stefano A.</td>
<td>33</td>
</tr>
<tr>
<td>Diz-Freire P.</td>
<td>8</td>
</tr>
<tr>
<td>Diercks R.</td>
<td>37</td>
</tr>
<tr>
<td>Dikmen G.</td>
<td>15, 27, 34</td>
</tr>
<tr>
<td>Divecha H.</td>
<td>37</td>
</tr>
<tr>
<td>Dobrindt O.</td>
<td>13, 24, 37</td>
</tr>
<tr>
<td>Domb B.</td>
<td>10, 26, 31, 32, 33</td>
</tr>
<tr>
<td>Donaldson T.K.</td>
<td>15, 16, 28</td>
</tr>
<tr>
<td>Dora C.</td>
<td>12, 16</td>
</tr>
<tr>
<td>Dorn U.</td>
<td>38</td>
</tr>
<tr>
<td>Dramis A.</td>
<td>35</td>
</tr>
<tr>
<td>Dungl P.</td>
<td>8</td>
</tr>
<tr>
<td>Dunitz S.</td>
<td>34</td>
</tr>
<tr>
<td>Dunlop D.</td>
<td>8</td>
</tr>
<tr>
<td>Dunne K.</td>
<td>10, 26, 31, 32</td>
</tr>
<tr>
<td>Eastwood S.</td>
<td>31</td>
</tr>
<tr>
<td>Ebied A.</td>
<td>6, 24, 35</td>
</tr>
<tr>
<td>Ebied A.A.</td>
<td>24</td>
</tr>
<tr>
<td>Eisler T.</td>
<td>8, 33</td>
</tr>
<tr>
<td>Ejinisman L.</td>
<td>36</td>
</tr>
<tr>
<td>El Bitar Y.</td>
<td>32</td>
</tr>
<tr>
<td>el Kaïm M.</td>
<td>15</td>
</tr>
<tr>
<td>Eleveled H.G.</td>
<td>10</td>
</tr>
<tr>
<td>Elo P.</td>
<td>28</td>
</tr>
<tr>
<td>Emami Moghaddam Tehrani M.</td>
<td>33</td>
</tr>
<tr>
<td>Emerson R.</td>
<td>23, 31</td>
</tr>
<tr>
<td>Emms N.W.</td>
<td>34</td>
</tr>
<tr>
<td>Engqvist H.</td>
<td>38</td>
</tr>
<tr>
<td>Epinette J.-A.</td>
<td>6, 15, 25</td>
</tr>
<tr>
<td>Eskelinen A.</td>
<td>28, 35</td>
</tr>
<tr>
<td>Esopi P.</td>
<td>34</td>
</tr>
<tr>
<td>Essig J.</td>
<td>34</td>
</tr>
<tr>
<td>Ettedah H.</td>
<td>9, 13</td>
</tr>
<tr>
<td>Evangelopoulos D.</td>
<td>37</td>
</tr>
<tr>
<td>Evans S.</td>
<td>37</td>
</tr>
<tr>
<td>Evola F.R.</td>
<td>33</td>
</tr>
<tr>
<td>Eysel P.</td>
<td>7</td>
</tr>
<tr>
<td>Faber M.</td>
<td>19</td>
</tr>
<tr>
<td>Fagotti L.</td>
<td>36</td>
</tr>
<tr>
<td>Faizan A.</td>
<td>16, 34</td>
</tr>
<tr>
<td>Falcioni S.</td>
<td>34</td>
</tr>
<tr>
<td>Farah S.</td>
<td>35, 38</td>
</tr>
<tr>
<td>Farizon F.</td>
<td>15</td>
</tr>
<tr>
<td>Farrington B.</td>
<td>13</td>
</tr>
<tr>
<td>Favre P.</td>
<td>16</td>
</tr>
<tr>
<td>Fernandes J.</td>
<td>32</td>
</tr>
<tr>
<td>Fernandez-Fernandez R.</td>
<td>8, 13, 17</td>
</tr>
<tr>
<td>Fernández-Valencia J.A.</td>
<td>8</td>
</tr>
<tr>
<td>Ferrante M.</td>
<td>33</td>
</tr>
<tr>
<td>Ferreira A.</td>
<td>8, 33</td>
</tr>
<tr>
<td>Fessenden M.</td>
<td>31</td>
</tr>
<tr>
<td>Field C.</td>
<td>35, 38</td>
</tr>
<tr>
<td>Figueiredo A.</td>
<td>17, 36</td>
</tr>
<tr>
<td>Filippi G.</td>
<td>20</td>
</tr>
<tr>
<td>Finch N.</td>
<td>32</td>
</tr>
<tr>
<td>Finlayson D.</td>
<td>35, 37</td>
</tr>
<tr>
<td>Fiore M.</td>
<td>33</td>
</tr>
<tr>
<td>Fitch D.</td>
<td>33</td>
</tr>
<tr>
<td>Flatoy B.</td>
<td>23</td>
</tr>
<tr>
<td>Flecher X.</td>
<td>11, 21</td>
</tr>
<tr>
<td>Fletcher M.</td>
<td>37</td>
</tr>
<tr>
<td>Flikweert E.</td>
<td>37</td>
</tr>
<tr>
<td>Flivik G.</td>
<td>9, 18, 36</td>
</tr>
<tr>
<td>Flohr M.</td>
<td>15</td>
</tr>
<tr>
<td>Flueckiger R.</td>
<td>27</td>
</tr>
<tr>
<td>Fogerty S.</td>
<td>38</td>
</tr>
<tr>
<td>Fole R.</td>
<td>7</td>
</tr>
<tr>
<td>Francescotto A.</td>
<td>8</td>
</tr>
<tr>
<td>Fraschini G.</td>
<td>32</td>
</tr>
<tr>
<td>Freeman J.</td>
<td>19</td>
</tr>
<tr>
<td>Frew N.</td>
<td>34</td>
</tr>
<tr>
<td>Frumento P.</td>
<td>8, 33</td>
</tr>
<tr>
<td>Fuji T.</td>
<td>32</td>
</tr>
<tr>
<td>Fujii H.</td>
<td>24</td>
</tr>
<tr>
<td>Fujishiro T.</td>
<td>26, 32</td>
</tr>
<tr>
<td>Fujita H.</td>
<td>33</td>
</tr>
<tr>
<td>Name</td>
<td>Pages</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Furnäs O.</td>
<td>22</td>
</tr>
<tr>
<td>Furuhashi H.</td>
<td>14</td>
</tr>
<tr>
<td>Gallacher P.</td>
<td>8</td>
</tr>
<tr>
<td>Gallart X.</td>
<td>8</td>
</tr>
<tr>
<td>Garavaglia G.</td>
<td>12</td>
</tr>
<tr>
<td>García-Cimbrelo E., 6, 8, 13, 19, 21, 23, 31</td>
<td>García-Ramiro S., 8</td>
</tr>
<tr>
<td>García-Rey E., 6, 7, 8, 13</td>
<td>Gardeniers J.W.M., 6, 20</td>
</tr>
<tr>
<td>Garrellick G., 8, 17, 22, 23, 24, 32, 33, 38</td>
<td>Garling E., 6</td>
</tr>
<tr>
<td>Garuço A.</td>
<td>36</td>
</tr>
<tr>
<td>Gehr P., 20, 23, 31, 35</td>
<td>Gee M., 17</td>
</tr>
<tr>
<td>Gerov I., 38</td>
<td>Gersbach S., 35</td>
</tr>
<tr>
<td>Ghatahora A., 37</td>
<td>Ghijselings S., 27</td>
</tr>
<tr>
<td>Giannoudis P., 18, 38</td>
<td>Giglio Fiorito G., 8</td>
</tr>
<tr>
<td>Gigliofiorito G., 8</td>
<td>Gil-Garay E., 8</td>
