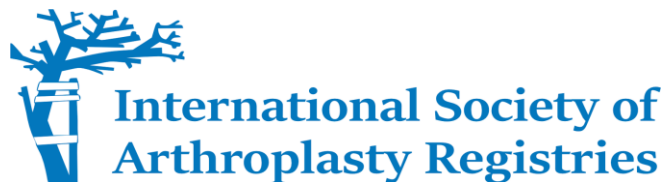


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## Program - 12th Annual ISAR congress – May 13<sup>th</sup> – 15<sup>th</sup>, 2023, Montreal, Canada

**Venue: Hotel Omni Mont-Royal, Saisons Ballroom, 1<sup>st</sup> floor**

### Saturday May 13<sup>th</sup>

**7.00 – 8.00 Breakfast – Room: Pierre de Coubertin**

**7.30 – 8.00 Registration**

**8.00 – 8.15 Welcome Remarks**

**8.15 – 9.15 Lessons Learned in Establishing and Running a Registry  
International Perspectives**

Moderators: Eric Bohm and Ola Rolfson

Presenters:

Tim Wilton, NJR

James (Hutch) Huddleston III, AJRR

Michael Turner, CJRR

**9.15 – 10.15 Understanding Registry Statistics**

Moderator: Adrian Sayers

Presenters:

Heather Prentice: Estimating failure using Kaplan Meier

Anne Marie Fenstad: Comparing failure using the Cox model

Adrian Sayers: Competing events and estimating failure

**10.15 – 10.45 Coffee & Posters: Implant Outcomes and Data Quality**

2 minute presentation poster walk

Adjudicators: Richard de Steiger and Jörg Lützner

No 90	Does precoating of the NexGen Option tibial component lower the risk of loosening? 10 years follow up from the Norwegian Arthroplasty Register 2012-2021	Michelle Khan, Stein Håkon Låstad Lygre, Paul Johan Højl, Ove Furnes	Michelle Khan
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No 2	Association of coating and architecture of the surface metal with survival of uncemented total knee arthroplasty - A comparison between 11,135 uncemented and 235,500 cemented implants registered in the Dutch Arthroplasty Register	Raymond Puijk, Rachid Rassir, Inger N Sierevelt, Anneke Spekenbrink-Spooren, Rob G H H Nelissen, Peter A Nolte	Raymond Puijk
No 31	Long-term implant survival of hemiarthroplasties with three different head designs as treatment of patients with femoral neck fractures	Cecilia Rogmark, Jonatan Nåtman Soren Overgaard, Maziar Mohaddes	Maziar Mohaddes
No 8	The completeness of national joint replacement registers from around the globe	Jonathan M French, Kevin Deere, Michael R Whitehouse, Adrian Sayers	Adrian Sayers
No 41	Adherence, completeness and correctness of the Tyrolean hip arthroplasty registry – an external validation study	Sabrina Neururer, Moritz Wagner, Irmgard Delmarko, Dietmar Dammerer, Paul Nardelli, Gerhard Kaufmann, Matthias Braitto, Alexander Brunner	Florian Pedross

**10.45 – 12.00****Podium Presentations: Implant Outcomes**

5 minute presentation and 2 minute discussion

Moderators: Jason Werle and Annette W-Dahl

No 54	Survivorship of modern cementless total knee arthroplasty: Analysis from the Canadian Joint Replacement Registry	Olawale A Sogbein, Richard W McCalden, Eric R Bohm, Brent A Lanting	Eric Bohm
No 30	A non inferiority approach to investigate the differences between stem design and fixation of elective THA procedures on revision rates depending on patient age	Michael Morlock, Oliver Melsheimer	Michael Morlock
No 29	Reoperation because of periprosthetic fracture with use of polished stems. Analysis of 48,799 Exeter, MS30 and CPT stems in the Swedish Arthroplasty Register (SAR)	Vasileios Angelomenos, Georgios Chatziagorou, Maziar Mohaddes, Ola Rolfson, Johan Kärrholm	Maziar Mohaddes
No 66	Comparison of a new and an older TKA design: similar results at mid-term follow-up	Nam Lê, Oscar Vazquez, Christoph Barea, Didier Hannouche, Anne Lübbecke, Hermes H Miozzari	Hermes Miozzari
No 114	Thirty years follow-up of three commonly used femoral stems in the Norwegian Arthroplasty Register	Anne Marie Fenstad, Stein Håkon Låstad Lygre, Geir Hallan, Ove Furnes	Anne Marie Fenstad

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No 9	Substandard 10-year survival of Triathlon cementless knee prosthesis in Sweden	Annette W-Dahl, Perna Ighani Arani, Martin Sundberg, Ola Rolfson	Annette W-Dahl
No 71	The use and outcomes of multicompartamental knee replacement: A cohort study of data from the National Joint Registry in England and Wales	Kevin Deere, Adrian Sayers, Tim Wilton, Michael Whitehouse	Michael Whitehouse
No 53	Fixed bearing in primary total ankle replacement is associated with reduced revision rates	Peter Stavrou, Dylan Harries, Michelle Lorimer, Sophie Corfield	Peter Stavrou
No 76	Survival of the Exeter V40 short revision (44/00/125) stem when used in primary total hip replacement (THR), analysis of the National Joint Registry (NJR).	Jonathan T Evans, Omer Salar, Sarah Whitehouse, Exeter Hip Research Group, Adrian Sayers, Michael Whitehouse, Timothy Wilton, Matthew Hubble	Jonathan Evans
No 109	Long-time follow-up of cemented non-resurfaced total knee arthroplasty brands from the Norwegian Arthroplasty Register	Stein Håkon Låstad Lygre, Anne Marie Fenstad, Stein Atle Lie, Geir Hallan, Ove Furnes	Stein Lygre

