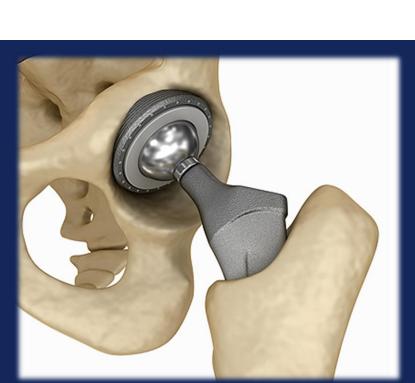




# Hip precautions after hip operation (HippityHop): results of a before and after study



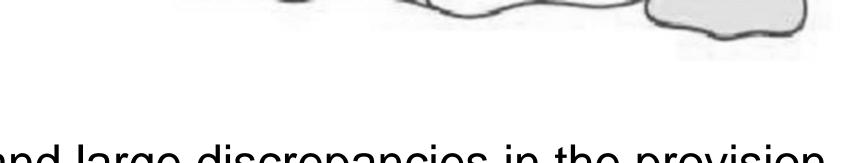
Lightfoot CJ<sup>1</sup>, Coole C<sup>1</sup>, Sehat K<sup>2</sup>, Drury G<sup>2</sup>, Drummond A<sup>1</sup>

1. University of Nottingham; 2.Nottingham University Hospitals NHS Trust

## Introduction

- Total hip replacement (THR) is an effective surgical procedure to address persistent joint problems, including pain, reduced mobility, and decreased quality of life (QoL). In the UK, over 100,000 THRs were performed in 2017 [1]
- To protect the new joint from risk of dislocation (a recognised complication of THR surgery) patients are routinely advised to restrict certain movements ('hip precautions')
- Hip precautions are generally prescribed for 6-12 weeks post-surgery, and typically involve advising patients to avoid flexing their hip beyond 90 degrees, adduction, and rotation of the hip [2]

**PHASE TWO** 



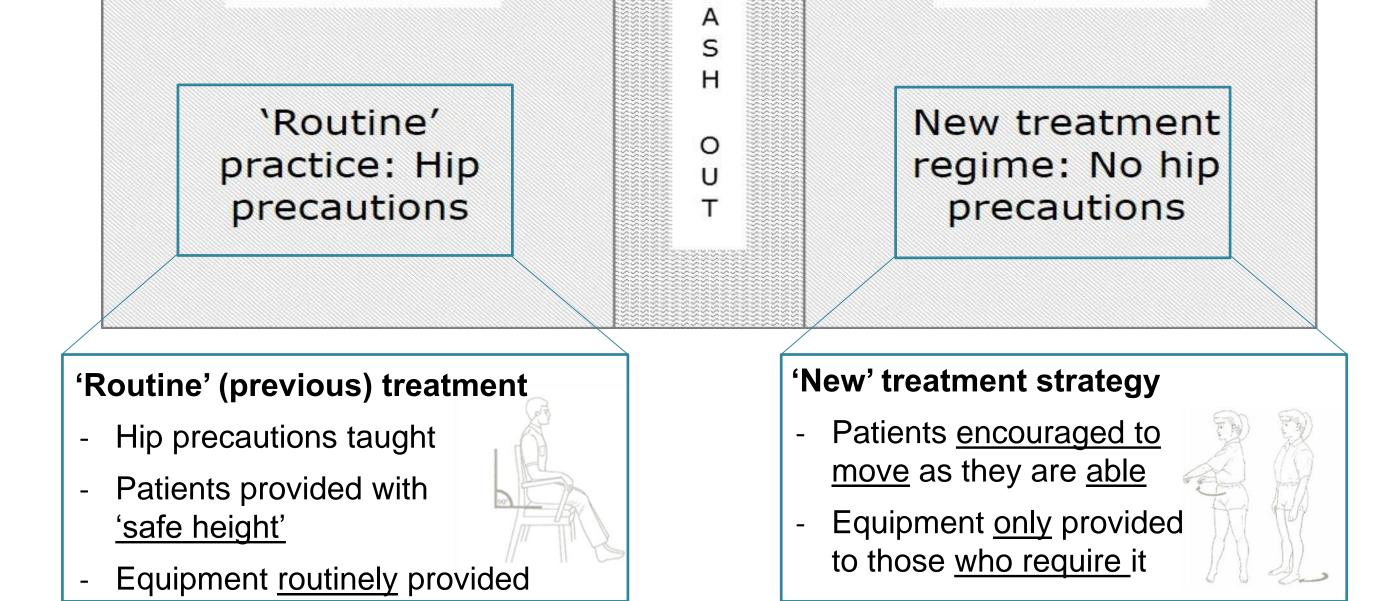
Despite being routinely provided, there is a lack of evidence to support the use of precautions [3] and large discrepancies in the provision of hip precautions exist in the UK [2, 4]