</tr>
<tr>
<td>Gill R., 6</td>
<td>Gill S., 18, 20, 35</td>
</tr>
<tr>
<td>Gioitta Iachino S., 33</td>
<td>Giorgini L., 23</td>
</tr>
<tr>
<td>Girod J., 11</td>
<td>Giusto A., 23</td>
</tr>
<tr>
<td>Gkagkalis G., 29, 38</td>
<td>Glover A., 24</td>
</tr>
<tr>
<td>Glyn-Jones S., 36</td>
<td>Goddiss S., 18</td>
</tr>
<tr>
<td>Goetheer-Smits I., 10</td>
<td>Goiff T., 37</td>
</tr>
<tr>
<td>Goff T., 37</td>
<td>Golomovziy O., 32</td>
</tr>
<tr>
<td>Gomez O., 34</td>
<td>Gomez S., 35</td>
</tr>
<tr>
<td>Gonzales A., 12, 28</td>
<td>González-Fernández E., 7</td>
</tr>
<tr>
<td>Goodson M., 35</td>
<td>Goodson N.J., 19</td>
</tr>
<tr>
<td>Goodson J., 19</td>
<td>Goosen J., 19</td>
</tr>
<tr>
<td>Gordon M., 8, 24, 33</td>
<td>Gouin F., 6</td>
</tr>
<tr>
<td>Govaers K., 35</td>
<td>Govaers L., 35</td>
</tr>
<tr>
<td>Graber P., 34, 36</td>
<td>Graf R., 14</td>
</tr>
<tr>
<td>Graham S., 32, 34</td>
<td>Graham S.M., 14, 37</td>
</tr>
<tr>
<td>Grappiolo G., 6, 33</td>
<td>Greene M., 8, 23, 31, 33</td>
</tr>
<tr>
<td>Grillo P., 8</td>
<td>Grimm B., 23</td>
</tr>
<tr>
<td>Gromov K., 8, 20, 31</td>
<td>Guarino A., 26</td>
</tr>
<tr>
<td>Guelfi M., 6</td>
<td>Guhan B., 14</td>
</tr>
<tr>
<td>Güirro Castellnou P., 35</td>
<td>Gunal I., 18</td>
</tr>
<tr>
<td>Gunasekaran K., 24</td>
<td>Günaydin B., 17</td>
</tr>
<tr>
<td>Guntner K.P., 16, 22</td>
<td>Gupta A., 26, 32, 33</td>
</tr>
<tr>
<td>Haefeli P., 27</td>
<td>Haissler K.L., 15</td>
</tr>
<tr>
<td>Hahn J., 33</td>
<td>Haller N., 22, 28</td>
</tr>
<tr>
<td>Hamada M., 34</td>
<td>Hamam A., 18</td>
</tr>
<tr>
<td>Hammarstedt J., 10, 31, 33</td>
<td>Handford C., 38</td>
</tr>
<tr>
<td>Hannant G., 17, 38</td>
<td>Hantes M., 27</td>
</tr>
<tr>
<td>Hany Saleh ElMeazay A.M., 6</td>
<td>Harada H., 33</td>
</tr>
<tr>
<td>Harper N., 34</td>
<td>Harris M., 17</td>
</tr>
<tr>
<td>Harrison T., 19</td>
<td>Harrison W.J., 14, 27</td>
</tr>
<tr>
<td>Hart R., 32</td>
<td>Harty J., 17, 37</td>
</tr>
<tr>
<td>Hashemi-Nejad A., 32</td>
<td>Hashim Z., 7, 18</td>
</tr>
<tr>
<td>Hashimoto S., 26, 32</td>
<td>Hassan A., 33</td>
</tr>
<tr>
<td>Hassani H., 29</td>
<td>Hatakeyama M., 26</td>
</tr>
<tr>
<td>Havelin L.I., 10, 30</td>
<td>Hayama T., 24</td>
</tr>
<tr>
<td>Hayashi S., 26, 32</td>
<td>Hayes T., 6</td>
</tr>
<tr>
<td>Hayward K., 35</td>
<td>Heaver C., 35</td>
</tr>
<tr>
<td>Heine W., 33</td>
<td>Hellsten E., 18</td>
</tr>
<tr>
<td>Helmy N., 33</td>
<td>Helmy Z., 33</td>
</tr>
<tr>
<td>Hernandez-Vaquero D., 10</td>
<td>Heyligers I., 23</td>
</tr>
<tr>
<td>Highcock A., 32, 37</td>
<td>Highcock A.J., 34</td>
</tr>
<tr>
<td>Hodgson H., 31</td>
<td>Hoenig E., 9</td>
</tr>
<tr>
<td>Hoffmeyer P., 12, 28</td>
<td>Hofstad J., 19</td>
</tr>
<tr>
<td>Hofstaedter T., 38</td>
<td>Höberg H., 38</td>
</tr>
<tr>
<td>Hol A., 28</td>
<td>Holton C., 11</td>
</tr>
<tr>
<td>Hoornenborg D., 8</td>
<td>Hoshino H., 14</td>
</tr>
<tr>
<td>Hothan A., 9</td>
<td>Howell F., 18, 34</td>
</tr>
<tr>
<td>Howes M., 28, 33</td>
<td>Hozack W., 34</td>
</tr>
<tr>
<td>Hrycaiczuk A., 36</td>
<td>Huddleston J., 23, 31</td>
</tr>
<tr>
<td>Hussain S., 36</td>
<td>Husted H., 8, 35</td>
</tr>
<tr>
<td>Ibañez Aparicio N., 14</td>
<td>Iedda C., 33</td>
</tr>
<tr>
<td>Ignacio O., 38</td>
<td>Ignatenko O., 37</td>
</tr>
<tr>
<td>Ilchmann T., 22, 23, 31, 34, 35, 36</td>
<td>Inversini B., 33</td>
</tr>
<tr>
<td>Ito T., 27</td>
<td>Ivanov N., 38</td>
</tr>
<tr>
<td>Iwase T., 27</td>
<td>Iyengar K., 37</td>
</tr>
<tr>
<td>Izaks G., 37</td>
<td>Izumida H., 35</td>
</tr>
<tr>
<td>Jackson T., 26</td>
<td>Jackson-Taylor E., 13</td>
</tr>
<tr>
<td>Jahangir N., 36</td>
<td>Jakobsen S.S., 32</td>
</tr>
<tr>
<td>Janardhan R., 19</td>
<td>Janz V., 14, 24</td>
</tr>
<tr>
<td>Javidmehr S., 38</td>
<td>Jeffers J., 16</td>
</tr>
<tr>
<td>Jehan S., 18</td>
<td>Jehel S., 18</td>
</tr>
<tr>
<td>Jellesen M.S., 32</td>
<td>Jellesen M.S., 32</td>
</tr>
<tr>
<td>Jimenez G., 24</td>
<td>Jo D.Y., 17</td>
</tr>
<tr>
<td>Johansen J.D., 32</td>
<td>Johansen P., 20</td>
</tr>
<tr>
<td>John A., 13, 16, 28, 31, 35</td>
<td>Johnson V., 34</td>
</tr>
<tr>
<td>Johnston L., 20</td>
<td>Jones S., 31</td>
</tr>
<tr>
<td>Jones S.A., 35</td>
<td>Julian A., 26, 38</td>
</tr>
<tr>
<td>Kaddick C., 15</td>
<td>Kahraman T., 18</td>
</tr>
<tr>
<td>Kaker L., 33</td>
<td></td>
</tr>
</tbody>
</table>
NAME INDEX