**12.00 – 12.45**

**Lunch**

**12.45 – 2.15**

**Translating Data Into Improved Patient Outcomes**

Moderators: Jason Werle and Eric Bohm

**Keynote Speaker:** Perla J Marang -Van de Mheen (30 min virtual)  
Using Data to Improve Quality of Care and Patient Outcomes

Jason Werle (15 min): Alberta QI Initiatives  
Paddy Kenny (15 min virtual): Irish Hip Fracture QI Initiative  
Brian Hallstrom (15 min): MARQI  
Q & A (15 min)

**2.15 – 3.20**

**Podium Presentations: Quality Assurance**

5 minute presentation and 2 minute discussion  
Moderators: Jesse Wolfstadt and Liza van Steenbergen

No 96	Operationalising the international component classification system to identify functioning hip constructs and attaching attributes, tip and tricks.	Adrian Sayers, Tim Wilton, Michael R Whitehouse	Adrian Sayers
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No 92	Operationalising the international component classification system to identify functioning knee constructs and attaching attributes, tips and tricks	Adrian Sayers, Tim Wilton, Michael R Whitehouse	Adrian Sayers
No 85	Use of a registry implant database to prevent 'never-events'	Richard Armstrong, Edward Caton, J Mark Wilkinson, Chris Bolton, Elaine Young	Richard Armstrong
No 86	Improving registry compliance. A twenty-year journey to NJR mandation.	Richard Armstrong, J Mark Wilkinson, Chris Bolton, Elaine Young	Richard Armstrong
No 73	A comparison of the surgical practice of potential revision outlier joint replacement surgeons with non-outliers: A case control study from the National Joint Registry for England, Wales, Northern Ireland and the Isle of Man	Chris M Penfold, Michael R Whitehouse, Adrian Sayers, J Mark Wilkinson, Linda Hunt, Yoav Ben-Shlomo, Andrew Judge, Ashley W Blom	Michael Whitehouse
No 72	National Patient Reported Outcome Measures data from England and linkage to the National Joint Registry	Chris M Penfold, Adrian Sayers, Michael R Whitehouse, J Mark Wilkinson, Ashley W Blom, Andrew Judge	Michael Whitehouse
No 81	Italian Arthroplasty Registry: proposal of a stakeholder communication model	Iuliia Urakcheeva, Paola Ciccarelli, Veronica Mari, Simona Pascucci, Stefania Ceccarelli, Alessia Biondi, Mascia Masciocchi, Marina Torre	Paola Ciccarelli
No 87	20 years of the National Joint Registry: Who benefits?	Chris Boulton, Elaine Young, Tim Wilton, Deirdra Taylor, Ashley Blom, Mike Whitehouse, Richard Armstrong, Derek Pegg, Gillian Coward, Robin Brittain, J Mark Wilkinson	Elaine Young
No 88	Indian Joint Registry – The challenges and opportunities in establishing a national joint registry in India – progress to date	Javahir Pachore, Ashok Rajgopal, Shrinand Vaidya, Richard Armstrong	Javahir Pachore

**3.20 – 3.50****Coffee & Posters: Quality Assurance/Miscellaneous/Pharmacology**

2 minute presentation poster walk

Adjudicators: Richard de Steiger and Jörg Lützner

No 82	Principles leading the design of the RIPI Information System: an example of a multi-level registry structure for different medical devices.	Veronica Mari, Simona Pascucci, Eugenio Carrani, Duilio Luca Bacocco, Riccardo Valentini, Paola Ciccarelli, Saif Aldeen Madi, Marina Torre	Simona Pasucci
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No 83	Registries might support updating and improvement of the national MD classification CND: an example for spinal devices.	Simona Pascucci, Michela Franzò, Eugenio Carrani, Iuliia Urakcheeva, Attanasio Cornacchia, Enrico Ciminello, Letizia Sampaolo, Paola Laricchiuta, Marina Torre	Simona Pascucci
No 107	Has Covid-19 changed the practice of audit co-ordinators in the Irish National Orthopaedic Register, and impacted on the timely collection of the data	Catriona Flaherty, Dearbhail Foy, Noreen Lynch, Katrina (Kas) Linehan, Lisa Donnelly, Micheal Bailey	Suzanne Rowley
No 32	The role of arthroplasty registry in detecting early failure of a modern uncemented total knee	Samo K Fokter, Vesna Levašič, Jakob Naranda, Nenad Gubelj, Esther Punzón-Quijorna	Samo Fokter
No 59	The “symbiosis” between high-quality register data and value-based health care. The role of local, national and international registers in the development and promotion of value-based health care projects.	Peter Cnudde, Ola Rolfson, Louisa Huxtable-Thomas	Ola Rolfson
No 89	Analysis of hip and knee patient demographics comparing patients from the Indian Joint Registry (IJR) to those recorded in the UK’s National Joint Registry (NJR)	Javahir Pachore, Ashok Rajgopal, Shrinand Vaidya, Richard Armstrong	Javahir Pachore