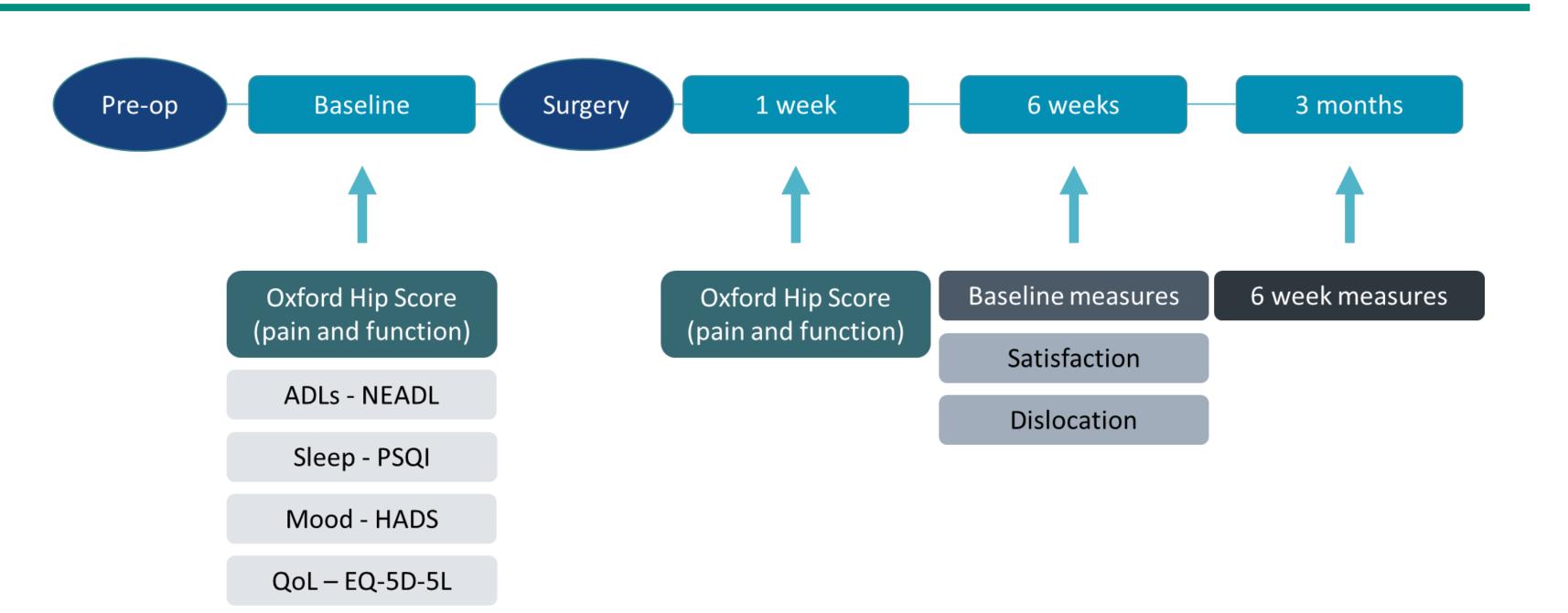
## Aim

 To determine the effect of precautions on patient outcomes following THR by comparing outcomes of patients who received hip precautions with those who did not

#### Methods

PHASE ONE





Data was assessed using t-tests and two one-sided test (TOST) procedure

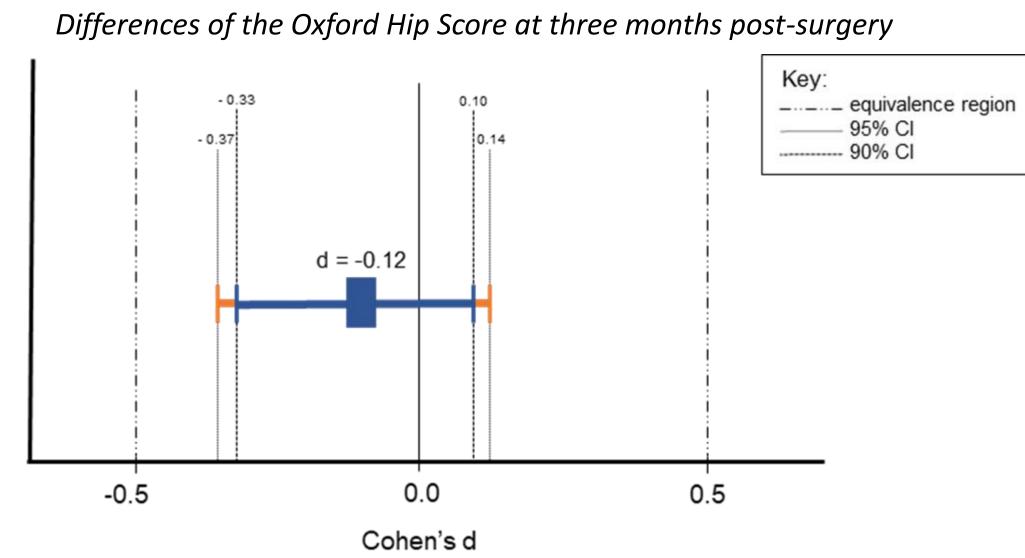
#### Results



Phase one (hip precautions)
118 primary THR patients
67±11 years, 73% ♀,

Phase two (no hip precautions) 119 primary THR patients 68±10 years, 85% ♀,

■ Equivalence analysis (TOST) showed that the observed effect size of the mean difference in the Oxford Hip Score (OHS) of the two groups at three months post-surgery (d = -.12) was significantly within the equivalent bound of Cohen's d: -.5 and .5, t (214) = 2.93, p = .002



No significant differences were observed between the two groups at baseline, six weeks, and three months for the OHS, NEADL, PSQI, HADS, and EQ-5D-5L. However, at one week postoperatively, the no hip precautions group had a significantly greater OHS score (i.e. better function and less pain) (25.00 (±6.56)) than the hip precautions group (29.20 (±7.26)) (p <.001)</li>

# Discussion

- The findings demonstrate that hip precautions provided no additional benefit as patients had similar outcomes regardless of whether they
  received precautions or not
- The findings lend evidence to support the the discontinuation of hip precautions from routine clinical practice for primary THRs

#### References