Kalenderer Ö., 17
Kalkan S., 18
Kameyama M., 14, 35
Kamo K., 37
Kanaji A., 14
Kandarakis G., 37
Kang Y.K., 17
Kanzaki N., 26, 32
Kapoor B., 37
Karachalios T., 6, 7, 9, 18, 20, 24, 31
Karampolas N., 37
Karapinar L., 17, 37
Karatosun V., 18
Kardos O.R., 14, 36
Karimnia A., 36
Kärrholm J., 9, 10, 13, 17, 22, 24, 31, 38
Karydakis G., 31
Kats J., 10
Kawaguchi Y., 24
Kay P., 23
Keel M., 33
Kendoff D., 21
Kerr D., 35, 38
Kessler B., 36
Kesteris U., 36
Khalaji M., 16
Khan A., 18
Khan H., 29
Khanduja V., 37
Kharwadkar N., 37
Khatun F., 14
Kihara S., 26
Kimposn P., 19
Kino P., 36
Kiorpelidis P., 27
Kiran M., 7
Kirschbaum S., 14
Kirwadi A., 7
Kitada M., 32
Kitahara H., 35
Kjersgaard-Andersen P., 22
Klein B., 19
Klenke F., 10, 27
Klenke F.M., 13
Klerken T., 31
Knight T., 35
Kobayashi S., 33
Kohan L., 35, 38
Kokoroghiannis C., 37
Kolodziej L., 19
Komiyama T., 14, 35
Komzak M., 32
Konstas A., 37
Korn G., 38
Koundis G., 37
Kovač S., 24, 30
Kovacevic M.P., 10, 35
Kowalczykowski J., 34
Koyama H., 14
Kräler L., 13
Krishmer M., 13, 22
Kritas A.L., 35
Kuiper J.-H., 18
Kumar G., 19, 37
Kumarac M., 17, 37
Kuonen K., 10
Kurosaka M., 26, 32
Kurtulmus T., 37
Kurze C., 33
Kutzner K.P., 10, 35
Labeck G., 7, 8, 12, 30
Labey L., 33
Ladelund S., 8
Lamb J., 38
Lamontagne M., 18, 28
Lampropoulos A., 17
Langendijk P., 19
Latham J., 21, 31
Lauresen M.B., 23
Laurençon J., 29
Laursen M.B., 11, 35
Lawton R., 18, 20
Lazenec J.Y., 16
Le Huec J.-C., 17
Lemmye A., 16
Lenart A., 33
Lengert R., 24
Leon A., 37
León García A., 35, 36
Leopardsson O., 17
Leonhardt M.C., 36
Lerch M., 11
Levašič V., 24
Li C., 15, 31
Li P., 32
Liakos N., 37
Liebs T., 23
Lilikakis A., 35
Lim J., 35
Lim R., 10
Lindgren V., 24
Lindner D., 32
Lipai R.R., 36
Littke R., 28
Lizano Díez X., 36
Lo Giudice E., 12
Lo N., 18
Lobera-Molina F., 10
Lodhia P., 10, 32, 33
Longo U.G., 6, 33
López-Hernando B., 7
Lopipini M., 6, 33
Louverdis D., 37
Love G., 20
Lübke A., 12, 28
Lubega N., 27
Luceri F., 32
Luminari E., 32
Lund B., 7
Luscombe J., 34
Macheras G., 6, 8, 20, 25
Macleod J., 35
Madan S., 7, 14, 32
Maddison P., 16
Madonia C., 12
Magnan B., 32, 38
Magra M., 36
Maheshwari R., 7
Mahesoon M., 35
Mahmood A., 19
Mahmood S., 10, 34
Mai S., 33
Mainard D., 30
Máklát K., 9
Makridis K.G., 18
Malagoli E., 6, 37
Malchau H., 20, 22, 23, 24, 31, 35
Maldonado A., 7
Malizos K., 27
Malizos K.N., 18
Mallmin H., 20
Maluta T., 32, 38
Malviya A., 19
Manara J., 14
Manfredi M., 12
Mantovani G., 18
Marante J., 24
Marchegiani F., 32
Marei S., 24, 35
Marí Molina R., 35
Marín-Peña O., 11
Maripuri S.N., 32
Marqués F., 37
Marques Lopez F., 35, 36
Martin B., 26
Martorell G., 31
Marumo K., 24
Marzban S., 34
Mason D., 31
Massari L., 8
Massè A., 12
Massimi S., 6
Masson B., 15
Massraf A., 14
Matar H.E., 37
Mathijssen N., 12, 19, 34
Matsuyama Y., 14
Matthana A., 27
Mavcic B., 11
Mazza E., 6, 37
Mazzola S., 6, 37
Memarzadeh A., 6, 18
Mendolia F., 12
Mertl P., 6
Mestre C., 37
Michelakis E., 35
Michelboeuf G., 14
Mohaddes M., 13, 22, 25, 31
Mohammed R., 35
Moilanen T., 35
Molloy R., 6
Monllau Garcia J.C., 35, 36
Moriarity A., 8, 24
Morison Z., 29
Morita D., 11
Morley D., 8
Morlock M., 9, 30
Morlock M.M., 7
Mortazavi S.J., 9, 27, 34, 38
Muirhead-Allwood S., 34
Mujeeb A., 38
Mukka S., 8, 10
Mulay S., 35
Müller M., 13, 14, 24, 37
Münch H.J., 32
Munegato D., 28, 32
Murakami H., 24
Muren O., 8, 23, 33
Mussa M.A., 15, 33, 35
Naal F., 10
Nabil M., 27
Nadkarni J., 37
Nahlik D., 32
Nakajima Y., 24
Nakata K., 32
Nakayama S., 14, 35
Namdari P., 30
Narayan B., 17
Neberga B., 23
Neeman T., 10
Neelsen R., 10, 28, 29
Nelissen R.G.H.H., 19
Neri T., 15
Nevelos J., 16, 28, 34
Neverov D., 14, 32
Ng A., 7, 18, 36, 37
Nguyen D., 35, 38
Nielsen P.T., 11, 23, 35, 36
Nieminen J., 28
Nishihara S., 34
Nishimura M., 18
Nishino T., 33
Nizard S., 15
Nolde M., 11
Nordsletten L., 23
Norris M., 37
Novelino S., 34
O’Loughlin P., 37
Ochsner P.E., 35, 36
Odak S., 37
Oehme S., 11, 36
Oersnes T., 8
Oh H.-K., 17
Okabe T., 35
Okada E., 14, 35
Okoro T., 16
Okumura T., 33
Omonbude D., 18
Oñórbe-Sanfrancisco F., 8
Önvural B., 17
Ortega-Chamarro J., 13
Otani T., 24
Overgaard S., 20
Ovnic S., 12
Owaki H., 32
Ozden V.E., 15, 27, 34
Pabinger C., 8, 14
Pajamäki J., 28, 35
Palma V., 18
Palmer S., 38
Palombi A., 38
Pandorff T., 15, 29
Pantalone A., 6, 32
Panteli M., 18, 34, 38
Papapetrou M., 7
Pari C., 8
Parikh A., 15
Parvez V., 10
Pasarih A., 16
Patel A., 6
Patif S., 29
Patrikareas C., 37
Pavone V., 33
Pawar V., 15
Peck C., 33
Pedersen A., 20
Pedrero S., 36
Peltola M., 24
Peñalver, P., 7
Peretti G.M., 32
Pérez Prieto D., 35, 36
Perez-Coto I., 10
Pérez-Prieto D., 37
Perka C., 14
Perka C., 13, 14, 16, 21, 24, 37
Perkins R., 35
Perneger T., 11
Perriam D., 10
Persson C., 38
Perticarini L., 13, 20
Peschiera V., 20
Peter R., 12, 28
Peter V., 37
Peters S., 12
Petrakos A., 10, 33
Petridis G., 11
Petrou M., 12
Petrov V., 10
Petryk T., 32
Pettersson M., 38
Pfeil J., 10
Philippot R., 15
Piasecki K., 38
Piccaluga F., 26, 31, 38
Pichieri M.S., 34
Piemont G., 37
Pierannunzii L., 26
Pilot P., 28, 29, 32
NAME INDEX

