# Preventing post-operative urinary retention: an example of researcher-patient co-production BRISTOL



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# Background

•Interest in patient and public involvement (PPI) is increasing, yet limited evidence exists about its impact on health research

•We present our experience of successful public involvement throughout a project developed from a patient submitted research idea aimed at preventing post-operative urinary retention (PO-UR)

#### PO-UR

- Affects many patients following surgery (Incidence 10.7% - 84% after joint replacement<sup>1</sup>)
- Untreated, can lead to complications e.g. sepsis due to urinary stasis and acute kidney injury
- May result in delayed hospital discharge and additional post-hospitalisation care

# The problem

This project highlighted a difference in attitudes between patients and clinicians, in relation to the treatment of PO-UR.

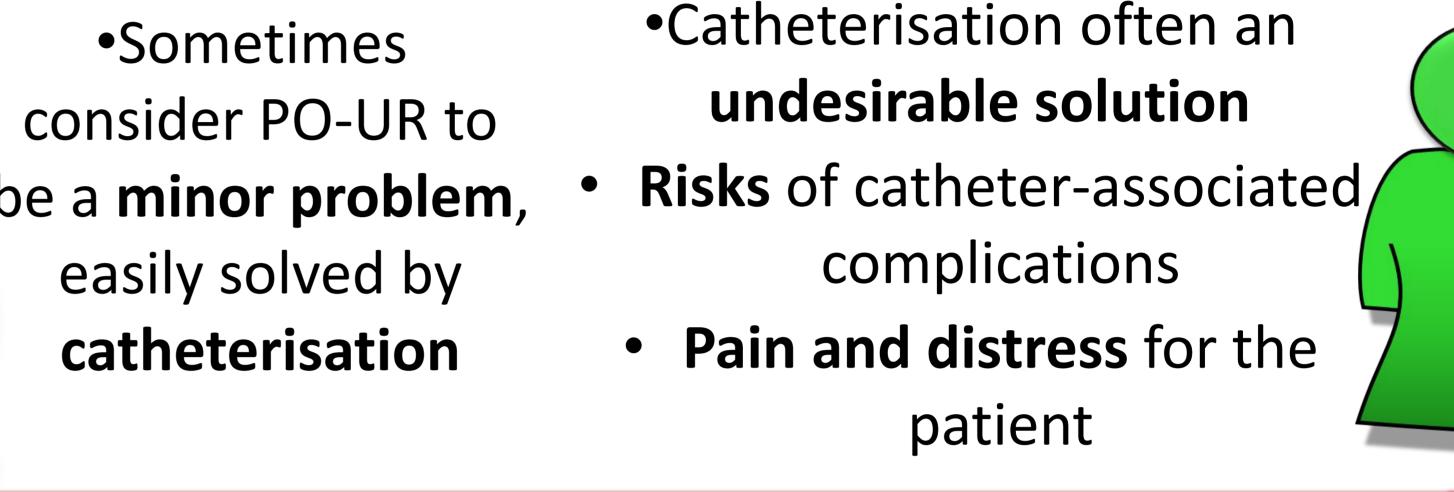


#### Clinicians

Sometimes consider PO-UR to be a minor problem, easily solved by

#### **Patients**

 Catheterisation often an undesirable solution



Co-production

# Co-initiation

NIHR CLAHRC West open call 2014

Public contributor

Took on role of

co-Principle Investigator

Attends research team

meetings and co-chairs

wider advisory group

meetings.

Clinicians from

**Bristol and Coventry** 

Advisory roles

Research idea submitted by public contributor (NL) with previous experience of PO-UR

as a surgical patient



### Researchers from **CLAHRC West**

•Including co-Principle Investigator

## **Systematic Reviews**



•Helped complete **two** systematic reviews to identify:

1. Risk factors associated with developing PO-UR

2. Interventions for preventing/treating

PO-UR

 To inform development of an effective intervention protocol

# Intervention Development

 Aims to develop an effective intervention for the prevention of

PO-UR

To incorporate findings from the systematic reviews and advice from our clinicians, public contributor, and additional PPI input

#### Primary study

 Aims to pull all members of the team together to plan and conduct a prospective study to measure the effectiveness of the intervention

# The bottom line

#### This potentially impactful research is unlikely to have been developed if not for patient involvement

•NL's continued involvement has added unique knowledge, personal insight and relevance to the project.

•Not only encouraging for public involvement in future research, but highlights the importance of public contributor involvement at all stages of the research process

#### References

<sup>1</sup>Baldini, G., et al., *Postoperative urinary retention: anesthetic and perioperative considerations.* Anesthesiology, 2009. 110(5): p. 1139-57. **Project Links** 

https://clahrc-west.nihr.ac.uk/research/projects/preventing-post-operative-urinary-retention-improve-outcomes-reduce-costs/ https://clahrc-west.nihr.ac.uk/news-item/preventing-post-operative-urinary-retention-example-researcher-patient-co-production/

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