

Program 4th International Congress of Arthroplasty Registries, May 23-25, 2015

Venue:	Conference Centre Wallenberg, Medicinaregatan 20A Room: Wallenbergssalen (except Parallel session II Monday)
Saturday	
07.15	Bus departure from hotel Gothia Towers
07.15 –	Registration / uploading presentations
	Statistics, data quality and PROMs
08.30 – 10.30	Methodology Chairs: <i>Stein Atle Lie, David Lewallen</i> Local moderator: <i>Göran Garellick</i>
08.30 – 08.40	Introduction: <i>Göran Garellick</i>
08.40 – 08.55	Big Data, observational studies versus RCT (<i>Måns Rosén</i>)
08.55 – 09.10	The randomized registry trial — the next disruptive technology in clinical research? (<i>Oskar Angerås</i>)
09.10 – 09.25	Propensity score – advantages and pitfalls in observational studies (<i>Stefan Franzén</i>)
09.25 – 10.05	Validation processes in different registries (10 min each) <ul style="list-style-type: none"> • Dutch Arthroplasty Register (<i>Liza van Steenbergen</i>) • National Joint Registry (England/Wales/NI) (<i>Martyn Porter</i>) • Swedish Hip Arthroplasty Register (<i>Maziar Mohaddes</i>) • Australian National Joint Replacement Registry (<i>Stephen Graves</i>)
10.05 – 10.15	Case-mix adjustment - “the average patient” (<i>Johan Kärrholm</i>)
10.15 – 10.30	Discussion
10.30 – 10.55	Coffee and poster viewing
10.55 – 12.30	1. 10 Podium presentations of methodological papers (7 minutes each + 2 minutes for discussion) Chairs: <i>Richard de Steiger, Johan Kärrholm</i> Local moderator: <i>Göran Garellick</i> <ul style="list-style-type: none"> • 1:1 Co-occurring competing risk for 92 160 primary THR with 12 843 revisions and 52 380 deaths (<i>Stein Atle Lie et al.</i>) • 1:2 Validation of the prosthetic joint infection diagnosis in the Danish Hip Arthroplasty Register (<i>Per Hviid Gundtoft et al.</i>)

- **1:3** Predicting who will be recommended for THR and those who will proceed: A tool for surgical recommendations (*Meridith Greene et al.*)
- **1:4** Validation of reporting of primary and revision THRs/TKRs to the Norwegian Arthroplasty Register and Norwegian Patient Register, 2008-2012 (*Ove Furnes et al.*)
- **1:5** Registry-retrieval linkage: An independent validation and data quality assessment of primary THRs on the NJR for England, Wales and Northern Ireland (*Shiraz Alam Sabah et al.*)
- **1:6** Novel risk-adjustment method for functional outcomes after TKR (*Wenjun Li et al.*)
- **1:7** Analysis of registry data: The importance of prosthesis specific analysis – an AOANJRR perspective (*Michelle Lorimer et al.*)
- **1:8** Total joint reconstruction: A multi-risk factor analysis of physical activity level 1-2 years post-surgery (*Elizabeth W Paxton et al.*)
- **1:9** Creating a crosswalk between UCLA and lower extremity activity scales (*Hassan M K Ghomrawi et al.*)
- **1:10** Outcomes of staged versus simultaneous bilateral TKR (*Eric Bohm et al.*)

12.30 – 13.30

Lunch / uploading presentations

13.30 – 15.00

Registry harmonization: Implications for all stakeholders

Chairs: *Stephen Graves, Blair Fraser, AdvaMed*

Local moderator: *John Timperley*

- Topic 1. A harmonized approach to aggregate data from different registries; is this needed?
 - Industry view – 10 min (*Jing Xie, Biomet*)
 - Registry view – 10 min (*Stephen Graves*)
- Topic 2. A harmonized approach to registry data access; is there a need for standardized reports?
 - Industry view – 10 min (*Paul Voorhorst, DePuy Synthes*)
 - Registry view – 10 min (*Martyn Porter*)
- Topic 3. A harmonized approach to using arthroplasty registries for premarket assessment and post market surveillance of implants; how can this be achieved?
 - Industry view – 10 min (*Blair Fraser, Smith & Nephew*)
 - Registry view – 10 min (*Henrik Malchau*)
- Topic 4. Registry harmonization; European perspective
 - Industry view – 10 min (*Alexander Grimberg, Link*)

Moderated discussion – 20 min

15.00 – 15.15

Coffee and poster viewing

15.15 – 16.45

Workshop for new and developing registries

Chair: *Henrik Malchau*

Meet the experts and discuss: Initial data set, analyses, validation, staffing, governance, funding, and secrets for success

Graves, Malchau, Nelissen, Overgaard, Paxton, Porter, Robertsson, Tucker and Garellick

