Program – 10th Annual International Congress of Arthroplasty Registries (2nd Annual Virtual Congress), 11-13 November 2021

The program will commence Thursday in USA/Europe and Friday morning in Australia. All times are Central European time (CET). Presenters are marked bold and underlined.

Thursday 11th/Friday 12th November

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8.00-8.30pm Welcome to Virtual Zoom Meeting – Søren Overgaard

Update from ISAR Working Groups
- Benchmarking: Adrian Sayers
- PROMs: Brian Hallstrom
- Signal Detection: Richard de Steiger
- Statistics/methods: Nicole Pratt
- Education: Anne Lübbeke

8.30-9.30pm Hip fracture, pharmacy, socio-economic status
Moderators: Cecilia Rogmark and Ove Furnes
4 minutes per presentation

1. Nails or plate for extracapsular hip fractures – comparison of reoperation rates. An observational cohort study based on data from the Swedish Fracture Register and the Swedish Arthroplasty Register
   **Helmi-Sisko Pyrhönen**, Johan Lagergren, Olof Wolf, Alicja Bojan, Sebastian Mukka, Michael Möller, Cecilia Rogmark

2. Dual mobility cup versus conventional total hip arthroplasty for femoral neck fractures: An international multi-registry study
   John E Farey, James Masters, Alana R Cuthbert, Pernille Iversen, Liza van Steenbergen, Heather A Prentice, Sam Adie, Adrian Sayers, Michael R Whitehouse, Elizabeth W Paxton, Matthew L Costa, Søren Overgaard, Cecilia Rogmark, Ola Rolfson, **Ian A Harris**
Dislocation after total hip arthroplasty for acute hip fracture. The effect of approach, headsize or dual-mobility? What to avoid?
Peter Cnudde, Jonatan Nåtman, Nils P Hailer, Ammar Jobory, Cecilia Rogmark

Association between femoral stem type and the risk of aseptic revision following hemiarthroplasty
Kanu Okike, Priscilla H Chan, Nithin C Reddy, Elizabeth W Paxton, Heather A Prentice

Anticoagulation use and complications post joint-replacement: An Australian Orthopaedic Association National Joint Replacement Registry data linkage study
Nicole Pratt, Aarti Gulyani, Katherine Duszynski, Richard de Steiger, Maria Inacio, Ilana Ackerman, Louisa Jorm, Michelle Lorimer, Stephen E Graves, Ian Harris

Q & A: 8 minutes

Opioid prescribing patterns after arthroplasty of the knee and hip: A nationwide cohort study from 2013-2018
H E van Brug, R G H H Nelissen, W M Lijfering, L N van Steenbergen, F R Rosendaal, E L A van Dorp, M L Bouvy, A Dahan, M G J Gademan

Opioid use before and after revision knee arthroplasty for “pain without loosening” versus “aseptic loosening” – a Danish nationwide study
Kristine Bollerup Arndt, Henrik M Schröder, Anders Troelsen, Martin Lindberg-Larsen

Socioeconomic status and use of analgesic drugs before and after primary total hip arthroplasty: A population based cohort study of 103,209 patient undergoing primary total hip arthroplasty during 1996-2018
André Nis Klenø, Martin Bækgaard Stisen, Nina McKinnon Edwards, Inger Mechlenburg, Alma Becic Pedersen

The association between socioeconomic status and the 90-day risk of any infections after a total hip arthroplasty: A registry-based cohort study of 103,901 patients with osteoarthritis
Nina M Edwards, Claus Varnum, Rob G H H Nelissen, Søren Overgaard, Alma B Pedersen

Progression to joint replacement surgery among patients with hip and knee osteoarthritis. A study from the Better Management of Patients with Osteoarthritis Register
Kristin Gustafsson, Joanna Kvist, Caddie Zhou, Marit Eriksson, Ola Rolfson

Q & A: 8 minutes
9.30-9.45pm  Break

9.45-10.45pm  PROMs, Shoulders
Moderators: Jeppe Veilgaard Rasmussen and Ilana Ackerman
4 minutes per presentation

1  Patient reported outcome and body mass index in medial uni-compartmental knee arthroplasty
   Annette W-Dahl, Martin Sundberg, Otto Robertsson