### 3.50 – 5.00

#### Podium Presentations: Miscellaneous & Pharmacology

5 minute presentation and 2 minute discussion

Moderators: James Huddleston and Maziar Mohaddes

No 4	The prevalence of joint replacement in Sweden	Ola Rolfson, Jonatan Nåtman, Cecilia Rogmark, Martin Sundberg, Maziar Mohaddes, Johan Kärrholm, Annette W-Dahl	Ola Rolfson
No 74	Temporal trends in comorbidity in adult elective hip and knee replacement patients in England: A national population-based cohort study from The National Joint Registry	Chris M Penfold, Andrew Judge, Adrian Sayers, Michael R Whitehouse, J Mark Wilkinson, Ashley W Blom	Michael Whitehouse
No 100	Radiographic signs and hip pain 5 years after THA: useful in predicting future revision for aseptic stem loosening? A long-term follow-up study	Anne Lübbecke, C Barea, M Zingg, N Lauper, D Hannouche, G Garavaglia	Anne Lübbecke
No 34	Trends in the cost of total knee arthroplasty — a US hospital database analysis, 2000 – 2021	Yifan Zhang, Jill W Ruppenkamp, Anshu Gupta, Chantal E Holy	Anshu Gupta

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No 3	Associations between change in pain after participation in first-line osteoarthritis intervention and progression to joint replacement surgery – A register-based study of 44 588 patients with hip or knee osteoarthritis	Kristin Gustafsson, Anna Cronström, Ola Rolfson, Eva Ageberg, Therese Jönsson	Ola Rolfson
No 33	Trends in racial disparities for total knee arthroplasty – a US hospital database analysis, 2000 – 2021	Yifan Zhang, Jill W Ruppenkamp, Anshu Gupta, Chantal E Holy	Anshu Gupta
No 105	Utilization of total joint arthroplasty by rural-urban designation in patients with osteoarthritis in a universal coverage system	Adrian Hinman, Richard Chang, Kathryn Royse, Ronald Navarro, Elizabeth Paxton, Kanu Okike	Heather Prentice
No 84	Clinical and economic outcomes of computer-assisted fluoroscopic hip navigation versus robotic assisted total hip arthroplasty (THA)	Rodrigo Diaz, Anshu Gupta, Laura Goldstein, Mina Kabiri, Jill W Ruppenkamp, Chantal E Holy	Anshu Gupta
No 63	Is bisphosphonate use associated with an increased risk of reoperation after elective total hip replacement?	Karin Svensson Malchau, Nils P Hailer, Georgios Tsikandylakis, Jonatan Nåtman, Johanna Vinblad, Maziar Mohaddes, Ola Rolfson	Ola Rolfson

**5.30 – 7.00**

**Drinks Reception**

**Venue: Atrium, Hotel Omni Mont-Royal**

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**International Society of  
Arthroplasty Registries**

## Sunday May 14<sup>th</sup>

**7.00 – 8.00 Breakfast – Room: Pierre de Coubertin**

**7.30 – 8.00 Registration**

### **8.00 – 9.00 Registries and Regulators – A Symbiotic Relationship?**

Moderators: Anne Lübbecke and Tim Wilton

Presenters:

Tim Wilton, UK (16 min): Registry perspective

Russell Schenck, US (16 min): Industry perspective

Tom Melvin, Ireland (16 min) (virtual): Regulator perspective

Discussion (12 min)

### **9.00 – 10.00**

#### **Podium Presentations: Shoulder Arthroplasty**

5 minute presentation and 2 minute discussion

Moderators: Jarret Woodmass and Michael Whitehouse

No 20	Association between same-day discharge shoulder arthroplasty and risk of adverse events in patients with American Society of Anesthesiologists Classification $\geq 3$	Michael Hachadorian, Richard N Chang, Heather A Prentice, Elizabeth W Paxton, Anita G Rao, Ronald A Navarro, Anshuman Singh	Heather Prentice
No 115	Application of Orthopaedic Data Evaluation Panel (ODEP) criteria for Shoulders for elective total shoulder arthroplasty implants used in a United States-based shoulder arthroplasty registry	Heather A Prentice, Buu N Truong, Brian H Fasig, Edward H Yian, Ronald A Navarro, Elizabeth W Paxton	Heather Prentice
No 25	The lifetime revision rate of anatomic and reverse total shoulder arthroplasty	Yushy Zhou, Avanthi Mandaleson, Chris Frampton, Marc Hirner	Yushy Zhou
No 57	The projected burden of primary total shoulder replacement surgery in Australia to 2035	Sze-Ee Soh, Connor Fisher, Richard Page, Richard de Steiger, Ilana Ackerman	Sze-Ee Soh
No 126	A comparison of revision rates for stemmed and stemless primary anatomic shoulder arthroplasty with all polyethylene glenoid components. Analysis from the Australian Orthopaedic Association National Joint Replacement Registry	David R J Gill, Sophia Corfield, Dylan Harries, Richard S Page	David Gill
No 23	Medium-term results of stemless, short stem, and conventional stem anatomic total shoulder arthroplasty	Yushy Zhou, Chris Frampton, Marc Hirner	Yushy Zhou

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**International Society of  
Arthroplasty Registries**

No 125	Does modularity reduce the rates that 1 <sup>st</sup> revision classes of primary inlay and onlay reverse shoulder arthroplasty undergo a 2 <sup>nd</sup> revision? Analysis from the Australian Orthopaedic Association National Joint Replacement Registry.	David R J Gill, Sophia Corfield, Carl Holder, Richard S Page	David Gill
No 79	Initial findings after implementation of a regional Shoulder Replacement Registry	Jarret Woodmass, Sheila McRae, Eric Bohm	Jarret Woodmass

