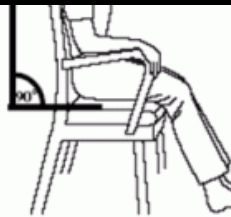
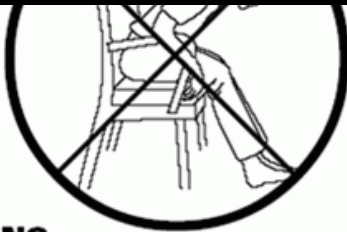
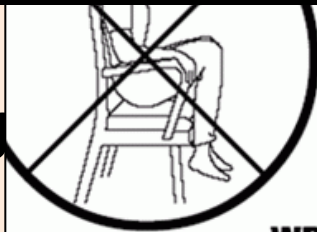
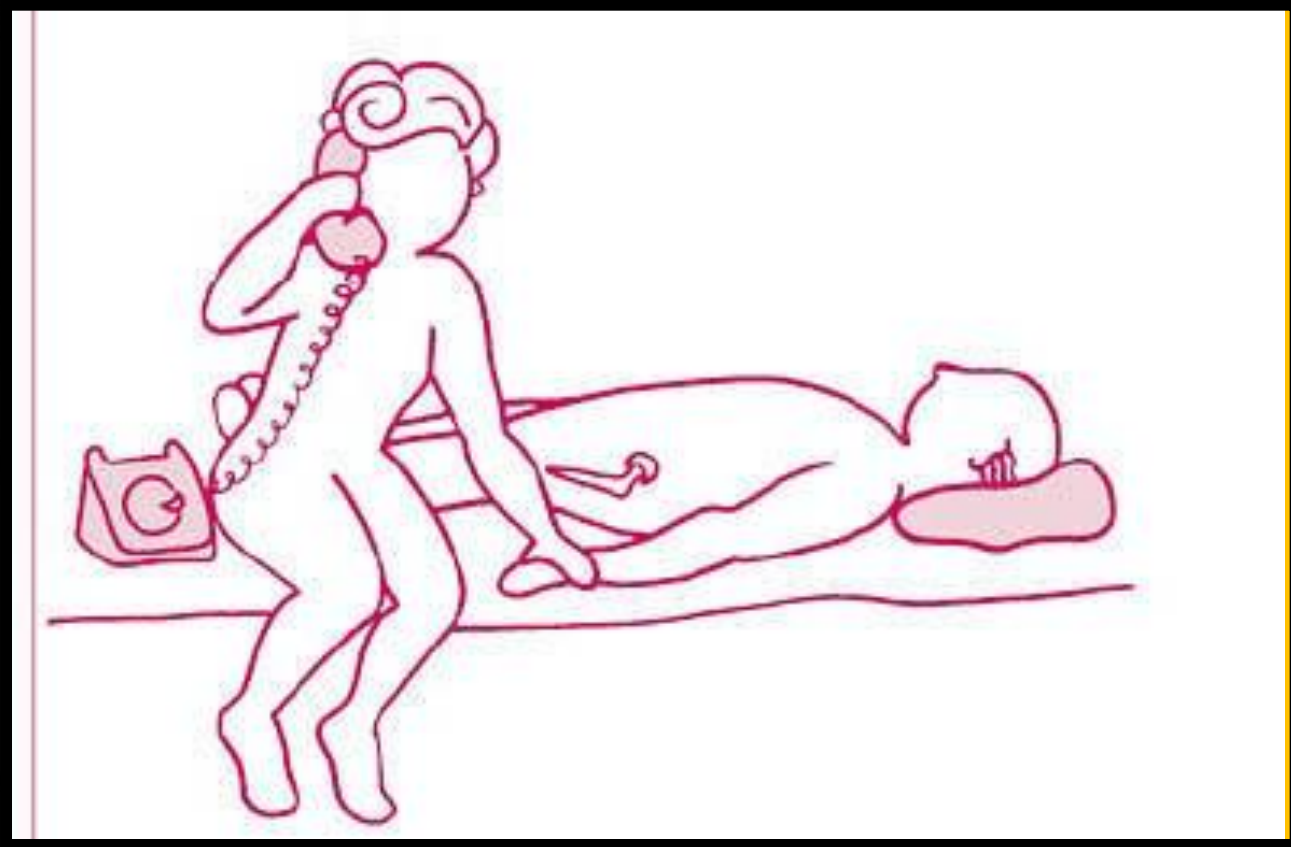
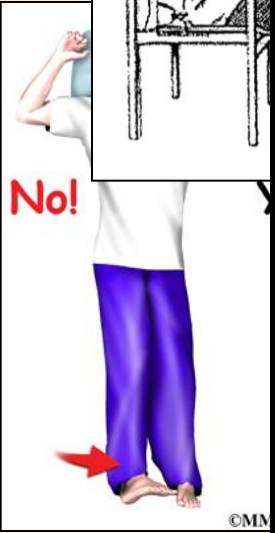
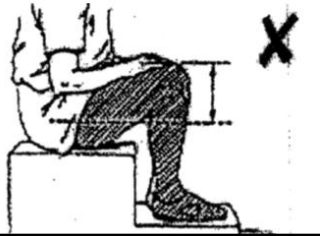