2  Minimal clinically important differences for the HOOS-12 and KOOS-12 instruments:
   Data from the Australian Orthopaedic Association National Joint Replacement Registry
   Patient-Reported Outcomes Measures Program.
   Ilana Ackerman, Sze-Ee Soh, Kara Cashman, Emma Heath, Michelle Lorimer, Stephen Graves, Ian Harris

3  Can knee-specific and generic patient-reported outcome scores predict early revision knee replacement?
   Ilana Ackerman, Ian Harris, Kara Cashman, Michelle Lorimer, Neville Rowden, Stephen Graves

4  Patient reported outcomes after joint replacement: Results from the AOANJRR
   Emma Heath, Ilana Ackerman, Kara Cashman, Michelle Lorimer, Stephen Graves, Ian Harris

5  Between-hospital and between-surgeon variation in thresholds for hip and knee replacement
   Carl Holder, Emma Heath, Kara Cashman, Ilana Ackerman, Michelle Lorimer, Stephen Graves, Ian A Harris

   Q & A: 8 minutes

6  Primary inlay reverse shoulder arthroplasty has a higher rate of revision than onlay reverse shoulder arthroplasty: Analysis from the Australian Orthopaedic Association National Joint Replacement Registry
   David R J Gill, Stephen D Gill, Sophia Rainbird, Carl Holder, Richard S Page

7  Between-hospital variation in revision rates following primary shoulder arthroplasty in the Netherlands: A registry analysis including 13,104 patients and 87 hospitals
   Lotje A Hoogervorst, Peter van Schie, Jochem Nagels, Rob GHH Nelissen, Perla J Marang-van de Mheen
Cross-linked polyethylene in primary, standard stemmed shoulder arthroplasty is associated with a lower revision rate compared to non-cross-linked polyethylene: updated results from the AOANJRR

Richard Page, Angela Alder-Price, Stephen Graves, Richard de Steiger, Sophie Rainbird, Yi Peng, Chelsea Dyer, Michelle Lorimer, Stephen Gill

Risk factors for early return to care following same-day discharge primary shoulder arthroplasty

Matthew D McElvany, Heather A Prentice, Laurie G Barovick, Jason R Kang, Ronald A Navarro, Mark T Dillon

Primary shoulder arthroplasty after proximal humeral fracture. Outcome related to waiting time to surgery, and subsequent to a fracture sequelae, analyzed from the Swedish shoulder registry.

Yilmaz Demir, Elinor Kylberg, Henrik Molin, Björn Salomonsson

Q & A: 8 minutes

10.45-11.00pm International Prostheses Library
Presenters and moderators: Mita De and Benjamin J Imlay

11.00-11.30pm A. Mini-symposium and Panel Discussion
Title: Predictive modelling: an introduction
Presenters and moderators: Banne Nemeth and Erik Bülow

B. Mini-symposium and Panel Discussion
Title: Registry data quality and validation: How good is it and should there be an ISAR standard?
Presenters and moderators: Anne Lübbeke-Wolff and Martyn Porter
Friday 12\textsuperscript{th}/Saturday 13\textsuperscript{th} November

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8.00-8.30pm  Symposium: 20 minutes presentation followed by 10 minutes discussion  
Title: Retirement of statistical significance testing  
Moderators: Alma B. Pedersen and Anne Marie Fenstad

8.30-9.30pm  Poster Walk 1: COVID, Knee, Hip, Hip fracture, Infection  
Moderator: Liz Paxton and Ola Rolfson  
2 minutes per pitch

1. Increased risk of revision with posterior stabilized total knee arthroplasty: An analysis from the American Joint Replacement Registry  
\textbf{Jamil Kendall, Christopher E Pelt, Patrick Yep, Kyle Mullen, Benjamin Imlay, Ryland Kagan}

2. Impact of COVID-19 on elective and urgent hip and knee arthroplasty care in the Netherlands  
\textbf{Liza N van Steenbergen, V Velhorst, RGHH Nelissen, BW Schreurs}

3. Outcome of revision primary total conventional hip replacement: Results from a large national joint registry  
\textbf{Richard de Steiger, Peter L Lewis, Stephen E Graves, Ian Harris, Michelle Lorimer}

4. Femoral head size in total hip arthroplasty and revision risk for instability in Canada  
\textbf{Carolyn Sandoval, Catherine Yu, Alina Dragan, Michael Terner, Greg Webster, Eric Bohm, Michael Dunbar}