Smolders J., 7, 28
Seballe K., 7, 30, 32
Solomín L., 37
Somers J., 15
Somford M., 8
Sood M., 6, 7, 18, 36
Soogumbur A., 19
Spaans E., 31
Spaans E.A., 36
Srikantharaja D., 32
Stahl Otte K., 8
Stake C., 10, 26, 31, 32
Stark A., 8, 16, 23, 33
Starks I., 8
Stausholm A.M., 36
Stea S., 34
Stevens M., 18, 37
Stevenson J., 35
Stewart C., 16
Stewart T., 19, 33
Stigbrand H., 6
Stone M., 19, 33
Streicher R., 15
Streicher R.M., 15
Strømdal Wik T., 19
Stroud N., 34
Stucinskas J., 23, 35
Sugaya H., 33
Suksathien Y., 33
Sukthankar A., 12
Summer B., 15
Sundberg M., 36
Svab P., 32
Swaminathan V., 34
Swaminathan W., 16
Tabutin J., 6, 12, 20, 28
Tagil M., 36
Taguchi T., 36
Taheriazam A., 9, 13
Tanaka H., 36
Tanchev P.P., 36
Tarasevicius S., 23, 35
Taylor A., 36
te Stroet M.A.J., 6, 20
Ten Huisen K., 16
Terrier A., 10
Tey Pons M., 14
Tezuka M., 14, 35
Thomas P., 15
Thompson J., 20
Thorey F., 11, 13
Thorngren K.-G., 21
Thorstensson C., 32
Thysén J.P., 32
Tokgözoglu M., 21, 25
Tokushige A., 34, 36
Tomas X., 8
Tominaga T., 33
Torra M., 34
Torrés M., 37
Tosco P., 8
Toshe S., 14
Toyama Y., 14
Tozun I.R., 15, 27, 34
Trampuz A., 24
Traverso F., 6
Trebše R., 23, 24, 32
Troelsen A., 8, 20, 23, 31, 35
Trotti C., 33
Tsiridis E., 13, 37
Tucker K., 24, 30
Turgut A., 17, 37
Tzachev N., 38
Tzvetanov L., 36
Uchida S., 26
Ueno Y., 24
Ullmark G., 6, 9, 25
Unver B., 18
Uzoigwe C., 18, 28, 33
Vahid Farahmandi M., 33
Valera Pertegas M., 14
Valstar E.R., 9
Valverde Vilamala D., 35
van Arkel R., 16
van Dasselar N., 19
van den Akker-Scheek I., 18
Van Den Broek D., 35
van den Hout J., 31
van den Hout J.A.A.M., 36
Van der Straeten C., 15
van der Weegen W., 10, 28, 29
Van Doorn J., 10
van Gorp M., 28
van Kampen A., 6, 20
van Oldenrijn J., 36
van Susante J., 7, 28
Vanini D., 6, 32
Vasukutty N.L., 28, 33
Vehmeijer J., 12, 19, 34
Venkatesan M., 18
Verhaar J.A.N., 19
Verheyen C., 31
Verheyen C.C.P.M., 19
Vervest A.M.J.S., 36
Vicente J.R.N., 36
Viju P., 19
Vilensky V., 37
Vinay S., 33
Vindlacheruvu M., 37
von Roth P., 16
Wada H., 33
Waddell J., 18, 29
Waddington R., 31
Wagenmakers R., 36
Wallace M., 35
Wallner O., 33
Wan B., 18
Wang W., 18
War A., 27
Wasko M.K., 34
Wassilew G., 14, 24
Waters T., 6, 36
Webb S., 34
Wei X., 31
Wendt K., 37
West S., 15, 33, 35
Westrich G., 6, 28
Whittingham-Jones P., 6
Wiegerinck J.-J., 8
Williams R., 35
Wilson M., 11
Wimhurst J., 19
Windhagen H., 11, 23, 35
Winkler T., 16, 24
Wolf N., 19
Wretenberg P., 6, 24
Wullems J., 10, 28, 29
Wurzer P., 8
Yabuki Y., 14, 35
Yamazaki M., 33
Yanagimoto S., 14, 35
Yaron R., 35
Yasin R., 14, 36
Yoshizawa T., 33
Yuasa N., 35
Yuksel E., 18
Zagra L., 7, 10, 12, 21, 25, 31
Zanotti G., 26, 31, 38
Zapata A., 24
Zatti G., 28, 32
Zimmerli W., 36
Zingg P., 12, 16
ORAL PRESENTATIONS
As the scientific program is made of parallel sessions, speakers are recommended to respect the allotted time given for their presentations to contribute to the smooth running of the scheduled sessions. Registration to the Congress is absolutely necessary for oral presenters.