Replace



WRONG

RIGHT

Background

- THR dislocation occurs in 3% to 19% of primary THR.
- It is the second most common complication after aseptic loosening.
- It is physically and mentally disabling and is associated with patient dissatisfaction.
- Dislocated THRs consume considerable resources which diminishes the cost-effectiveness of a successful orthopaedic procedure.

Multi-factorial aetiology of THP

Dislocation

Mechanical factors:

- Component mal-positioning
- Small femoral head sizes
- Soft tissue laxity
- Component or acetabular mal-alignment

Patient factors:

- Neurological disorders
- Incontinence

• Patient non-compliance

BUT WHAT CAN WE DO TO PREVENT IT????

Questions on Precautions

UK survey of occupational therapist's & physiotherapist's experiences & attitudes towards THR precautions and equipment

Smith TO, Sackley CM

Purpose and Methods

27-question, self-administered online survey

UK Orthopaedic Physiotherapist & Occupational Therapist.

Survey included questions on:

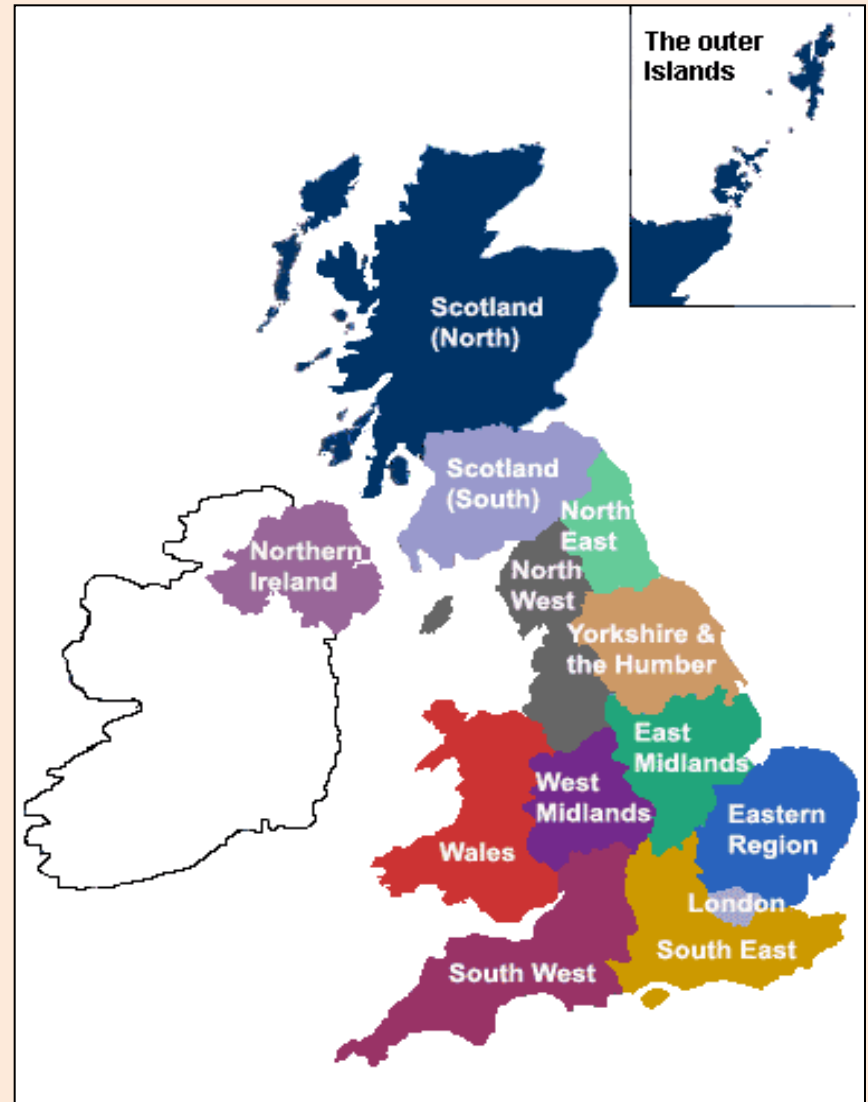
- current practices in the provision of equipment & hip precautions
- PTs & OTs attitudes towards practice