5. In total hip arthroplasty 36mm femoral heads reduce early dislocations without increasing long term revision rates regardless of acetabular component size: An analysis of 188,591 primary total hip replacements  
\textbf{Wayne Hoskins, Roger Bingham, Sophie Rainbird, Carl Holder, James Stoney}
6  Mortality and revision rates of patients 80 years and older in primary total hip arthroplasty for osteoarthritis. Report of 43,053 cases of the Dutch Arthroplasty Register (LROI)
   *Esther M Bloemheuvel, Liza N van Steenbergen, Bart A Swierstra*

   **Q & A: 7 minutes**

7  Total Knee Replacements - Implant brand portfolios, the potential for camouflage of data and the role of ODEP
   *Jonathan Phillips, Keith Tucker*

8  First report on hip arthroplasty in the European region Tyrol – South Tyrol – Trentino - operation years 2013 to 2017
   *Irmgard Delmarko, Alois Harrasser, Hermann Leitner, Roberto Picus, Cristiana Amaro, Silvano Piffer – Presenter: Sabrina Neururer*

9  Risk of revision following hip fracture fixation using Synthes trochanteric fixation nail (TFN) versus trochanteric fixation nail advanced (TFNA): A cohort study of 7,979 patients
   *L Henry Goodnough, Richard N Chang, Brian H Fasig, Heather A Prentice, Elizabeth W Paxton, Kanu M Okike, Andrew S Fang*

10 Dislocation after arthroplasty for acute hip fracture in patients with a known neurological condition. Hemiarthroplasty, conventional total hip or dual-mobility?
    *Peter Cnudde, Jonatan Nåtman, Nils P Hailer, Cecilia Rogmark*

11 Removed from program

12 The effect of patella resurfacing during total knee arthroplasty on patient-reported outcomes, a causal analysis
   *Ian A Harris, Kara Cashman, Michelle Lorimer, Nicole Pratt, Peter Lewis, Stephen E Graves, Blanca Gallego Luxan*

   **Q & A: 7 minutes**

13 Outcome of revision primary total knee replacement: results from a large national joint registry
   *Peter L Lewis, Richard de Steiger, Stephen Graves, Ian Harris, Michelle Lorimer*
14 Variation and trends in reasons for knee replacement revision: A multi-registry study
**Peter L Lewis**, Otto Robertsson, Stephan E Graves, Elizabeth W Paxton, Heather A Prentice, Annette W-Dahl

15 A registry comparison of unicompartmental knee replacement bearing designs
**Peter Lewis**, Arun Kannan, Chelsea Dyer, William A Jiranek, Stephen McMahon

16 Low lifetime risk of revision knee replacement in Australia: A population-level analysis
**Ilana Ackerman**, Ljoudmila Busija, Michelle Lorimer, Richard de Steiger, Stephen E Graves

17 Prosthesis survival after revision knee arthroplasty for “pain without loosening” versus “aseptic loosening” – a Danish nationwide study
**Kristine Bollerup Arndt**, Henrik M Schröder, Anders Troelsen, Martin Lindberg-Larsen

18 No effect of fixation type on early and late mortality after total knee arthroplasty: A Dutch arthroplasty register study
**Casper R Quispel**, Jeroen C van Egmond, Maarten M Bruin, Anneke Spekenbrink-Spooren, Hennie Verburg, Jantsje H Pasma

Q & A: 7 minutes

Poster walk 2
Moderator: Richard de Steiger and Claus Varnum
2 minutes per pitch

1 A classifier neural network for probabilistic estimation of postoperative PROMs
**Fabio Luis de Mello**, Visakan Kadirkamanathan, J Mark Wilkinson

2 An investigation of bias in the assessment of mortality risk with total resurfacing hip replacement compared to total conventional hip replacement: An Australian Orthopaedic Association National Joint Replacement Registry linkage study
**Nicole Pratt**, Mhairi Kerr, Katherine Duszynski, Aarti Gulyani, Richard de Steiger, Ian Harris, Maria Inacio, Ilana Ackerman, Louisa Jorm, Michelle Lorimer, Stephen E Graves

3 A comparison of survival models for prediction of eight-year revision risk following total knee and hip arthroplasty
**Alana R Cuthbert**, Lynne C Giles, Gary Glonek, Lisa M Kalisch Ellett, Nicole L Pratt
Data linkage of two national databases: Lessons learned from linking the Dutch arthroplasty register with the Dutch Foundation for Pharmaceutical Statistics