17.00 – 19.00 **Reception – Centre of Registers, Medicinaregatan 18G, 4th floor**

19.10 **Bus departure to hotel Gothia Towers**

Sunday

- 07.15** **Bus departure from hotel Gothia Towers**
- 07.15 –** **Registration / uploading presentations**
- 08.30 – 08.40 Welcome Knee/Hip and House Keeping
Otto Robertsson, Göran Garellick
- 08.40 – 08.50 ISAR – Welcome
Martyn Porter
- 08.50 – 09.45 Key note speakers: 15 min each
- Chair:** *Martyn Porter*
Local moderator: *Szilárd Nemes*
- National registries – Improved Health Care?
Jonas Andersson
- Getting it right first time!
Timothy Briggs
- Quality Registries in Sweden
Soffia Gudbjörnsdottir
- Discussion
- 09.45 – 10.15** **Coffee and poster viewing**
- 10.15 – 10.45 Report from ISAR Harmonization Working Group (*Stephen Graves*)
- Discussion
- 10.45 – 11.15 Report from ISAR PROMs-project Working Group (*Ola Rolfson*)
- Discussion
- 11.15 – 12.45 **2. 9 Podium presentations of papers - Harmonization/PROMs (7 minutes each + 2 minutes for discussion)**
- Chairs:** *Patricia Franklin, Eric Bohm*
Local moderator: *Hans Lindahl*
- **2:1** The mixing and matching of components from different manufacturers in THR (*Keith Tucker et al.*)
 - **2:2** Minimal detectable change for mobility and patient-reported tools in people with osteoarthritis awaiting arthroplasty (*Ian A Harris et al.*)
 - **2:3** Defining an international standard set of outcomes measures for patients with hip or knee osteoarthritis: Consensus of the International Consortium of Health Outcome Measurement Hip and Knee Osteoarthritis Working Group (*Ola Rolfson et al.*)
 - **2:4** Predicting health-related quality of life outcomes in patients eligible for THR (*Szilard Nemes et al.*)

- **2:5** KOOS, JR. a new short-form knee replacement relevant outcomes survey (*Stephen Lyman et al.*)
- **2:6** Profiles of pre-operative pain and function in patients receiving THRs: A US national cohort (2011-2014) (*Uyen-Sa D T Nguyen et al.*)
- **2:7** Preoperative patient reported outcome measures are predictive of postoperative outcome at 2 years following unicompartmental knee arthroplasty (*Kevin A Lawson et al.*)
- **2:8** Using six month post-TKR pain and function measures by implant category for surveillance of early revision risk (*David C Ayers et al.*)
- **2:9** Feasibility and usefulness of the collection of PROMs for primary and revision shoulder replacement surgery by the UK NJR (*Mike Thomas et al.*)

12.45 – 13.45

Lunch / uploading presentations

13.45 – 15.45

Registry results on revisions – hip/knee

Chairs: *Otto Robertsson, Leif Havelin*

Local moderator: *Szilárd Nemes*

13.45 – 13.55

Hip revisions in Australia – *Richard de Steiger*

13.55 – 14.05

Knee revisions in Norway – *Ove Furnes*

14.05 – 15.45

3. 10 Podium presentations of papers - Revisions (7 minutes each + 2 minutes for discussion):

- **3:1** Improved results after hip revisions due to loosening, but not when performed due to other causes. Analysis of 31,404 first time revisions in the Swedish Hip Arthroplasty Register (*Maziar Mohaddes et al.*)
- **3:2** Introduction of new acetabular designs does not influence risk of early failure in hip arthroplasty (*M Björk et al.*)
- **3:3** Association between hospital procedure volume and risk of revision after THA: A population-based study within the Nordic Arthroplasty Register Association database (*Eva N Glassou et al.*)
- **3:4** Revising a large head MoM THA: Analysis from the AOANJRR (*Richard de Steiger et al.*)
- **3:5** Revision risk of cementless MoM THA is influenced by component design (*Claus Varnum et al.*)
- **3:6** Comparison of metal and ceramic heads with metal on highly crosslinked polyethylene liners (*Guy Cafri et al.*)
- **3:7** First revisions after primary knee arthroplasties in Sweden 2003-2012 (*Otto Robertsson et al.*)
- **3:8** Addition of patella component in painful non-resurfaced TKAs; does it help? (*Tesfaye H Leta et al.*)
- **3:9** Gender difference in the rate of revision for infection following primary TKA (*David Davidsson et al.*)
- **3:10** The risk of revision in TKA is not affected by previous high tibial osteotomy: A 15 year follow-up of 32,476 TKAs in the NAR (*Mona Badawy et al.*)