**10.00 – 10.30**

**Coffee & Posters:Shoulder Arthroplasty and Infection**

2 minute presentation poster walk

Adjudicators: Richard de Steiger and Jörg Lützner

No 113	Application of Orthopaedic Data Evaluation Panel (ODEP) criteria for shoulders for hemiarthroplasty implants for proximal humerus fracture used in a United States-based shoulder arthroplasty registry	Heather A Prentice, Buu N Truong; Brian H Fasig, Edward H Yian, Ronald A Navarro, Elizabeth W Paxton	Heather Prentice
No 28	AAOS Shoulder and Elbow Registry assessment of inpatient and outpatient shoulder arthroplasty trends over time	Oke Anakwenze, Ronald Navarro, Joaquin Sanchez-Sotelo, Carolyn Hettrich, Mita De, Stephen Weber, Stephen Brockmeier, Grant Garrigues, Jed Kuhn, Patrick St Pierre, Samuel Taylor, Gerald Williams	Oke Anakwnze
No 64	No correlation between season of the year and risk of prosthetic joint infection after total hip arthroplasty: A cohort study on 58,449 patients with osteoarthritis from the Danish Hip Arthroplasty Register	Rajzan Joanroy, Jens K Møller, Sophie Gubbels, Søren Overgaard, Claus Varnum	Rajzan Joanroy
No 13	Influence of single vs. dual antibiotic-loaded bone cement on the infection rate after hemiarthroplasty and total hip arthroplasty for the treatment for femoral neck fracture	Dominik Szymiski, Nike Walter, Paula Krull, Oliver Melsheimer, Siegmund Lang, Alexander Grimberg, Volker Alt, Arnd Steinbrück, Markus Rupp	Dominik Szymiski
No 51	Adverse factors associated with failed treatment for infected primary total knee arthroplasty	Mohamed Yousef, Wenyun Yang, Hua Zheng, David C Ayers	David Ayers



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No 44	Global Arthroplasty Infection Association	Amit Atrey, Amir Khoshbin, David Campbell, Laurens Manning, Gavin Wood, Eric Bohm, Christopher Jones, Christopher Kandel, Joshua Davis, Hesham Abdel-Barry, Dirk Jan Moojen, Piers Yates, James P Waddell, Christopher Grayson, Bryan Springer, Ben Ricciardi, Mike Reed	Gavin Wood
No 128	Periprosthetic fractures: A rising tide of total hip arthroplasty failures noted in the American Joint Replacement Registry (AJRR) and the role of cemented stems in preventing them	Adam A Sassoon, Ayushmita De, Ryan D Stancil, Darryl F Cannady, Jeremiah Taylor, Emily Jimenez	Adam Sassoon

**10.30 – 12.00**

**Podium Presentations: Infection, Obesity & Patient Factors**

5 minute presentation and 2 minute discussion

Moderators: Michael McAuliffe and Ove Furnes

No 56	Data linkage to determine the rate of prosthetic joint infection	Richard de Steiger, J Jin, K Duszynski, N Pratt, I Harris, S Graves, M Hanly, B Gallego Luxan, L Jorm	Richard de Steiger
No 43	Periprosthetic joint infection rate in Germany – is it influenced by surgical teaching?	Arnd Steinbrück, Oliver Melsheimer, Alexander W Grimberg, Jörg Lützner	Arnd Steinbrück
No 69	The effect of surgeon volume on revision for deep periprosthetic joint infection: An analysis of 602 919 primary total knee arthroplasties	Michael J McAuliffe, Carl Holder, Patrick B O'Connor, Matthew R Belford, Darren Vaotuu, Peter Lewis	Michael McAuliffe



No 123	The epidemiology of antibiotic loaded bone cement and systemic antibiotic prophylactic usage in primary cemented or hybrid total knee arthroplasty among countries in Africa, Europe, North America, and Oceania: A register based descriptive international study 2010-2020	Tesfaye H Leta, Stein Håkon L Lygre, Anne Marie Fenstad, Stein Atle Lie, Martin Lindberg Larsen, Alma Becic Pedersen, Annette W-Dahl, Ola Rolfson, Erik Bülow, James Ashforth, Liza van Steenbergen, Rob GHH Nelissen, Sophie Corfield, Richard de Steiger, Olav Lutro, Mäkelä Keijo, Hakulinen Emmi, Jinny Willis, Mike Wyatt, Chris Frampton, Alexander Grimberg, Arnd Steinbrück, Yinan Wu, Cristiana Armaroli, Marco Molinari, Roberto Picus, Kyle Mullen, Richard Illgen, Ioan Cristian Stoica, Andreea Elena Vorovenci, Dan Dragomirescu, Håvard Dale, Christian Brand, Bernhard Christen, Joanne Shapiro, J Mark Wilkinson, Richard Armstrong, Kate Wooster, Geir Hallan, Jan-Erik Gjertsen, Richard N Chang, Heather A Prentice, Elizabeth W Paxton, Ove Furnes	Tesfaye Leta
No 110	Risk of second revision after first revision due to prosthetic joint infection after total hip arthroplasty: A register-based cohort study on 1,277 patients from the Danish Hip Arthroplasty Register	Rajzan Joanroy, Sophie Gubbels, Jens K Møller, Søren Overgaard, Claus Varum	Rajzan Joanroy
No 11	Infection after intracapsular femoral neck fracture – Does antibiotic-loaded bone cement reduce infection risk after hemiarthroplasty and total hip arthroplasty? – Data from the German Arthroplasty Registry	Dominik Szyski, Nike Walter, Paula Krull, Oliver Melsheimer, Alexander Grimberg, Volker Alt, Arnd Steinbrück, Markus Rupp	Dominik Szyski
No 75	Obesity and revision surgery, mortality and patient reported outcomes after primary knee replacement surgery in the National Joint Registry	Jonathan Thomas Evans, Sofia Mouchti, Ashley William Blom, J Mark Wilkinson, Michael Richard Whitehouse, Andrew Beswick, Andrew Judge	Jonathan Evans
No 39	Total knee arthroplasty and bariatric surgery: Change in BMI and risk of revision depending on sequence of surgery	Perna Ighani Arani, Per Wretenberg, Erik Stenberg, Johan Ottosson, Annette W-Dahl	Perna Ighani Arani