**H E van Brug, F R Rosendaal, L N van Steenbergen, R G H H Nelissen, M G J Gademan**

Validating a national orthopaedic implant register

**Shane P Russell, James Broderick, Sean O'Dea, Eoin Fahey, James Cashman**

Semi-parametric stochastic mixed effect model with applications to pain score progression following joint replacement: Michigan Arthroplasty Registry Quality Initiative

**Thomas (Huiyong) Zheng, Richard E Hughes, Tae Kim, Qi Zhu, Brian R Hallstrom**

Q & A: 7 minutes

Estimation of competing revision risks after hip replacement surgery using neural networks

**Fabio Luis de Mello, Visakan Kadirkamanathan, J Mark Wilkinson**

Indian joint registry step forward

**J A Pachore**

Developing a prediction model for total knee replacement surgery for people with osteoarthritis in general practice

**Sharmala Thuraisingam, Patty Chondros, Jo-Anne Manski-Nankervis, Tim Spelman, Peter Choong, Jane Gunn, Michelle Dowsey**

First prescriptions and prescribers after knee and hip arthroplasty: A nationwide cohort study from 2013-2018

**H E van Brug, R G H H Nelissen, L N van Steenbergen, F R Rosendaal, E L A van Dorp, M L Bouvy, A Dahan, M G J Gademan**

Are responders to patient health surveys representative of those invited to participate? An analysis of the patient-reported outcome measures pilot from the Australian Orthopaedic Association National Joint Replacement Registry

**Ian A Harris, Kara Cashman, Ilana Ackerman, Stephen Graves**

Association between patient factors and coverage of a national patient-reported outcome measures program involving people undergoing joint arthroplasty

**Ian A Harris, Yi Peng, Ilana Ackerman, Stephen Graves**

Q & A: 7 minutes
Optimizing presentation of revision risk information to orthopaedic surgeons
*Richard E Hughes, Tae Kim, Brian Hallstrom*

Racial disparities in rates of revision and use of premium surgical features in total knee arthroplasty, a national registry study
*Alex Upfill-Brown, Noah Paisner, Patrick C Donnelly, Ayushmita De, Adam Sassoon*

Association between race/ethnicity and 90-day emergency department visits in patients undergoing elective total knee arthroplasty in a universally insured population
*Adrian D Hinman, Kathryn E Royse, Priscilla H Chan, Elizabeth W Paxton, Ronald A Navarro*

Critical shoulder angle is correlated to failure of anatomic total shoulder arthroplasty
*Eloy Tabeayo, Priscilla Chan, Heather A Prentice, Mark T Dillon, Karimdad Otarodifard, Anshuman Singh*

Does the setting of shoulder arthroplasty influence revision rates? A comparison of shoulder arthroplasty outcomes between settings at a national level.
*Nicholas Paltoglou, Richard Page, Stephen Graves, Sophie Rainbird, Michelle Lorimer, Stephen Gill*

Implant survival of primary shoulder arthroplasty, a detailed analysis with minimum 8-year follow-up in Swedish shoulder arthroplasty registry.
*Kristofer Hallberg, Mikael Yilmaz, Axel Jakobsson, Björn Salomonsson*

**Q & A: 7 minutes**

9.30-9.45pm  Break

9.45-11.00pm  COVID, Infection, Methods
Moderators: Rob Nelissen and Mark Wilkinson
4 minutes per presentation

1  Impact of COVID-19 lockdown on the quality of life in hip and knee arthroplasty patients in the Netherlands
*Joshua M Bonsel, Lichelle Groot, Abigael Cohen, Anneke Spokenbrink-Spoooren, Jan AN Verhaar, Maaike G J Gademan, Gouke J Bonsel, Max Reijman*

2  COVID-19 impact on joint replacement surgery in Australia – an Australian Orthopaedic Association National Joint Replacement Registry study
**10th Annual International Congress of Arthroplasty Registries – 2nd Virtual Congress**

Revised Nov 10, 2021

**Stephen Gill**, Stephen Graves, Michelle Lorimer, Richard de Steiger, Ilana Ackerman, Andrew Ellis, Richard Page

**3** Impact of COVID-19 on hip and knee replacements in Canada

**Carolyn Sandoval**, Nilpa Patel, Alina Dragan, Michael Terner, Greg Webster, Michael Dunbar, Eric Bohm

**4** Metal-on-polyethylene implants are associated with a higher risk of PJI compared to ceramic-on-polyethylene

**Emanuele Chisari**, Christian Ong, Javad Parvizi, Chad Krueger

**5** Debridement, antibiotics and implant retention (DAIR) and its utilization to treat periprosthetic joint infections


**Q & A: 5 minutes**

**6** Is there harm in debridement, antibiotics, and implant retention (DAIR) versus 2-stage revision in the treatment of periprosthetic knee infection? Experiences within a large US healthcare system.