E-POSTERS
Posters will be presented in electronic format. Computers for consultation will be available in the Exhibition Area.

SLIDE PREVIEW ROOM
A computerized slide preview room is managing all the presentations and scientific sessions of the Congress through a central network. This office is located at level 3 (room 37) and is available for speakers to deliver their PowerPoint presentations with the following schedule:

- Wednesday, 8 October: 14.00-18.00
- Thursday, 9 October: 7.30-19.30
- Friday, 10 October: 7.30-19.00
- Saturday, 11 October: 7.30-13.30

Only computer projection is available in the meeting rooms and it is not possible to directly use personal laptops at the podium. PowerPoint presentations (Windows or Apple) on USB pens, memory sticks or personal laptops must be delivered to the slide preview room as follows:

Presenters with PowerPoint presentations on CD Rom, or USB pen: report to the Slide Preview Room at least 1 hour before the session or the day before in case of early morning presentations.

Presenters with presentations on personal laptop and/or using MACINTOSH/APPLE: report to the Slide Preview Room at least 2 hours before the session or the day before in case of early morning presentations in order to convert the file into Windows format and/or download the presentation onto the main system.

Presenters with video presentations: DVD format with the name of the presenting author should be delivered to the Slide Preview Room at least 2 hours before the session or the day before in case of early morning presentations.

These timings allow a smooth uploading of all presentations to the central computerized network and a swift transmission to the assigned meeting rooms.

CME CREDITS
The ‘European Hip Society 11th Congress’ is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net. The ‘European Hip Society 11th Congress’ is designated for a maximum of (or ‘for up to’) 14 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity. Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme. Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

The online CME questionnaire and certificate will be available at the congress website (www.ehs2014.org) from 13 October to 2 November 2014. Please note that the registration code, printed on your badge, will be required to access the CME questionnaire and print the certificate.
CONGRESS VENUE
Stockholm Waterfront Congress Center
Nils Ericsons Plan 4 – Stockholm, Sweden
Tel. +46 8 5050 6000
Fax +46 8 50 50 60 01
www.stockholmwaterfront.com

REGISTRATION DESK
Organizing Secretariat
OIC srl
Viale G. Matteotti, 7
50121 Florence, Italy
Tel. +39 055 50351
Fax +39 055 5001912
info@ehs2014.org
www.oic.it

The Registration desk is open with the following time schedule:
Wednesday, 8 October: 14.00-18.00
Thursday, 9 October: 7.30-20.00
Friday, 10 October: 7.30-19.00
Saturday, 11 October: 7.30-13.30

<table>
<thead>
<tr>
<th>FEES (VAT included)</th>
<th>On-Site Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member</td>
<td>€ 490,00</td>
</tr>
<tr>
<td>Non Member</td>
<td>€ 570,00</td>
</tr>
<tr>
<td>Resident - copy of course certificate or chief letter is necessary</td>
<td>€ 350,00</td>
</tr>
<tr>
<td>Accompanying person</td>
<td>€ 180,00</td>
</tr>
<tr>
<td>Exhibitor</td>
<td>€ 100,00</td>
</tr>
<tr>
<td>Industry - non exhibiting</td>
<td>€ 400,00</td>
</tr>
</tbody>
</table>