Results

N = 170 health professionals

(87 PTs & 83 OTs)

Representing 170 different health trusts in England, Wales, Scotland & Northern Ireland



Equipment Provision

Commonly prescribed equipment:

○ Raised toilet seats **95%**

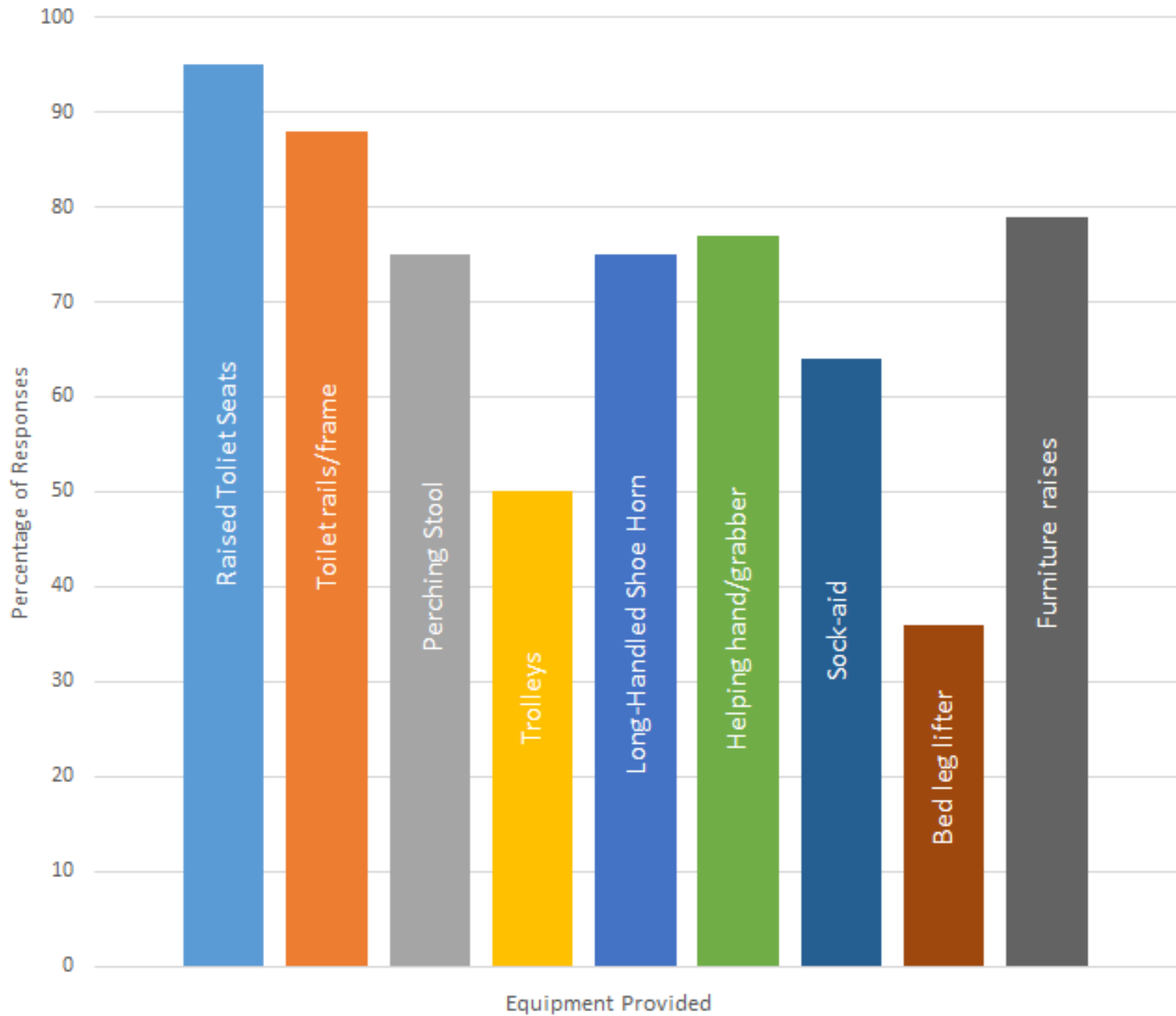
○ Toilet frames and rails **88%**

○ Furniture raises **79%**

○ Helping hands/grabbers **77%**

○ Perching stools **75%**

○ Long-handled shoe horns **75%**



Should people post-THR routinely received equipment?

YES



54%

NO



46%

Precautions

Hip precautions routinely prescribed by **97%**

Movements most commonly advised to avoid:

○ Hip flexion **90%**

○ Hip Adduction **83%**

○ Hip Rotation **82%**

Precautions

Specific activities instructed to avoid included:

○Driving a car

74%

○Sleeping on the non-operated side

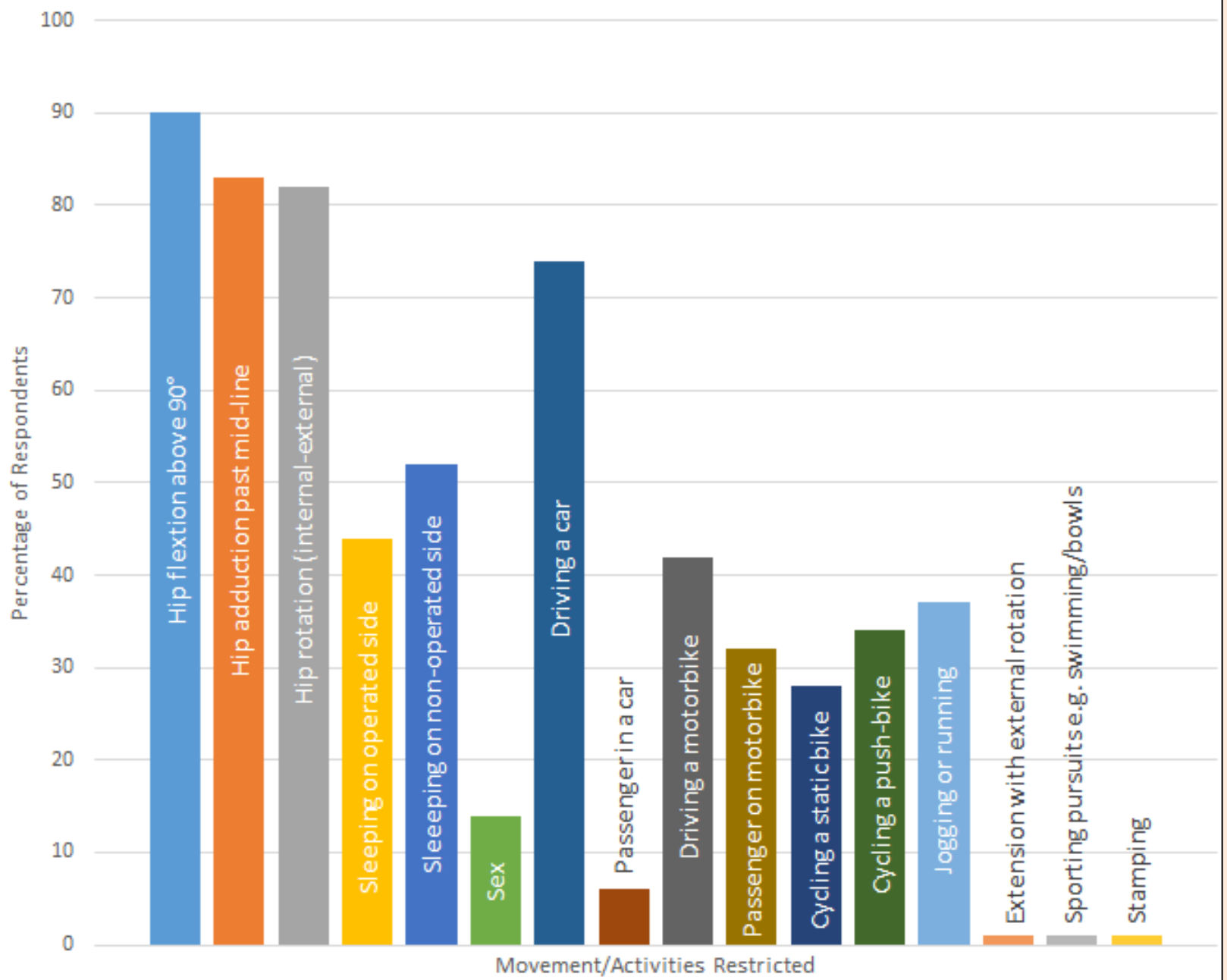
52%

○Sleeping on the operated side

44%

○Driving a motorbike or scooter

42%



Duration of Hip Precautions

Continuation of these varied:

○ First 6 post-operative weeks

60%

○ 3 months

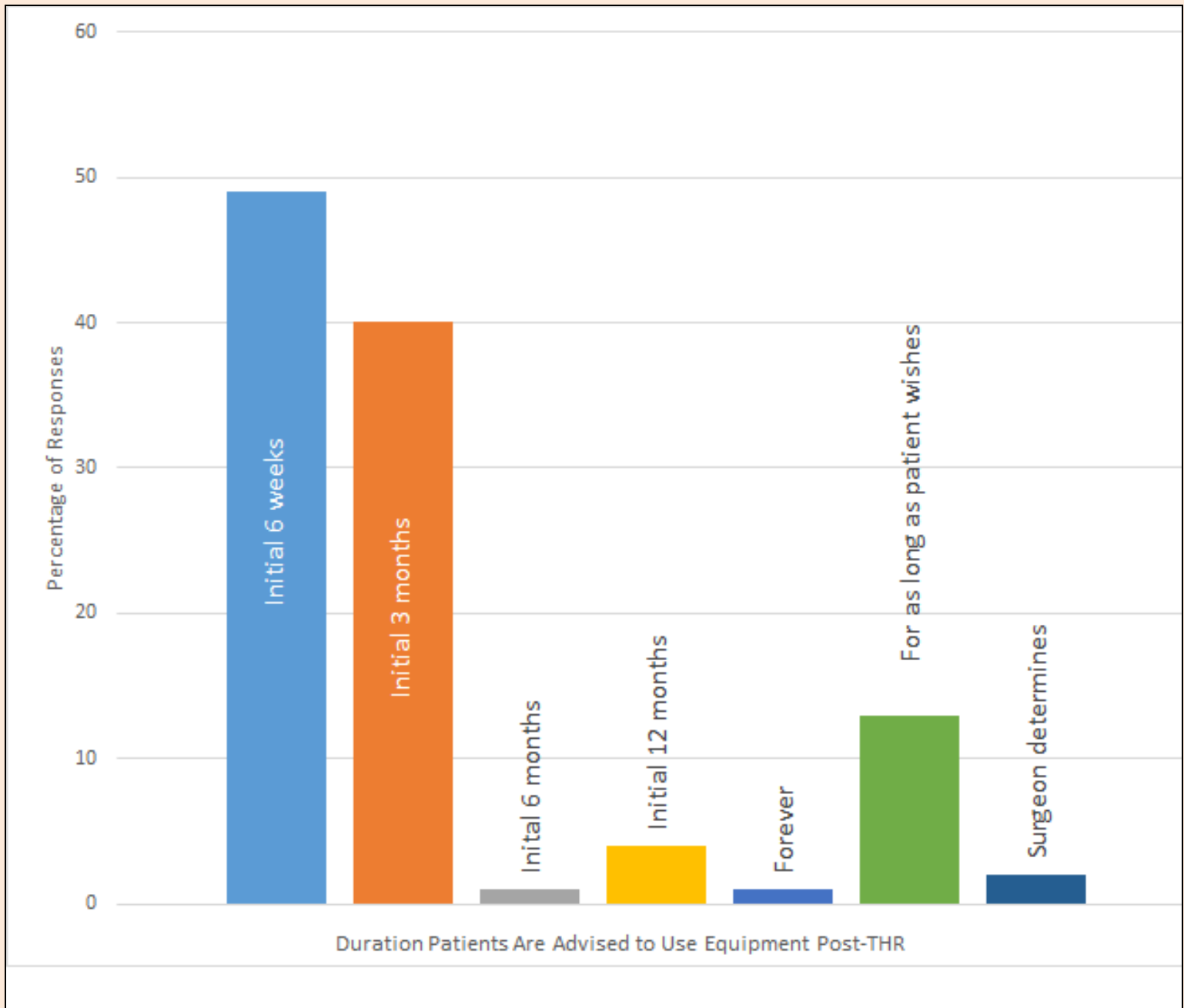
39%

○ 12 months

2%

4%

○ % instructed patients to follow indefinitely



Should people post-THR routinely received precautions?

YES



75%

NO



25%

Perceptions to Change