**Stephen J Huffaker**, Heather A Prentice, Matthew P Kelly, **Adrian D Hinman**

**7** Trends in deep surgical site infections following four orthopedic procedures within a United States healthcare system over the past decade

**Heather A Prentice**, Priscilla H Chan, Jamila H Champsi, Dana S Clutter, Vivek Mohan, Robert S Namba, Nithin C Reddy, Adrian D Hinman, Andrew S Fang, Edward Yian, Ronald A Navarro, Elizabeth W Paxton

**8** Antibiotic prophylaxis regimes in shoulder arthroplasty operations - Analysis from the Swedish Shoulder Arthroplasty Register

**Anne Dettmer**, Markus Melander, Hanna C Björnsson Hallgren, Lars E Adolfsson, Björn Salomonsson

**9** A method to track improvement in pain and function after hip and knee replacement using Markov transition modeling: Michigan Arthroplasty Registry Collaborative Quality

**Brian R Hallstrom**, Thomas (Huiyong) Zheng, Richard E Hughes, Tae Kim

**10** Adverse event reports of hip prostheses and prediction of prostheses with higher than anticipated rates of revision

**Mario Vittorino**, Ben Polkinghorne, Simon Singer

**Q & A: 5 minutes**
Benchmarking total knee replacement constructs using noninferiority analysis: The New Zealand Joint Registry study

*MC Wyatt, CF Frampton, MR Whitehouse, KC Deere, A Sayers, D Kieser*

A more comprehensive evaluation of quality of care after total hip and knee arthroplasty: Combining indicators in an ordered composite outcome

*Peter van Schie, L van Bodegom-Vos, L N van Steenbergen, R G H H Nelissen, P J Marang-van de Mheen*

Using random forest to explore risk factors for early revision after total hip arthroplasty

*Enrico Ciminello, Cristiana Armaroli, Roberto Picus, Mirko Bonetti, Eugenio Carrani, Silvano Piffer, Marina Torre*

What is the most appropriate comparator group to use in assessing the performance of primary total hip prostheses in the community?

*Khashayar Ghadirinejad, Stephen Graves, Richard de Steiger, Nicole Pratt, Lucian B Solomon, Mark Taylor, Reza Hashem*

**Q & A: 5 minutes**

11.00-11.30pm  C. Minisymposium and Panel Discussion

Title: Identifications and handling of confounders

Presenters and moderators: Deirdre Cronin Fenton and Emma Nauciér

D. Minisymposium and Panel Discussion

Title: Database linkage – experiences

Liz Paxton: International registry collaborations using distributed data networks

Nils Hailer: The Nordic Arthroplasty Register Association - a framework fusing data from 4 national arthroplasty registers

Presenters and moderators: Liz Paxton and Nils Hailer
**Saturday 13th/Sunday 14th November**

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8.00-8.30pm  Symposium: 20 minutes presentation followed by 10 minutes discussion
Title: Real world data for orthopaedic implants: opportunities and challenges
Moderators: Vera Ehrenstein and Daniel Prieto-Alhambra

8.30-9.30pm  Hip and Knee
Moderators: Brian Hallstrom and Antti Eskelinen
4 minutes per presentation

1  Femoral prosthesis geometry is a risk factor for failure of cementless primary total hip arthroplasty
*Nithin C Reddy, Richard N Chang, Heather A Prentice, Elizabeth W Paxton, Matthew P Kelly, Monti Khatod*

2  Association of femoral head size and surgical approach on risk of revision after total hip arthroplasty – updated results of 269,280 procedures in the Dutch Arthroplasty Register
*Vera Velhorst, IMA de Reus, LN van Steenbergen, G Hannink, BW Schreurs, WP Zijlstra*

3  Primary cemented total hip arthroplasty in nonagenarians and centenarians: 1385 patients from the Swedish Hip Arthroplasty Register 1992-2019
*Mattias Schaufelberger, Ola Rolfson, Johan Kärrholm*