The Member, Non Member and Resident registration fees include:
• access to the scientific sessions and exhibition
• CME accreditation
• congress bag
• personalized name badge and certificate of participation
• program and abstract volume
• coffee breaks
• Opening Ceremony and Welcome Reception

The Accompanying Person registration fee includes:
• personalized name badge
• Opening Ceremony and Welcome Reception
• 2-days Stockholm Card including:
  - free admission to 80 museums and attractions
  - free sightseeing by foot, bike and boat
  - free travel by public transport
  - free Stockholm Card map folder and bonus offers

The Exhibitor and Industry non-exhibiting registration fees include:
• access to the scientific sessions and exhibition
• congress bag
• personalized name badge
• program and abstract volume
• coffee breaks
• Opening Ceremony and Welcome Reception
BADGE
Each participant receives a name badge upon check-in at the Registration desk. The badge is the official Congress pass and must be worn at all times. Badges are colour-coded as follows:
- **Blue**: Faculty
- **Transparent**: Participant
- **Green**: Accompanying person
- **Yellow**: Exhibitor

CERTIFICATE OF ATTENDANCE
Regularly registered participants receive a certificate of attendance together with the congress kit.

INDUSTRY EXHIBITION
An industry exhibition is organized during the Congress days giving the opportunity to show the latest innovative techniques and maximize interaction between participants and sponsor representatives. Participants may be asked by industry representatives at the booths to get personal contact data through bar-code scanning. Information about name, surname, country and e-mail address will be in this way given out to companies on an individual voluntary basis. Participants are recommended not to allow scanning of badges without a direct personal consent.

INTERNET
WiFi is available free of charge for participants in the Congress areas; it is necessary to connect to the network “Waterfront”, open the web browser and choose “Internet access”, type the meeting code “meet/conference” and accept the terms of use. For assistance on Internet usage the technical desk of the Congress venue is available at level 2.

E-POSTERS
Workstations to view the e-poster sessions are available in the exhibition during the Congress days. E-posters will be made available on-line after the Congress.

CATERING FACILITIES
Coffee points are available in the exhibition area during scheduled breaks. Lunch boxes are offered by companies during their industry symposia at lunch time (see program).

CLOAKROOM
A cloakroom is available for participants in the Congress area close to the Registration desk.

LOST & FOUND
Lost & found items can be recovered at the cloakroom.

LANGUAGE
The official language of the Congress is English and no simultaneous translation is foreseen during the scientific sessions.

MOBILE PHONES
The use of mobile phones is prohibited during the scientific sessions. Participants are kindly requested to keep the mobile phones turned off during the scientific sessions.

SMOKING POLICY
For the comfort and health of all participants, smoking is strictly prohibited in the building. In accordance with the local regulations, this Congress follows a strict no-smoking policy. Therefore, participants are kindly requested to refrain from smoking in the Congress area.

INSURANCE
The Congress Organizers do not assume any liability for personal injuries sustained or loss of, or damage to, property belonging to congress participants (or their accompanying persons), either during or as result of the Congress. Participants are recommended to make their own arrangements with respect to health and travel insurance.
STOCKHOLM PUBLIC TRANSPORT
Stockholm is praised for its comfortable, efficient and safe transportation. Stockholm Public Transport (SL) is responsible for buses, underground trains, commuter trains, trams and certain ferry lines in Greater Stockholm. The underground is the easiest way to get around town. The city is divided in three zones and tickets are valid for several trips within the hour. A comfortable bus transportation system is also available with a comprehensive network.
For further information visit the Stockholm Public Transport website at http://sl.se/

FROM STOCKHOLM ARLANDA AIRPORT
The Arlanda Express connects Stockholm Arlanda Airport to the main central station. The journey takes 20 minutes and trains are running 4-6 times per hour. There are two stations within the airport that are Arlanda South (terminals 2, 3 and 4) and Arlanda North (terminal 5).
Participants can benefit from a discounted price of the Arlanda Express by using the online ticket purchasing system at www.arlandaexpress.com and mentioning the Congress code EHS2014.

STOCKHOLM VISITOR CENTER
The Stockholm Visitor Center is available for participants at 5 minute walking distance from the Congress venue:
- Tourist Information
- Sightseeing and excursions
- The Stockholm Card and Public Transport tickets

Stockholm Visitor Center
Kulturhuset, Sergels Torg 3
Tel. +46 08 508 28 508
visitstockholm.com

Opening hours
From 16 September to 30 April
Mon-Fri 9.00-18.00
Sat 9.00-16.00
Sun 10.00-16.00

USEFUL TELEPHONE NUMBERS
Swedish Police, Fire, Ambulance: 112
Taxi call: +46 815 00 00, 020-20 20 20

Airport information:
Arlanda Airport: +46(0)10-109 10 00
Bromma Airport: +46(0)10-109 40 00
Skavsta Airport: +46(0)155-28 04 00

For international calls from Sweden: 00+Country code + number
For international calls to Sweden: +46 +City code (with 0) +number
OPENING CEREMONY
Thursday, 9 October, 19.10-19.50
Stockholm Waterfront Congress Center – Main Auditorium (Room A1)

WELCOME RECEPTION
Thursday, 9 October, 20.00
City Hall of Stockholm - walking distance from the Congress Center
Duration: approx. 2 hours
A walking transfer is organized at the end of the Opening Ceremony from the Congress Center.

Architecturally Stockholm’s City Hall is one of Sweden’s foremost examples of “national romanticism”. After twelve years of construction overseen by architect Ragnar Ostberg, the building was inaugurated on Midsummer’s Eve in 1923. More than 8 million bricks were used in the building of the City Hall. The City Hall Tower, topped by three golden crowns, the Swedish national coat of arms, rises 106 meters. The City Hall with its many offices, meeting rooms, council chambers and stupendous banquet halls, also hold office spaces for politicians.

The Golden Hall, traditionally used for hosting the Nobel banquet guests, will be also part of the beautiful location for the Congress Welcome Reception. The walls of the Golden Hall are covered with more than 18 million glass and gold mosaic pieces, the work of artist Einar Forseth. Using a Byzantine inspired style the mosaics depict portraits of historical figures and events in Swedish history. The hall is dominated by the “Queen of Lake Mälaren” on the northern wall which represents Stockholm being honoured by the East and the West.