15.45 – 16.15

Coffee and poster viewing

16.15 – 18.00

Registry research in general

16.15 – 16.30

Report from ISAR Research and Publication guidelines Working Group
(*Henrik Malchau*)

16.30 – 18.00

Chairs: *Søren Overgaard, Michael Dohm*

Local moderator: *Henrik Malchau*

4. 9 Podium presentations of papers - Revisions and Varia (7 minutes each + 2 minutes for discussion)

- **4:1** Prosthetic joint infection (PJI) risk stratification using a previously published risk score (*Hilal Maradit Kremers et al.*)
- **4:2** Patient comorbidity is the most important factor for increased risk of postoperative deep infection following primary THR (*Viktor Lindgren et al.*)
- **4:3** Risk of revision surgery in HA coated femoral hip stems (*Maria C S Inacio et al.*)
- **4:4** A genome-wide association study of osteolysis after THR (*Scott J MacInnes et al.*)
- **4:5** Exchangeable necks of femoral stems: When surgeons do not trust Registry data (*Susanna Stea et al.*)
- **4:6** Outcomes of THR in patients with cerebral palsy (CP) (*Garry King et al.*)
- **4:7** Outcome of THR in young patients under 20 years of age (*Masako Tsukanaka et al.*)
- **4:8** Life expectancy of octogenarian patients after primary hip arthroplasty (*Cristian Tebé et al.*)
- **4:9** Core outcome domains for total joint replacement clinical trials: A preliminary consensus (*Jasvinder A Singh et al.*)

18.15

Bus departure to hotel Gothia Towers

19.30

Congress Dinner

Monday**07.15** **Bus departure from hotel Gothia Towers****07.15 –** **Registration / uploading presentations**

08.00 – 09.30 Emerging registries

Chairs: *Rob Nelissen, Keijo Mäkelä***Local moderator:** *Göran Garellick*08.00 – 09.30 **5. 9 Podium presentations of papers - Emerging registries (7 minutes each + 2 minutes for discussion)**

- **5:1** American Joint Replacement Registry (AJRR): First Annual Report and subsequent progress (*Caryn D Etkin et al.*)
- **5:2** Challenges in developing joint registry in a developing country: Interim Report of Pakistan National Joint Registry (*Syed Shahid Noor et al.*)
- **5:3** Validation of primary THRs in the Reykjavik Arthroplasty Register (*Eythor Orn Jonsson et al.*)
- **5:4** Is still Charnley monoblock prosthesis an option for hip arthritis? Long term results of the Uruguayn Arthroplasty Register (*Henry Albornoz et al.*)
- **5:5** Journey travelled by Indian Society of Hip and Knee surgeon registry (*J A Pachore et al.*)
- **5:6** Body mass and weight thresholds for increased deep infection rates after primary total joint arthroplasty (*Anne Lübbeke et al.*)
- **5:7** Is infection rate high in developing countries? 8 years data from Egyptian Community Arthroplasty Register (*Mahmoud A Hafez et al.*)
- **5:8** Developing and implementing an electronic national arthroplasty register. A patient safety initiative: Challenges and solutions (*Roseanne Smith et al.*)
- **5:9** American Joint Replacement Registry (AJRR): Results of a level II data reporting pilot study (*Caryn D Etkin et al.*)

09.30 – 10:00 **Coffee and poster viewing**

10.00 – 11.40 Registry research - Varia

Chairs: *John Timperley, Keith Tucker***Local moderator:** *Maziar Mohaddes***6. 11 Podium presentations of papers - Varia (7 minutes each + 2 minutes for discussion):**

- **6:1** Cemented fixation of THA is not as deadly as previously suggested: A nationwide case-control study on perioperative mortality and morbidity in 1 054 748 individuals (*Anne Garland et al.*)
- **6:2** Late elevated risk for cardiovascular disease following cemented THA in osteoarthritis of the hip: A nationwide case-control study from the Swedish Hip Arthroplasty Register on mortality and morbidity in 392,387 individuals (*Max Gordon et al.*)
- **6:3** Impact of social and behavioral factors on outcomes of total knee (TKA) and total hip (THA) arthroplasty (*Hilal Maradit Kremers et al.*)

- **6:4** US patient risk factors for medical and surgical readmissions after TJR (*Patricia D Franklin et al.*)
- **6:5** Racial disparities in hip/knee joint replacements in England (*Michèle C Smith et al.*)
- **6:6** Prevalence of total hip (THA) and knee (TKA) arthroplasty in the United States (*Hilal Maradit Kremers et al.*)
- **6:7** Application of two health registers in risk and heritability estimates of THA: A nationwide population based follow-up study in Danish twins (*Søren Glud Skousgaard et al.*)
- **6:8** Opioid use as an early indication of THA failure (*Robert S Namba et al.*)
- **6:9** 10 year trends in complications after 540,623 primary THRs using a national database (*TCJ Partridge et al.*)
- **6:10** Dramatic reduction in blood transfusion through a quality improvement project in the Michigan Arthroplasty Registry (*Brian R Hallstrom et al.*)
- **6:11** Not all cemented stems are the same..... (*Hussain A Kazi et al.*)

