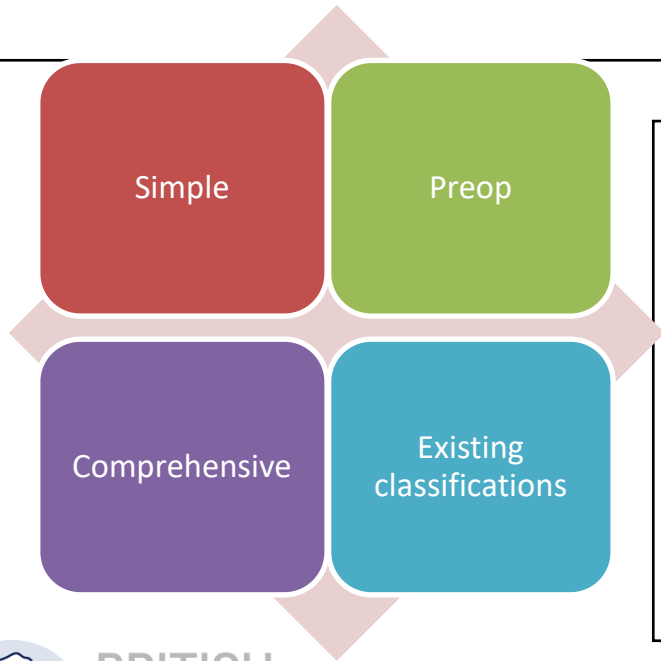


# The development of a complexity classification for revision hip arthroplasty



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John Charnley Gold Medal Research Meeting

# Modified Delphi process

- Inclusive process
- Expert views
- Equal voice
- Comprehensive
- Consensus reached though iterative rounds of questions
- Eol to join expert group
  - NJR revision numbers last 12 mths
  - Publication on arthroplasty/revision (in last 5 yrs)
  - most geographical areas represented
- 3 rounds of questionnaire
- Open forum discussion online meeting (19/4/21)

- RHCC Steering Group
  - Tim Board
  - Andy Hamer
  - Jonathan Howell
  - Michael Whitehouse
  - Vikas Khanduja
  - Justin Leong
  - Rohit Singhal

Expert group		
Andrew Manktelow	Jamie Griffiths	Simon Buckley
Al-Amin Kassam	Jim Holland	Sujith Konan
Andrew Carrothers	Matt Wilson	Tim Harrison
Anil Gambhir	Pedro Foguet	Tim Petherham
Ashwin Kulkarni	Paddy Subramanian	William Hart
Ben Bolland	Peter Bobak	
Ben Kendrick	Peter Cnudde	
Ben Burston	Phil Mitchell	
Doug Dunlop	Richard Westerman	
Duncan Whitwell	Stephen Jones	
Gary Mundy	Sulaiman Alawazzi	
Gavin Bartlett	Samantha Hook	
Hussain Kazi	Sharad Bhatnagar	



# Summary of Consensus

## H1

- Acetabular bone loss (Paprosky)
  - I, IIA
- Femoral bone loss (Paprosky)
  - I
- Periprosthetic fracture
  - UCS A
- No evidence of abductor compromise
- First time revision for aseptic loosening

## H2

- Bone Loss
  - Acetabulum (Paprosky)
    - IIB, IIC
  - Cup Retrieval- well fixed socket (+lysis)
- Femur (Paprosky)
  - II, IIIa
- Periprosthetic Fracture
  - UCS B1, B1, C, D
- Infection
  - DAIR
  - First time revision
- Evidence of abductor deficiency
- Revision for dislocation

## H3

- Bone loss
  - Acetabulum (Paprosky)
    - IIIA, IIIB
  - Pelvic Discontinuity
- Femur
  - IIIB, IV
  - Femoral retrieval- metaphyseal filling stem<sup>s</sup>
- Periprosthetic Fracture
  - UCS B3, E, F
- Infection
  - Fungal, TB, multidrug resistant organism
  - Re-revision
- Cases requiring plastic or vascular surgical support
- Revision of
  - TFR or PFR
- Re-revision for dislocations

ASA  $\geq 3$  adds \* to final classification level

# Future plans

- Reliability and reproducibility testing
- Predictive value – LOS, complications, costs
- Tool for networks to use as see fit
  - Not prescriptive as to location of revision
- Possibility to revisit classification in further meeting 2022

## Summary

- developed a comprehensive revision hip classification
- Help in development of Revision hip networks
- Work in progress, evolve with time