Participation to the Opening Ceremony at the Congress Center and to the Welcome Reception at the City Hall of Stockholm are included in the registration fee on first-come-first-served basis. Participants are strongly recommended to wear the name badge.

The Welcome Reception is hosted by the City of Stockholm and the County of Stockholm.

SOCIAL DINNER
Friday, 10 October, 20.00
Vasa Museum
Vasamuseet 105 35 Stockholm
Duration: approx. 3 hours
Price per person: EUR 110,00
A round-trip bus transfer is provided from the Congress Center.

The Vasa Museum, located on the island of Djurgården in Stockholm, is part of the Swedish National Maritime Museums, hosting the world’s oldest and most talked-about warship that leaves other vessels and banqueting rooms trailing in its wake. This is the only Warship of the seventeenth century to have remained intact, the Regalskeppet Vasa (simply called Vasa), a Swedish galleon decorated in an elaborated manner that sank on her maiden voyage in January of 1628. The vessel was one of the largest ships of its time, 62 meters long and 1,200 tons of weight. It would probably have been used against Poland, which at that time was the main enemy of Sweden. The Vasa Museum was inaugurated in June 1990 and is certainly one of the most visited museums in Scandinavia. The Vasa Museum’s main hall maintains a constant temperature of 18 degrees Celsius (64.4 degrees Fahrenheit), therefore participants are recommended to wear appropriate clothing.

The Social Dinner is not included in the Registration.
Participants may buy tickets at the Registration desk upon availability first-come-first-served basis.

CANCELLATIONS AND REFUNDS
Any change or cancellation in connection with registration fees and hotel reservations must be sent in writing to the Congress Secretariat. No-shows incur in a 100% penalty charge, approved refunds are processed after the Congress.
LEVEL 5
Auditorium - A2

LEVEL 4
Registration desk
Cloakroom
Exhibition
E-posters
Main Auditorium - A1

LEVEL 3
Slide Preview Room - 37
Oral Session Room - 35-36
Hospitality Suites - 32 - 33 - 34

LEVEL 2
Oral Session Room - 24-25
13.00 Opening - The importance of bearings in total hip replacement
Jarkko Leskinen (Finland)

13.05 Bearings: What do registries tell us
Edward T. Davis (United Kingdom)

13.15 The perfect equation in THA
Philip Roberts (United Kingdom)

13.25 Where Verilast fits into my practice
Jarkko Leskinen (Finland)

13.35 Articulations of the future in THA
Chenxi Li (Engineer Smith & Nephew) (United Kingdom)

13.45 Open debate

Lunch will be provided

10 OCTOBER 2014
Room A1
13.05 INDUSTRY SYMPOSIUM - DEPUY SYNTHES
ADDRESSING THE MODERN HIP PATIENT WITH THE ANTERIOR APPROACH

There will be a discussion on the following topics:
• Why the Anterior Approach makes sense for today’s patient
• Anterior Approach clinical evidence review
• Surgical tips and tricks for the Anterior Approach
• Correct implant choice for the Anterior Approach
• Professional education and the Anterior Approach learning journey

Featuring Charlie DeCook (USA) and Laurent Jacquot (France)

Lunch will be provided

10 OCTOBER 2014
Room A2
13.05 INDUSTRY SYMPOSIUM - GROUPE LEPINE
DUAL MOBILITY: A 35-YEAR FRENCH EXPERIENCE ...
THE BEST SOLUTION TO PREVENT THA DISLOCATION

Dislocation: the major risk
How can we decrease dislocation risk?
Outcome & clinical results
Quattro VPS: the answer you need
Conclusion and medico economic data
Questions

Speakers:
Thierry Aslanian (France)
André Ferreira (France)
Jean Louis Prudhon (France)

Lunch will be provided
ACKNOWLEDGEMENTS

The Organizing Committee would like to thank the following Partners for their generous support

GOLDEN SPONSOR

BIOMET

SPONSORS

CeramTec
groupe l'épine
Medacta
MicroPort Orthopedics
Mobelife
smith&nephew
symbios

Special thanks to
City of Stockholm
County of Stockholm
COMPANY PROFILES

BIOMET
Waterton Ind. Estate
CF31 3XA Bridgend
United Kingdom
Tel. +44 1656 655221
Fax +44 1656 645454
eu.feedback@biomet.com
www.biomet.com

Headquartered in Warsaw, Indiana, Biomet, Inc. and its subsidiaries currently distribute reconstructive products in approximately 90 countries. With annual sales well in excess of $2 billion and over 7,000 team members worldwide, Biomet looks to the future with a focus on continued growth and innovation. With its European headquarters in Dordrecht, Netherlands and represented by subsidiaries in 22 countries, including five manufacturing sites, across the continent, Biomet offers a specialized focus on European healthcare and orthopaedics. With a history of innovation and entrepreneurial flair, Biomet is continuously expanding its presence, to pursue ground-breaking concepts for the European market place.

CERAMTEC
CeramTec-Platz, 1-9
Plochingen, 73207
Germany
Tel. 0049 7153611-0
Fax 0049 7153611950
www.biolox.com

CeramTec’s BIOLOX® materials are the most widely used ceramic components in arthroplasty. They are extremely wear-resistant and biocompatible, helping to avoid particle disease and allergic reactions. Since 1974 more than ten million ceramic BIOLOX® ball heads and BIOLOX® inserts have been used in total hip replacements. Components from BIOLOX® material are also used in total knee replacements and shoulder implants will be introduced. CeramTec GmbH, the global market leader for bioceramics in joint replacement, is also an internationally leading supplier of innovative technical ceramics for the electronics, telecommunications, automotive, medical, machinery, metal, electrical and chemical industries, developed, produced and distributed by 3,600 employees worldwide.

GROUPE LEPINE
175 Rue Jacquard
ZI Lyon Nord
CS 50307
69730 Genay - France
Tel. +33 (0)472330295
Fax +33 (0)472359650
info@groupe-lepine.com
www.groupe-lepine.com

With 300 years of existence, GROUPE LEPINE is the French leading designer and manufacturer of orthopaedic joint implants, with ergonomic instrumentation. GROUPE LEPINE is proud to introduce its Hip Replacement System Pavi/Quattro, combining advantages of cementless HA bi-coating and Dual Mobility acetabular cup. Implants with proven clinical efficiency and enhanced articulation stability. Coated with a GROUPE LEPINE exclusive Double Layer of pure porous titanium and Hydroxyapatite, all our implants are long-life validated. All products are made in our facilities in France and covered by major regulatory requirements.

