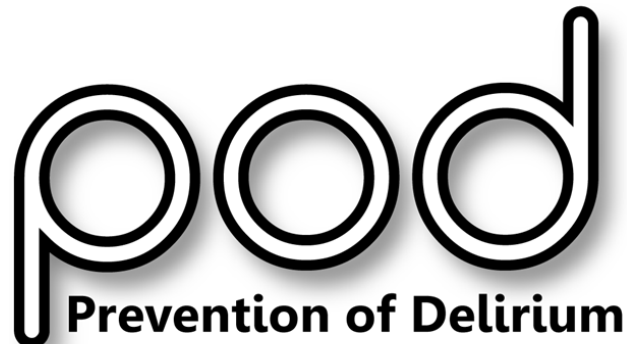


Is dedication all you need to deliver to time and target in a multicentre study?

Lessons learned from the Prevention of Delirium (POD) study

Suzanne Hartley, John Green, Amanda Farrin, Marie Fletcher, Gillian Santorelli, Jane Smith, John Young
on behalf of the POD trial team



Overview

- Brief overview of study
- What were the targets?
- What were the challenges?
- What did we achieve?
- Is dedication all you need?

Trial design

Aim:

- To improve delirium prevention for older people admitted to NHS acute hospitals through a programme of linked projects

Population:

- Inclusion: aged ≥ 65 years
- Exclusion: prevalent delirium

Intervention:

- Prevention of delirium (POD) System of Care vs Usual Care

Main Outcome:

- Incidence of new onset delirium within ten days of hospital admission

Study Design:

- pragmatic, multi-centre, cluster randomised, controlled, feasibility study
- Target sample size = 720

- Programme start in Dec 2009
- Feasibility study - 01 October 2013 – 30 September 2015
 - 5 month set-up
 - 6 month implementation
 - 6 month recruitment
 - 3 month follow-up
 - 4 month analysis & write-up

Site Identification & set-up

Challenge:

- 8 hospitals / 16 wards
- Hospitals to meet 'ward readiness'
- All sites randomised at same time

Strategy:

- ✓ Early engagement
- ✓ Define 'research readiness'
- ✓ Site visit
- ✓ CTU complete local governance forms

Recruitment

Challenge:

- Target
- Vulnerable population
- Delirium status required on day of admission

Strategy:

- ✓ Appoint trial Research Assistants (RAs)
- ✓ Involve a patient group
- ✓ Seek approval for consultee agreement
- ✓ 3 stage recruitment process
 - ✓ Screen → within 24 hrs
 - ✓ Test for delirium → within 24 hrs / pre-operatively
 - ✓ Obtain consent / agreement → within 48hrs

Outcome assessment

Problem:

- Daily assessments for 10 days and at 30 days
- Delirium tool widely used in clinical research, not in practice
- Missing data due to loss of capacity

Solution:

- ✓ Appoint trial RAs
- ✓ Pre-recruitment training
- ✓ Ethical approval for continuation of delirium assessment, but data not transferred without personal / consultee agreement

WHAT DID WE ACHIEVE?