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No 15	Creation of a patient-specific total hip arthroplasty periprosthetic fracture risk calculator	Cody C Wyles, Hilal Maradit-Kremers, Kristin M Fruth, Dirk R Larson, Bardia Khosravi, Pouria Rouzrokh, Quinn J Johnson, Daniel J Berry, Rafael J Sierra, Michael J Taunton, Matthew P Abdel	Cody Wyles
No 99	Level of physical activity after total hip arthroplasty and risk of revision surgery in patients aged under 65	Elena Zaballa, Stefania D'Angelo, Christophe Barea, Georgia Ntani, Didier Hannouche, Cyrus Cooper, Anne Lübbecke, Karen Walker-Bone	Anne Lübbecke
No 70	A comparison of comorbidity measures for predicting mortality after elective hip and knee replacement: A cohort study of data from the National Joint Registry in England and Wales	Chris M Penfold, Michael R Whitehouse, Ashley W Blom, Andrew Judge, J Mark Wilkinson, Adrian Sayers	Michael Whitehouse
No 98	External validation of simple-to-use preoperative risk prediction models for early (6 months) adverse events following total hip arthroplasty	Mikko S Venäläinen, Valtteri J Panula, Erik Bülow, Carl Holder, Antti P Eskelinen, Emmi Peltonen, Mikko J Manninen, Jukka S Kettunen, Ari-Pekka Puhto, Anna I Vasara, Ola Rolfson, Stephen E Graves, Keijo T Mäkelä, Laura L Elo	Mikko S Venäläinen

**12.00 – 12.45****Lunch****12.45 – 1.30****Podium Presentations: Hip Fracture**

5 minute presentation and 2 minute discussion

Moderators: Gavin Wood and Ola Rolfson

No 117	Risk factors for postoperative morbidity and mortality in elderly hip fracture patients prior to surgery	Vimal Desai, Priscilla Chan, Kathryn E Royse, Ronald A Navarro, Heather A Prentice, Glenn R Diekmann, Kent T Yamaguchi, Liz W Paxton, Chunyuan X Qiu	Matthew Kelly
No 118	Optimizing time to surgery for hip fracture repair in the elderly to reduce mortality	Chunyuan X Qiu, Priscilla H Chan, Kathryn E Royse, Ronald A Navarro, Glenn R Diekmann, Kent T Yamaguchi, Elizabeth W Paxton, Vimal Desai	Matthew Kelly

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No 37	Comparable revision rates for bipolar and unipolar hemiarthroplasties but higher revision rates in uncemented stem hemiarthroplasty	Esther M Bloemheugel, Liza N van Steenberg, Bart A Swierstra, B Willem Schreurs	Liza van Steenberg
No 120	Associations between SSRIs and adverse events following hip fracture arthroplasty	Lynn Lethbridge, Matt Nagle, Emily Johnson, C Glen Richardson, Michael J Dunbar	Lynn Lethbridge
No 12	Mortality and complications after surgical treatment of femoral neck fractures by hemiarthroplasty in Germany - An analysis from the German Endoprosthesis Registry (EPRD)	Nike Walter, Dominik Szymiski, Oliver Melsheimer, Alexander Grimberg, Volker Alt, Arnd Steinbrück, Markus Rupp	Dominik Szymiski
No 45	Examining trends in Canada for cemented fixation for hemiarthroplasty for fracture	Carolyn Sandoval, Ricky Chin, Michael Turner, Jason R Werle, Eric Bohm	Carolyn Sandoval

**1.30 – 2.15****Podium Presentations: Machine Learning**

5 minute presentation and 2 minute discussion

Moderators: Heather Prentice and Adrian Sayers

No 38	Prediction of arthroplasty revision surgery: Competing risk analyses with machine learning or conventional modelling	Jacobien H F Oosterhoff, Anne A H de Hond, Rinne M Peters, Liza N van Steenberg, Juliette C Sorel, Wierd P Zijlstra, Rudolf W Poolman, Paul C Jutte, Gino M M J Kerkhoffs, Hein Putter, Ewout W Steyerberg, Job N Doornberg	Liza van Steenberg
No 102	Measuring and predicting 4-year progression of osteoarthritis with machine learning	Seong Jun Jang, Kyle N Kunze, Chris Anderson, David J Mayman, Seth A Jerabek, Jonathan M Vigdorich, Peter K Sculco, Mark Alan Fontana	Mark Fontana
No 21	Developing and evaluating <i>the smart choice (knee)</i> : A patient-focused tool to predict health-related quality of life outcomes after total knee arthroplasty	Yushy Zhou, Michelle Dowsey, Tim Spelman, Peter Choong, Chris Schilling	Yushy Zhou
No 16	THA-Net: A deep learning solution for next generation templating and patient-specific surgical execution	Cody C Wyles, Pouria Rouzrokh, Bardia Khosravi, John P Mickley, Bradley J Erickson, Mark W Pagnano, Matthew P Abdel, Michael J Taunton	Cody Wyles



