

# **POSTER PRESENTATION**

Open Access

# Practical and methodological challenges in the design and implementation of a cluster-randomised feasibility trial of the management of urinary incontinence after stroke

Chris J Sutton\*, Lois Thomas, Denise Forshaw, Caroline L Watkins

From Clinical Trials Methodology Conference 2011 Bristol, UK. 4-5 October 2011

# **Objective**

To evaluate design and implementation issues in an NIHR-funded feasibility trial of the management of urinary incontinence after stroke in a secondary care setting.

## **Methods**

Twelve stroke services were cluster-randomised to 3 intervention groups (systematic voiding programme with/without supported implementation; usual care) in 4 strata based on: having separate/combined acute and rehabilitation units; above/below median performance on the 'nine key indicators of stroke care' in the National Sentinel Stroke Audit (NSSA) [1]; number of annual stroke admissions. Target recruitment was 780 patients overall; the recruitment period was 9 or 12 months, depending on a Trust's annual stroke admissions, to reduce variability in numbers across services. Each service gained an additional 2.8 whole time equivalent health care assistants (HCAs) supporting introduction of the intervention or maintaining parity of staffing in 'usual care' services.

# **Results**

Recruiting services proved problematic, with excess treatment costs and service support cost being unavailable in some regions locally. The Comprehensive Local Research Network helped negotiate service support and excess treatment costs in England, leading to the

recruitment of 8 sites. We were encouraged in recruitment of Welsh services, although differences in funding structure and governance processes caused further delays. The Welsh Assembly's commitment to stroke services meant that funding from them was accessible, although acquiring Health Board funding was more problematic. R&D approval was slow in all 12 Trusts, in some taking almost a year. Appointment of staff was often delayed by current vacancy control procedures in the NHS.

All English services are now recruiting, with larger ones recruiting satisfactorily. Smaller services typically started later and have had greater difficulty meeting their lower targets. Further recruitment strategies introduced recently include a newsletter about trial progress. Welsh sites are commencing recruitment in late summer/autumn 2011. The unplanned staggered start of sites caused a loss of allocation concealment, although there is no evidence that this impacted on site participation. A 9-month trial extension has been approved, with participant recruitment continuing until July 2012.

# **Conclusions**

Designing and implementing a cluster-randomised trial of a complex intervention can be difficult, particularly so in the current financial climate in the NHS. This will impact on the feasibility and planning of a definitive trial to evaluate the effectiveness and cost-effectiveness of the intervention. Lessons learned from this feasibility trial may help others more correctly estimate the timelines and workload involved in setting up and

<sup>\*</sup> Correspondence: cjsutton@uclan.ac.uk School of Health, University of Central Lancashire, Preston, Lancashire, PR1



# running a multi-centre cluster-randomised controlled trial in the NHS.

# Acknowledgements

We are grateful for the support of the ICONS Project Team and the ICONS Patient, Public and Carer Involvement Groups. This paper presents independent research commissioned by the NIHR under its Programme Grants for Applied Research scheme (RP-PG-0707-10059). The views expressed in this publication are those of the authors and not necessarily those of the NHS, the NIHR or the Department of Health.

# Published: 13 December 2011

### Reference

 Intercollegiate Stroke Working Party: National Sentinel Stroke Audit 2008. London: Royal College of Physicians; 2009.

### doi:10.1186/1745-6215-12-S1-A151

Cite this article as: Sutton *et al.*: Practical and methodological challenges in the design and implementation of a cluster-randomised feasibility trial of the management of urinary incontinence after stroke. *Trials* 2011 12(Suppl 1):A151.

# Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at www.biomedcentral.com/submit

