Identifying Continence OptioNs after Stroke (ICONS): an evidence synthesis, case study and exploratory cluster randomised controlled trial of the introduction of a systematic voiding programme for patients with urinary incontinence after stroke in secondary care

Lois H Thomas,1* Beverley French,1 Christopher J Sutton,1 Denise Forshaw,1 Michael J Leathley,1 Christopher R Burton,2 Brenda Roe,3 Francine M Cheater,4 Jo Booth,5 Elaine McColl,6 Bernadette Carter,1 Andrew Walker,7 Katie Brittain,8 Gemma Whiteley,9 Helen Rodgers,10 James Barrett11 and Caroline L Watkins1 on behalf of the ICONS project team and the ICONS patient, public and carer involvement groups

1School of Health, University of Central Lancashire, Preston, UK
2School of Healthcare and Medical Science, Bangor University, Gwynedd, UK
3Evidence-Based Practice Research Centre, Edge Hill University, Ormskirk, UK
4School of Health Science, University of East Anglia, Norwich Research Park, Norwich, UK
5Department of Nursing and Community Health, Glasgow Caledonian University, Glasgow, UK
6Newcastle Clinical Trials Unit, Newcastle University, Newcastle upon Tyne, UK
7Robertson Centre for Biostatistics, Glasgow University, Glasgow, UK
8Institute of Health and Society and Institute for Ageing and Health, Newcastle University, Newcastle upon Tyne, UK
9Lancashire Teaching Hospitals NHS Foundation Trust, Royal Preston Hospital, Preston, UK
10Institute of Neuroscience, Newcastle University, Newcastle upon Tyne, UK
11Wirral University Teaching Hospitals NHS Foundation Trust, Arrowe Park Hospital, Wirral, Merseyside, UK

*Corresponding author
Declared competing interests of authors: Elaine McColl is a member of the National Institute for Health Research (NIHR) Programme Grants for Applied Research subpanel and also a member of the NIHR Journals Editorial Board.
Urinary incontinence is common after stroke and can be very distressing for patients and their carers. We developed and tested a programme for assessing and treating incontinence while people are in hospital, designed to help them become continent again. The programme included bladder training, which encourages people to extend the time between voiding so that continence might be regained, and prompted voiding, which aims to improve bladder control using verbal prompts and positive reinforcement. Our study had two parts:

1. We developed the programme and tried it out in one stroke unit. We listened to what patients, families and clinical staff told us and made changes to improve the programme.
2. We tested if it was possible to recruit and retain patients, how best to deliver the programme and whether or not it was acceptable to patients and clinicians in a feasibility trial. In four of the units, we used facilitation as a strategy to support and enable staff to change their practice. We compared patients in these stroke units with those in four other units which did not introduce the programme.

We were able to recruit 413 patients and retain 85% and 88% at 6 and 12 weeks respectively. We found that patients who took part in the programme were no more likely to be continent 6, 12 or 52 weeks after the stroke than those who did not. However, we found that patients with urge incontinence were potentially more likely not to have urge incontinence at 12 weeks if they had received the programme.

We believe our programme may help some stroke survivors (particularly those with urge incontinence) to regain continence, so now we plan to test it further in a larger number of stroke services.
Programme Grants for Applied Research

ISSN 2050-4322 (Print)
ISSN 2050-4330 (Online)

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics (COPE) (www.publicationethics.org/).

Editorial contact: nihredit@southampton.ac.uk

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This report
The research reported in this issue of the journal was funded by PGfAR as project number RP-PG-0707-10059. The contractual start date was in October 2008. The final report began editorial review in September 2013 and was accepted for publication in July 2014. As the funder, the PGfAR programme agreed the research questions and study designs in advance with the investigators. The authors have been wholly responsible for all data collection, analysis and interpretation, and for writing up their work. The PGfAR editors and production house have tried to ensure the accuracy of the authors’ report and would like to thank the reviewers for their constructive comments on the final report document. However, they do not accept liability for damages or losses arising from material published in this report.

This report presents independent research funded by the National Institute for Health Research (NIHR). The views and opinions expressed by authors in this publication are those of the authors and do not necessarily reflect those of the NHS, the NIHR, CCF, NETSCC, PGfAR or the Department of Health. If there are verbatim quotations included in this publication the views and opinions expressed by the interviewees are those of the interviewees and do not necessarily reflect those of the authors, those of the NHS, the NIHR, NETSCC, the PGfAR programme or the Department of Health.

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