No 17	Creating high fidelity synthetic pelvis radiographs using generative adversarial networks: Unlocking the potential of deep learning models without patient privacy concerns	Cody C Wyles, Bardia Khosravi, Pouria Rouzrokh, John P Mickley, A Noelle Larson, Hillary W Garner, Benjamin M Howe, Bradley J Erickson, Michael J Taunton	Cody Wyles
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**2.15 – 2.45****Coffe & Posters: Obesity, Hip Fracture, Machine Learning**

2 minute presentation poster walk

Adjudicators: Richard de Steiger and Jörg Lützner

No 36	Patient factors influencing the treatment effects for total hip arthroplasty (THA) and knee arthroplasty (TKA) in the SIRIS Registry – Analysis of the SIRIS data of Kanton Zurich	Christian Brand, Joerg Huber, Lilianna Bolliger, Bernhard Christen, Viliam Zdravkovic, Martin Beck	Joerg Huber
No 116	Risk factors for postoperative morbidity and mortality in elderly hip fracture patients on anticoagulation medications prior to surgery	Vimal Desai, Priscilla Chan, Kathryn E Royse, Ronald A Navarro, Heather A Prentice, Glenn R Diekmann, Kent T Yamaguchi, Liz W Paxton, Chunyuan X Qiu	Matthew Kelly
No 62	Preoperative Oxford hip score as a predictor of risk of revision and death after hip replacement surgery using meta-parametric neural networks	Fabio Luis de Mello, Visakan Kadirkamanathan, J Mark Wilkinson	No presenter
No 127	Transfer learning strategy to overcome partial availability of pre-operative PROMs data in estimation of hip and knee revision	Fabio Luis de Mello, Visakan Kadirkamanathan, J Mark Wilkinson	No presenter

**2.45 – 4.00****Podium Presentations: Outcomes 1**

5 minute presentation and 2 minute discussion

Moderators: Michael Morlock and Ove Furnes

No 60	Dislocation after elective THA	Peter Cnudde, Jonatan Nåtman, Ola Rolfson, Nils P Hailer	Ola Rolfson
No 95	The association between surgeon volume and patient outcomes after elective shoulder replacement surgery	Epaminondas Markos Valsamis, Gary S Collins, Rafael Pinedo-Villanueva, Michael Whitehouse, Adrian Sayers, Jonathan L Rees	Adrian Sayers

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No 93	The association between surgeon grade and risk of revision following total hip replacement: an analysis of National Joint Registry data	Tim J Fowler, Alex L Aquilina, Mike Reed, Ashley W Blom, Adrian Sayers, Michael R. Whitehouse	Adrian Sayers
No 67	What is the learning curve for total ankle arthroplasty?	Peter Stavrou, Dylan Harries, Michelle Lorimer, Sophie Corfield	Peter Stavrou
No 119	Surgeon selection of new total knee arthroplasty implants and risk of revision: A cohort study	Heather A Prentice, Adrian D Hinman, Nithin C Reddy, Matthew P Kelly, Elizabeth W Paxton	Matthew Kelly
No 77	How long do revised and multiply revised hip replacements last? A retrospective observational study of the National Joint Registry	Kevin Deere, Michael R Whitehouse, Setor K Kunutsor, Adrian Sayers, James Mason, Ashley W Blom	Jonathan Evans
No 78	How long do revised and multiply revised knee replacements last? An analysis of the National Joint Registry	Kevin Deere, Michael R Whitehouse, Setor K Kunutsor, Adrian Sayers, Andrew J Price, James Mason, Ashley W Blom	Jonathan Evans
No 68	Does the use of technology (computer navigation/robotics) diminish total knee revision rates when optimal prosthetic combinations are selected?	Michael J McAuliffe, Christopher Vertullo, Jon A Anderson, Dylan Harries	Michael McAuliffe
No 129	Collared femoral stem design for total hip arthroplasty reduces the risk of periprosthetic femur fracture in patients 65 years or older: An analysis from the American Joint Replacement Registry	Mackenzie Kelly, Antonia F Chen, Sean P Ryan, Zachary Working, Ayushmita De, Kyle Mullen, Kimberly Porter, Ryland Kagan	Mackenzie Kelly
No 61	Merging data from the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR) and the Dutch Arthroplasty Register (LROI): A comparison of patient, prosthesis and procedure characteristics as well as revision rates of uncemented short-stemmed total hip arthroplasties performed between 2009-2021.	Mirthe H W van Veghel, Gerjon Hannink, Peter L Lewis, Carl Holder, Liza N van Steenberg, B Willem Schreurs	Mirthe van Veghel

**4.00 – 4.15****ISAR Update – Eric Bohm and Anne Lubbeke****4.15 – 5.00****ISAR Business meeting****7.00****Congress dinner****Venue: Pierre de Coubertin, Hotel Omni Mont-Royal**

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## Monday May 15<sup>th</sup>