○ % wanted to change practice

48%

○ % wanted to change equipment/precaution prescription to a case-by-case basis

86%

○ % want abolition of equipment & precautions

11%

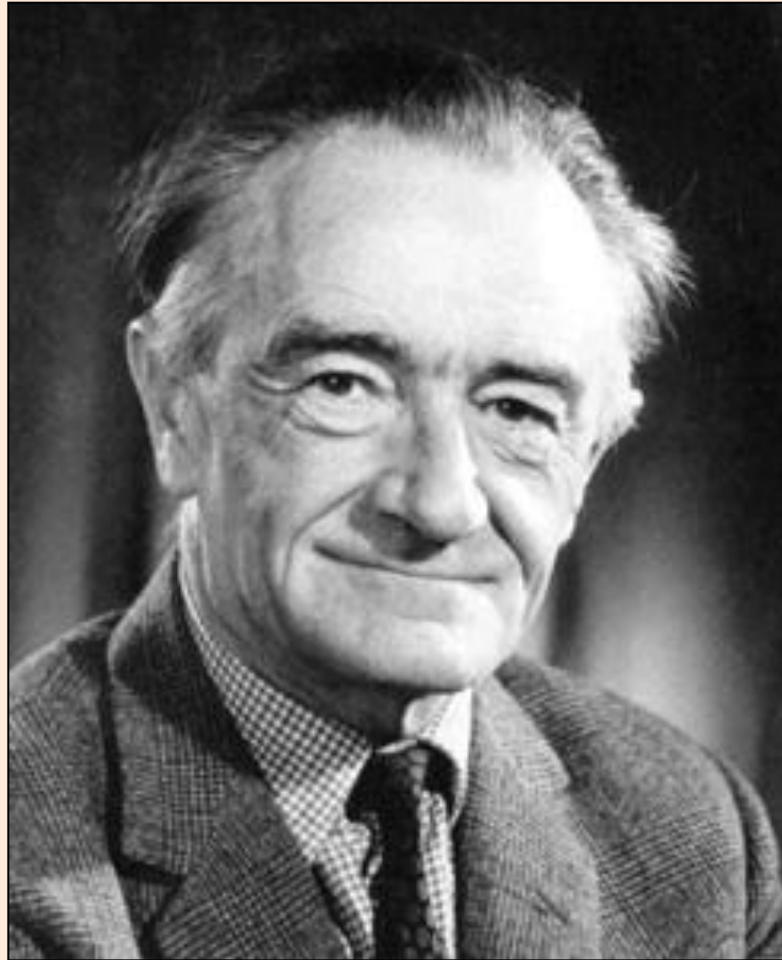
○ % reported this as a research priority