11.40 – 12.40

“Policy” session

Chairs: *Liz Paxton, Henrik Malchau*

Local moderator: *Hans Lindahl*

7. 6 Podium presentations of papers - Policy (7 minutes each + 2 minutes for discussion):

- **7:1** ODEP and the use of registry data (*Keith Tucker et al.*)
- **7:2** Evaluating hospital performance in TKA and in THA implant through 12 indicators (*Marinelli M et al.*)
- **7:3** Change in type of hip prostheses used in the Netherlands due to new policy (*Denissen GAW et al.*)
- **7:4** Individual surgeons scorecard as part of a provincial registry (*James P Waddell et al.*)
- **7:5** Patient, physician, and regulator benefits of providing data access to manufacturer: The experience of one manufacturer in 2014 (*John Leopold*)
- **7:6** Growth curve models for population health management demonstrate recovery after primary TKA (*Kirkness CS et al.*)

12.40 – 13.30

Lunch / uploading presentations

13.30 – 14.20

Parallel session I: How do current registers cover trauma issues?

Chairs: *Cecilia Rogmark, Colin Currie*

Local moderator: *Maziar Mohaddes*

Periprosthetic fractures - how big is the problem?

Hans Lindahl, Swedish Hip Arthroplasty Register (10 min)

Tracking of periprosthetic fractures via the Swedish Fracture Register
Michael Möller, Swedish Fracture Register (10 min)

Decision algorithm for internal fixation or arthroplasty in femoral neck fractures - the Norwegian experience

Jan-Erik Gjertsen, Norwegian Hip Fracture Register (10 min)

Hip Fracture Audit: the first 25 years – from collecting data to saving lives

Colin Currie, UK National Hip Fracture Database (10 min)

Discussion – 10 min

13.30 – 14.20

Parallel session II: Shoulders - How do we assess the registry data results?

Room: Europa

Chairs: *Richard Page, Björn Salomonsson*

Local moderator: *Ola Rolfson*

Australian experience. The use of National Registry data to identify shoulder prostheses with higher than expected revision rates

Richard S Page (10 min)

Outcome based on longitudinal follow-up by PROM in the Swedish Shoulder Registry

Björn Salomonsson (10 min)

Nordic collaboration. The NARA shoulder Minimal Data Set

Jeppe Veilgard Rasmussen (10 min)

Permanente-Australian OA TJR shoulder arthroplasty registry comparison

Ronald A Navarro (10 min)

Discussion – 10 min

14.20 – 14.35

Coffee

14.35 – 16.00

8. 9 Podium presentations of papers - Trauma and Shoulders (7 minutes each + 2 minutes for discussion)

Chairs: *Jan-Erik Gjertsen, Ronald A Navarro*

Local moderator: *Göran Garellick*

- **8:1** Hemi or total hip arthroplasty for individuals with femoral neck fracture. A matched pair analysis (*Susanne Hansson et al.*)
- **8:2** A web-based international hip fracture audit database (HFAD): Report on the pilot phase (*Colin Currie et al.*)
- **8:3** Using device data to improve detection of intra-operative femur fractures in THA (*Richard E Hughes et al.*)
- **8:4** Shoulder revisions reported in the Swedish Shoulder and Elbow Registry (*Björn Salomonsson et al.*)
- **8:5** Search for a standard for the documentation and evaluation of surgical complications after shoulder arthroplasty (*Laurent Audigé et al.*)

- **8:6** Comparison of conventional and reverse total shoulder replacement: Australian National Joint Replacement Registry perspective (*Richard S Page et al.*)
- **8:7** Shoulder Arthroplasty in patients less than 50 years of age: A collaborative study between the New Zealand and Australian Joint Registries (*Earle Savage et al.*)
- **8:8** Shoulder arthroplasty in Italy: Epidemiological analysis (*Marina Torre et al.*)
- **8:9** Partial shoulder replacement: Australian National Joint Replacement Registry perspective (*Richard S Page et al.*)

16.00 – 16.45

ISAR and the future

Report from working group Clinical Improvement – *Liz Paxton (15 min)*

Future strategy – *Martyn Porter (15 min)*

Panel discussion – *ISAR Steering Committee and all (15 min)*

16.45 – 17.05

ISAR Prize Awards and final remarks: *Martyn Porter*

Best podium presentation

Best poster

Next meeting

17.15

Bus departure to hotel Gothia Towers