**7.00 – 8.00**                      **Breakfast – Room: Pierre de Coubertin**

**8.00 – 9.00**                      **PROMs versus Revision Risk: Pick One? Pick Both?**

5 minute presentation and 2 minute discussion

Moderators: Jesse Wolfstadt and Brian Hallstrom

- 8.00-8.15                      The Use of PROMs to Promote Quality Improvement: The MARCQI Experience (Brian Hallstrom)
- 8.15-8.22                      Abstract No 111 – Patient reported outcomes vary by TKA implant design (Richard Hughes)
- 8.22-8.29                      Abstract No 124 – Propensity score matching to evaluate the improvement of KOOS-JR with applications to selected devices: MARCQI five year study (2017-2021) (Richard Hughes)
- 8.30-9.00                      Panel discussion – What should we be reporting and measuring? What’s more important: PROMs or implant survivorship?  
**Invited panelists:** David Ayers, Annette Dahl, Ola Rolfson, Adrian Sayers and Anne Lübbecke

**9.00 – 9.55**                      **Podium Presentations: PROMs 1**

5 minute presentation and 2 minute discussion

Moderators: Jarret Woodmass and Maziar Mohaddes

No 24	Comparing functional outcomes after total hip and knee arthroplasty by patient response to registry questionnaires	Yushy Zhou, Cade Shadbolt, Sharmala Thuraisingam, Michelle Dowsey, Peter Choong, Chris Schilling	Yushy Zhou
No 27	Calculating and comparing the minimal clinically important difference for veterans-rand 12 utility score in total knee arthroplasty	Yushy Zhou, Cade Shadbolt, Siddarth Rele, Tim Spelman, Michelle Dowsey, Peter Choong, Chris Schilling	Yushy Zhou
No 91	Socio-economic inequalities in patient-reported outcome measures of Dutch primary hip and knee arthroplasty patients for osteoarthritis	Joshua M Bonsel, Max Reijman Jan A N Verhaar, Liza N van Steenberg, Mathieu F Janssen, Gouke J Bonsel	Max Reijman

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No 42	Effect of pre-operative self-reported anxiety and/or depression on patient-reported outcomes in hip and knee replacement patients in Ontario, Canada	Shannon Weir-Seeley, Clarissa Encisa, Robin Santiago, Michael Turner, Colleen Bedford, James Waddell	Shannon Weir-Seeley
No 80	Similar patient-reported outcome measures after direct superior, anterior and posterolateral approach total hip arthroplasty: 1 year follow-up of 37,976 primary THAs in the Dutch Arthroplasty Registry	Bart van Dooren, Rinne M Peters, Harmen B Ettema, B Wim Schreurs, Liza N van Steenberg, Stefan B T Bolder, Wierd P Zijlstra	Bart van Dooren
No 106	Feasibility of international comparisons of patient-reported outcome measures for hip and knee replacement surgery	Micheline Turnau, Candan Kendir, Katherine de Bienassis, Candy Chow, Krysia Walczak, Michael Turner, Eric Bohm, Brian Hallstrom, J Mark Wilkinson, Anne Lübbecke-Wolff	Michael Turner
No 58	Minimally clinically important changes for the Oxford Shoulder Score in patients undergoing primary total shoulder replacement: Data from the Australian Orthopaedic Association National Joint Replacement Registry Patient-Reported Outcomes Measures Program	Sze-Ee Soh, Yiyang Fang, Ian Harris, Richard Page, Kara Cashman, Michelle Lorimer, Emma Heath, Ilana Ackerman	Sze-Ee Soh

**10.00 – 10.45**

**Keynote Speaker**(45 min): Jean François Menard

Title: Train Your brain like an Olympian

Introduced by: Eric Bohm

**10.45 – 11.10**

**Coffee & Posters (Outcomes)**

2 minute presentation poster walk

Adjudicators: Richard de Steiger and Jörg Lützner

No 18	Selective use of Dual mobility cups does not reduce the risk of aseptic revision in primary total hip arthroplasty when compared to ceramic or metal on cross-linked polyethylene articulations	Monti Khatod, Priscilla H Chan, Heather A Prentice, Elizabeth W Paxton, Nithin C Reddy, Matthew P Kelly	Matthew Kelly
No 122	Reasons for revision of dual-mobility-cups vs standard cups in primary total hip arthroplasty in Switzerland	Christian Brand, Lilianna Bolliger, Bernhard Christen, Villiam Zdravkovic, Martin Beck	Martin Beck



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No 19	Can dual mobility constructs lower the risk of aseptic re-revision in revision total hip arthroplasty when compared to metal or ceramic-on-highly cross-linked polyethylene and constrained liner articulations?	Monti Khatod, Priscilla H Chan, Heather A Prentice, Elizabeth W Paxton, Nithin C Reddy, Matthew P Kelly	Matthew Kelly
No 50	One-year total knee arthroplasty revision in the US: Incidence and outcome	David C Ayers, Wenyun Yang, Hua Zheng, Mohamed Yousef	David Ayers
No 97	Association of implant positioning with patient satisfaction scores in hip arthroplasty	James Anthony Ashforth, Antoine Smith Dryden Dymond	James Anthony Ashforth
No 40	Differences in early recovery following unicompartmental knee replacement with daycase and standard care pathways, assessed using Novel Patient-Reported Measures	Louise H Strickland, Azmi Rahman, Martina Zagaria, David W Murray, Hemant G Pandit, Crispin Jenkinson	Martina Zagaria