Identification of sites

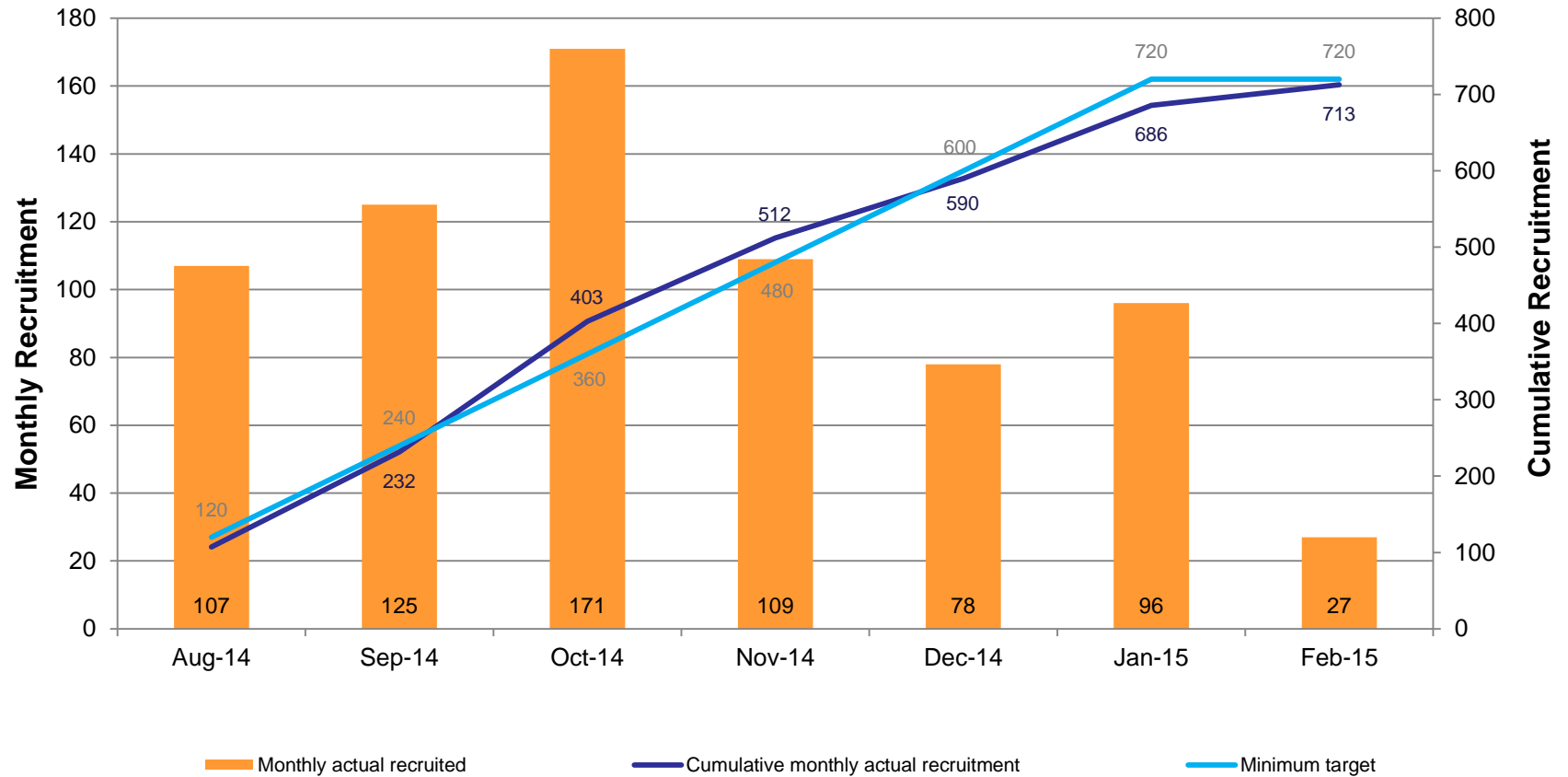
Site Identification:

- ✓ 20 potential sites → 13 Site visits → 8 NHS permissions
- ✓ 4 weeks from ethical approval → all NHS permissions
- ✓ 4 weeks from ethical approval → randomisation

POD Implementation:

- ✓ 7 wards → fully implementation
- X 1 ward → partial implementation

Total Recruitment - All Sites



Outcome assessment

- ✓ High compliance with Confusion Assessment Method:
 - ✓ 70.3% → assessed on consecutive days
 - ✓ 24% → 1 day missed

- ✓ 71.9% → assessed on Day 30

- ✓ Trained 35 research assistants
 - ✓ High Inter-rater reliability

- ✓ No data missing due to loss of capacity

Is dedication all you need.....??

Select sites with ability to **dedicate** time and resource

- ✓ Ward readiness
- ✓ Research readiness
- ✓ Visit sites

Employ **dedicated** staff

- ✓ Research assistants: recruitment, outcome assessment, data collection
- ✓ Trial researchers: implementation, training, recruitment
- ✓ CTU: trial oversight & support, ethics, data management

Develop a **dedicated** team

- ✓ Important research question
- ✓ Training and support
- ✓ Keep it logical & simple

Anything else.....?

- Detailed Project Plan
 - ✓ Identify the challenges
 - ✓ Devise the strategies
 - ✓ Monitor

- Cluster vs individual randomisation

- Short duration
 - ✓ Work on a trial from beginning to end
 - ✓ Exposure to a broad range of activities

- Luck

Acknowledgements



Trial Steering Committee

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Dr Caroline Nicholson
Mrs Margaret Harrison

Trial Management Group

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Participating Sites:

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Questions?

Suzanne Hartley – s.hartley@leeds.ac.uk