66%

Survey Conclusions

- Standard practice in UK is provision of equipment & hip precautions.
- Physios & OTs question a 'blanket' prescription approach.
- This is a research priority to better understand when & how precautions & equipment should be used.

Consensus from Archie



Assistive devices, hip precautions,
environmental modifications & training to
prevent dislocation & improve function after
hip arthroplasty

Smith TO, Jepson P, Beswick A, Sands G, Drummond
A, Davis ET, Sackley CM

Cochrane Database of Systematic Reviews 2016

Methods

Aim: To assess the effects of provision of assistive devices, education on hip precautions, environmental modifications & training in activities of daily living (ADL) and extended ADL (EADL) for people undergoing THA.

Methods: Cochrane Collaboration compliant systematic review methodology.

Precautions, Equipment & Functional Restrictions vs. Not

One study (81 participants)

Hip precautions, equipment & functional restrictions vs no provision of hip precautions, equipment or functional restrictions.

GRADE: Low quality

No difference in Harris Hip Score, SF-12 or dislocation events.

Slower functional recovery with precautions group

- Walked with a stick (MD 3.80 days, 95% CI 0.47 to 7.13)
- Walk without a stick (MD 12.40, 95% CI 6.48 to 18.32)
- Longer time until they recommenced driving (MD 7.20, 95% CI 2.78 to 11.62)
- longer time until walked without a limp (MD 17.30, 95% CI 6.90 to 27.90)

Precautions +/- equipment & functional restrictions

- One study (265 participants; 303 THAs)
- Provision of hip precautions with vs without postoperative equipment & restrictions to functional activities.
- GRADE: very low
- Perceived satisfaction in the rate of recovery greater in those not prescribed (NNTB = 7).
- No difference in hip dislocations

Enhanced Education Promoting Function vs. Conventional

- One study (146 participants)
- Provision of an enhanced post-op education & rehab service on hospital discharge to promote functional ADL vs. conventional rehab.
- GRADE: Very low quality
- No between-group significant differences in Objective and Subjective Functional Capability Index with enhanced rehab vs. conventional rehab.

Conclusions

- Uncertain if hip precautions +/- equipment & functional restrictions are effective in preventing dislocation & improving outcomes after THA.
- Insufficient evidence to support/refute the adoption of a post-op community rehab programme for functional reintegration & education vs. conventional rehab

What to do? Evidence for Adoption?

Hip Precautions



Post-Operative Equipment



Reintegration Interventions



Acknowledgements

Prof Cath Sackley – King’s College London

Mr Tom Withers – UEA

Dr Allan Clark – UEA

Dr Jack Dainty – UEA

Prof Alex Macgregor – UEA

Mr Charles Mann – Norfolk and Norwich University Hospital

Prof Avril Drummond – University of Nottingham

Dr Gina Sands – University of Nottingham

Mr Paul Jepson – University of Birmingham

Prof Edward Davis – Royal Orthopaedic Hospital, Birmingham

Dr Andrew Beswick – University of Bristol