**11.10 – 12.00****Podium Presentations: PROMs 2**

5 minute presentation and 2 minute discussion

Moderators: Richard Hughes and John Mckie

No 52	Do pain relief and functional gain vary by implant manufacturer after primary TKA?	David C Ayers, Adam Green, Wenyun Yang, Hua Zheng, Kyle Alpaugh, Mohamed Yousef	David Ayers
No 46	The prevalence and predictors of patient dissatisfaction 5-years after primary total hip arthroplasty	Forrest Rackard, Mohamed Yousef, Hua Zheng, Wenyun Yang, David C Ayers	Forrest Rackard
No 35	Benefit of total hip arthroplasty (THA)/total knee arthroplasty (TKA) for the patients of Kanton Zurich – Individual treatment effects measured in the Swiss Implant Registry (SIRIS)	Joerg Huber, Christian Brand, Martin Beck, Lilianna Bolliger, Viliiam Zdravkovic, Bernhard Christen	Joerg Huber
No 5	Comparison of prevalence and overlap of different definitions of poor response after total knee arthroplasty using the Dutch Arthroplasty Register and the Osteoarthritis Initiative database	M E M Te Molder, M M Dowsey, J M H Smolders, L N Van Steenberg, C H M Van den Ende, P J C Heesterbeek	Liza van Steenberg

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No 65	Association of pre-existing mental disorders with quality of life in primary total hip and knee arthroplasty	Siddharth Rele, Jesse T Young, Cade Shadbolt, Daniel Gould, Peter FM Choong, Michelle M Dowsey	Siddharth Rele
No 101	One-year after total joint arthroplasty: Patient-reported outcome measure thresholds using the patient acceptable symptom state question as an anchor	Mihir Dekhne, Mark Alan Fontana, Daniel A Driscoll, Sohun Pandey, Stephen Lyman, Alexander McLawhorn, Catherine H MacLean	Mark Fontana
No 121	Defining success: Comparison of different methods to report patient reported outcome measure-based quality for lower extremity total joint arthroplasty (TJA)	Daniel A Driscoll, Mihir Dekhne, Stephen Lyman, Vinicius C Antao, Catherine MacLean, Alexander S. McLawhorn	Vinicius Antao

**12.00 – 12.30****Lunch****12.30 – 1.00****Fellowship updates**

Moderator: Eric Bohm

Presenters: Lina Holm Ingelsrud (virtual), Liza van Steenberg, Peter Cnudde (virtual) (5 minute presentation &amp; 5 minute discussion)

**1.00 – 2.00****Podium Presentations: Outcomes 2**

5 minute presentation and 2 minute discussion

Moderators: Annette W-Dahl and Claus Varnum

No 94	The association between surgeon grade and risk of revision following knee replacement: an analysis of National Joint Registry data	Tim J Fowler, Ashley W Blom, Adrian Sayers, Michael R Whitehouse	Adrian Sayers
No 26	The effect of total knee arthroplasty on mortality: Is there an optimal age for surgery?	Yushy Zhou, Chris Frampton, Marc Hirner	Yushy Zhou
No 103	Sex-specific implant fixation can reduce revision rates in total hip arthroplasty:- Evidence from the Swiss National Joint Registry	Andreas Ladurner, Vilijam Zdravkovic, Karlmeinrad Giesinger	Andreas Ladurner
No 104	Tourniquet use in total knee replacement - A report from the Norwegian Arthroplasty Register (NAR) with 3 years follow-up (2018-2021).	Ove Furnes, Michelle Khan, Geir Hallan, Jan-Erik Gjertsen, Mona Badawy, Otto Schnell Husby, Paul Johan Høl, Stein Håkon Låstad Lygre	Ove Furnes

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No 108	Revision rates after primary THA in registries: Systematic review and meta-analysis of selected hip stems and cups	Anne Lübbecke, James Smith, Christophe Barea, Lotje A Hoogervorst, Perla J Marang-van de Mheen, Christophe Combescure	Anne Lubbecke
No 14	Comparison of mortality rate, septic and aseptic revisions in total hip arthroplasties for osteoarthritis and femoral neck fracture – An analysis of the German Arthroplasty Registry (EPRD)	Markus Rupp, Nike Walter, Paula Krull, Oliver Melsheimer, Melanie Schindler, Alexander Grimberg, Volker Alt, Arnd Steinbrück, Dominik Szymiski	Markus Rupp
No 112	Temporal trends in revision hip arthroplasty – hip revisions reported to the Swedish Arthroplasty Register during years 2004–2021	Maziar Mohaddes, Ola Rolfson, Cecilia Rogmark, Johan Kärrholm	Maziar Mohaddes
No 6	Distal femoral replacement for periprosthetic fractures is associated with high revision rates and mortality	Jörg Lützner, Oliver Melsheimer, Arnd Steinbrück, Anne Postler	Jörg Lützner

**2.00 – 3.00**

**Best Paper Session**

Moderator: Ola Rolfson

**3.00 – 3.30**

**Working Group Updates**

Moderator: Eric Bohm

Presenters:

IPL – Eric Bohm;

Benchmarking/Signal Detection/Statistics – Adrian Sayers or Richard de Steiger

PROMs – Brian Hallstrom

Education – Anne Lubbecke Wolff

**3:30 – 3:40**

**Update on the next ISAR Congress in Hamburg**

**3.40 – 4.00**

**Awards / Wrap Up**