4  Does choice of bearings influence the survival of cementless stemmed total hip arthroplasty in the patient between 20 and 54 years? A comparison of metal-on-metal, ceramic-on-ceramic and metal-on-highly-crosslinked-polyethylene bearings from the NARA dataset 1995-2017
*Rasmus Tyrsted MikkelSEN, Søren Overgaard, Alma Becic Pedersen, Johan Kãrrholm, Ola Rolfson, Anne Marie Fenstad, Ove Furnes, Geir Hallan, Keijo Mäkelã, Antti Eskelinen, Claus Varnum*
5 Short versus conventional stem in cementless total hip arthroplasty. An evidence-based approach with registry data of mid-term survival

Arnd Steinbrück, Alexander Grimberg, Johanna Elliott, Oliver Melsheimer, Volkmar Jansson

Q & A: 8 minutes

6 The rate of revision of unicompartmental knee replacement is higher with smaller sized cemented tibial implants and with specific prostheses: An analysis of 50,239 unicompartmental knees from the Australian Orthopaedic Association National Joint Replacement Registry

Richard de Steiger, Alex Sims, Dylan Harris, Peter Lewis

7 Is there an optimal stabilization for total knee arthroplasty implant designs? A comparison between 114,878 medially stabilized, cruciate retaining and anterior stabilized implants in the Dutch Arthroplasty Register

Rachid Rassir, Maarten Schuiling, Inger N Sierevelt, Anneke Spekenbrink-Spooren, Peter A Nolte

8 Technology-assisted TKA is associated with lower early mortality than conventional (intramedullary) instrumentation

Ian A Harris, Yi Peng, David Kirwan, Peter Lewis, Richard de Steiger, Stephen Graves

9 Polyethylene crosslinking and antioxidant use not associated with risk of revision after total knee arthroplasty: An analysis from the American Joint Replacement Registry

Jamil Kendall, Christopher E Pelt, Patrick Yep, Kyle Mullen, Benjamin Imlay, Ryland Kagan

10 Use of cementless metaphyseal fixation in revision total knee arthroplasty in the United States

Christopher N Carender, Qiang An, Mathew W Tetreault, Ayushmita De, Timothy S. Brown, Nicholas A Bedard

Q & A: 8 minutes

9.30-9.45pm Break
9.45-10.30pm  Best Paper Session with voting
Moderators: Eric Bohm and Søren Overgaard
6 minutes per presentation followed by 3 minutes discussion

1. Does the use of assistive technology improve revision rates for total knee replacement?
   Peter L Lewis, David Campbell, Michelle Lorimer, Richard de Steiger, Camden Fary

2. Does a quality improvement intervention result in better outcomes for total hip and knee
   arthroplasty. A registry nested cluster randomised controlled trial
   Peter van Schie, Leti van Bodegom-Vos, Liza N van Steenbergen, Tristan M Zijdeman,
   Rob G H H Nelissen, Perla J Marang-van de Mheen, for the IQ Joint study group

3. International comparison of patient-reported outcome measure scores from patients
   undergoing knee replacement / International comparison of patient-reported outcome
   measure scores from patients undergoing hip replacement
   Lina Holm Ingelsrud, J Mark Wilkinson, Soren Overgaard, Ola Rolfson, Annette W-
   Dahl, Anneke Spakenbrink-Spooren, Brian Hallstrom, Adrian Sayers, Ronald A Navarro,
   Michael Terner, ISAR PROM working group Eric Bohm

4. Effect of body mass index on the risk of reoperation following total hip arthroplasty
   amongst people with type II diabetes
   Aurora Tasa, Johanna Vinblad, Jonatan Nåtman, Ola Rolfson

5. Pain and falls seen as top reasons for return to care following primary elective shoulder
   arthroplasty in United States cohort
   Danny P Chan, Heather A Prentice, Laurie G Barovick, Ronald A Navarro, Edward H
   Yian, Mark T Dillon

10.30-11.00pm  Symposium – Industry
   Title: What clinical data do manufacturers need for MDR and how can
   registries help fulfil this?
   Presenter and moderator: Joshua Bridgens

11.00-11.30pm  Welcome 2022 – 11th ISAR Congress Ireland presentation: Paddy Kenny
   Meeting Summary, Presentation of Awards, Meeting Closure: Ola Rolfson