DEPUY SYNTHES
Luzernstrasse 21
Zuchwil 4528
Switzerland
Tel. +41 327204060
Fax +41 327204061
dsemeacomms@its.jnj.com
www.depuysynthes.com

DePuy Synthes Companies of Johnson & Johnson is the largest, most comprehensive orthopaedic and neurological business in the world, built upon the strong legacies of two great companies. DePuy Synthes Companies offer an unparalleled breadth and depth of technology, devices, services and programs in the areas of joint reconstruction, trauma, spine, sports medicine, neurological, cranio-maxillofacial, power tools and biomaterials. Our broad array of inspired, innovative and high-quality offerings help advance the health and wellbeing of people around the world.
HYPREVENTION
PTIB Hopital Xavier Arnozan
Avenue du Haut Lévêque
33604 Pessac, France
Tel. +33 (0)558102852
j.carlier@hyprevention.com
http://hyprevention.com/

Hyprevention was created in 2010. The start-up develops, manufactures and sells Y-STRUT, an innovative implantable medical devices addressing public health issue: the high mortality and cost accompanying hip fractures. It consists in 2 cannulas made of PEEK and combined with bone cement. There is two indication. The first one is in orthopaedics, for seniors presenting poor bone quality and having a risk of fracture under low energy fall. The second one for patients who suffer prefractural lesions in femur due to tumour.

MEDACTA INTERNATIONAL
Strada Regina
6874 Castel San Pietro
Switzerland
Tel. +41 91 6966060
Fax +41 91 6966066
info@medacta.ch
www.medacta.com

Medacta International is a Swiss company developing, manufacturing and distributing joint and spine medical devices worldwide. Responsible innovation and best-in-class education are key to success. Medacta is a recognized leader in Hip Replacement due to AMIS, Anterior Minimally Invasive Surgery and in Knee Replacement due to MyKnee, Patient Matched Technology device. In 2009, Medacta entered the spine business focusing on anatomical design, implant and instrumentation modularity.

MICROPORT ORTHOPEDICS
Hoogoorddreef, 5
1101 (BA) Amsterdam
The Netherlands
Tel. +31 20 545 0120
Fax. +31 20 545 0109
aleenders@ortho.microport.com
www.ortho.microport.com

At MicroPort Orthopedics, we aim to get patients back to a state of mobility that feels as natural as possible. We understand that we’re only as good as the last patient experience. That’s why we strive for an uncommon level of integrity. For us, that means relentlessly pursuing technical advances that keep us ahead of the market and you ahead of patient expectation. It means providing the most responsive, reliable service to the healthcare community. Most of all, it means a complete commitment to getting the best possible results every time. You can depend on MicroPort Orthopedics to put integrity in motion.

MOBELIFE
Technologielaan, 15
B-3001 Leuven
Belgium
Tel. +32 16744 950
Fax +32 16744 951
info@mobelife.be
www.mobelife.be

Mobelife NV was founded as part of the Materialise Group in 2008. Our goal is to serve and assist health care providers directly - and patients indirectly - by a completely customised product development process for custom orthopedic implants. Our specialised team evaluates each case individually. Both the hard and the soft tissue are taken into account in order to forecast implant integrity and performance, guaranteeing an optimal fit, better stability and improved mobility. Hereby, our products meet the highest standards for custom implants and they maximally improve the patient’s quality-of-life after the most complex reconstruction surgery.

ORTOMA
Erik Dahlbergsgatan, 11a
41126 Goteborg
Sweden
Tel. ++46 31 786 55 03
info@ortoma.com
www.ortoma.com

Ortoma Treatment Solution combines 3D pre-operative planning with high precision navigation during surgery. Ortoma Treatment Solution assists the surgeon in one system during surgical planning and implant guiding during operation in order to restore anatomical construction in THA.

SMITH & NEPHEW
Oberneuhofstrasse 10d
6340 Baar
Switzerland
Tel. +41 417662222
www.smith-nephew.com

Smith & Nephew is a global medical technology business dedicated to helping improve people’s lives. We have leadership positions in Orthopaedic Reconstruction, Advanced Wound Management, Sports Medicine and Trauma:
• Orthopaedics Reconstruction - joint replacement systems for knees, hips and shoulders
• Advanced Wound Management - wound care treatment and prevention products used to treat hard-to-heal wounds
• Sports Medicine - minimally invasive surgery of the joint
• Trauma - products that help repair broken bones
Stryker is one of the world’s leading medical technology companies and together with our customers, we are driven to make healthcare better. The Company offers a diverse array of innovative medical technologies, including reconstructive, medical and surgical, and neurotechnology and spine products to help people lead more active and more satisfying lives. Stryker products and services are available in over 100 countries around the world and please contact us for more information at www.stryker.com

Symbios Orthopédie Sa was created in 1989 to design and manufacture Custom Hip Prostheses. The hips are designed using a complete X-rays file and numerical data form from CT-Scan to reconstruct precisely the articulation in 3 dimensions. Designing Custom Stems allowed Symbios Orthopédie SA to acquire a solid reputation and expertise in developing a standard line, simple and coherent to answer daily surgery. Symbios Orthopédie SA is now the world leader in Custom hip prostheses and an important contributor to the European hip and knee prostheses market. It employs directly about one hundred people all over Europe; the European headquarter and production plant is located in Switzerland at Yverdon-Les-Bains. Offering a complete range of hip and knee implants, Symbios Orthopédie SA continues its development in an environment that is competitive, but characterised by a growing demand due notably to an ageing population.

Wichtig International is an independent STM publisher of journals in the fields of clinical medicine and bioengineering. It is the publisher of Hip International, which is the Official Journal of the European Hip Society, and it also specializes in other areas such as nephrology, oncology, ophthalmology, gynecology, urology, and biomaterials, titles include the Journal of Vascular Access, the International Journal of Artificial Organs, The European Journal of Ophthalmology, the International Journal of Biological Markers amongst others. Wichtig International has offices in UK and Italy.