

# Optimising Intervention Implementation in the EPIC trial

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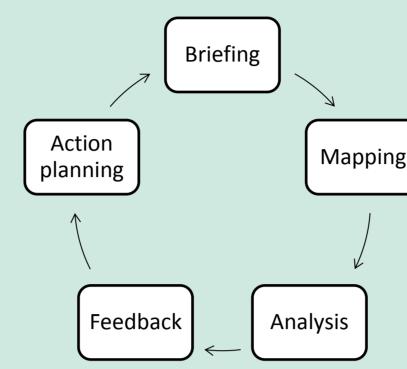


## Background to the EPIC trial

At least two-thirds of people living in care homes have dementia<sup>1</sup> and many develop behaviours, such as agitation<sup>2</sup>. This can be upsetting for them, for other residents and difficult for care staff to support<sup>3,4,5</sup>. These behaviours are often linked to poor quality care<sup>6</sup>. Research shows that training staff in the principles of person-centred care provides them with the skills they need to prevent and support distressing behaviours<sup>7</sup>. However, without extra support for staff to build on their training, these benefits soon disappear<sup>7</sup>. Dementia Care Mapping<sup>8</sup> is a tool that has been used to help staff to continue applying personcentred care training in practice. However, there is limited robust research about how effective it is. It is also a relatively complex tool to master.

# Dementia Care Mapping (DCM<sup>TM</sup>)

DCM™ involves observing the experience of care from the point of view of people with dementia and then feeding this back to staff, who use this information to look at ways to improve. The below illustrates the DCM 'cycle'.



The EPIC trial is looking at whether DCM is effective and good value for money when used for this purpose in care homes.

#### **EPIC** trial design

Once residents, relatives and staff have **consented** to take part and provided **baseline data**, care homes are **randomly allocated** (3:2) to receive either Usual Care (UC) + Dementia Care Mapping (DCM) or UC alone.

Care home staff at the DCM homes receive standard training to become 'mappers'. They then undertake **3 cycles of DCM** at around 3, 8 and 13 months postrandomisation. Mappers are supported by DCM experts for their first cycle.

Staff and DCM experts provide data to evidence intervention delivery in the care homes.

Residents, relatives and staff provide trial **outcome data** at 6 and 16 months post randomisation in all participating homes.

### DCM delivery

The intention in the EPIC Trial was to a) ensure intervention fidelity and b) monitor adherence via the following means:

#### 1. Mapper credentials

a) In consultation with the Care Home Manager (see figure 1), Researchers identify two members of staff at each home who meet the criteria to be a 'mapper'. Mappers receive an information sheet, discuss the role and provide consent.

b) Suitability, eligibility and consent data collected.

# 2. Mapper training

a) Standardised training is provided by DCM trainers from the University of Bradford – this is a 4 day course with assessment, feedback and criteria for passing the course. Re-sits are undertaken if any elements are failed.

b) The DCM trainer provides data re: attendance and pass mark.

# 3. Delivery with feedback

a) The first 'cycle' of DCM is undertaken with DCM expert support. This allows for consolidation of skills in practice and inter-rater reliability assessment.

b) Expert rating of performance provided.

Mappers send raw mapping data to the research office for review.

#### 4. Maintenance

a) Thereafter mappers are required to undertake cycles two and three on their own. They are provided with dates to do so at the outset.

b) Mappers send raw mapping data to research office for review, alongside data regarding staff attendance at briefing and feedback sessions.

# Problems encountered

During the pilot phase (first few homes) problems with implementation were identified:

Mappers recruited with suboptimal skills.

Some mappers dropped out prior to the training course, meaning more had to be recruited.

Mappers unable to attend training at the last minute (commitments at the care home)

Some mappers overwhelmed by the intensity of the course.

Difficulty scheduling suitable dates for expert support .

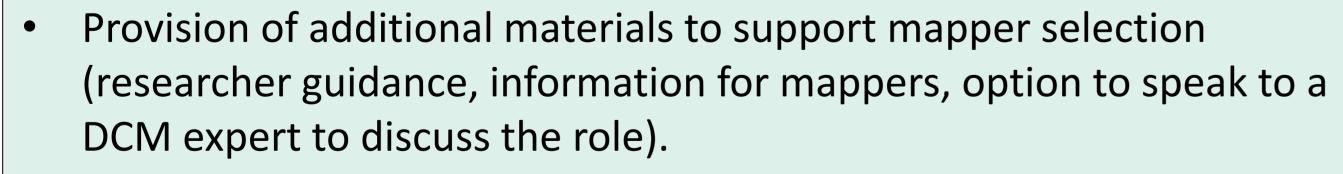
Last-minute cancellations.

Delay in producing the DCM report due to time pressures and lack of confidence.

From early experience, it was felt that some mappers may not remember, or be motivated, to continue with later cycles without support.

#### Solutions

Problems were countered via the following means, with the Clinical Trials Research Unit (CTRU) as a central point of contact:



- Early recruitment of mappers to allow staff rota scheduling to fit with training.
- Researchers emphasise key importance of mapper role to the research, and discuss time commitments with manager & mappers.
- Mappers asked to write a 500 word piece on what they understand by DCM and why they want to be a mapper. This is reviewed by the DCM expert and CI. Mappers contacted by CI / expert if any concerns.
   Problems fed back to the researchers.
- DCM expert support dates scheduled early – at time of CH consent.
- Researchers speak to CH manager and rota manager to ensure mappers will be given time to map within usual working hours.
- CTRU chase mapping data via the DCM experts.
- CTRU monitor dates each cycle is due and send reminder emails, text messages and newsletters to mappers, along with mapping materials ahead of each cycle.
- Any issues flagged as a problem by the experts at cycle one are followed up, and DCM experts may provide further telephone support.
- Missing mapping data chased via the DCM experts.

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<sup>1</sup>National Audit Office, *Improving services and support for people with dementia*, 2007, The Stationary Office: London

<sup>2</sup>Ballard, C. and A. Corbett, *Management of neuropsychiatric symptoms in people with dementia*. CNS drugs, 2010. **24**(9): p. 729-39.

<sup>3</sup>Davison, T.E., et al., *An individualised psychosocial approach for 'treatment resistant' behavioural symptoms of dementia among aged care residents*. International Psychogeriatrics, 2007. **19**(5): p. 859-873.

<sup>4</sup>Banerjee, S., et al., *Quality of life in dementia: more than just cognition. An analysis of associations with quality of life in dementia*. Journal of Neurology, Neurosurgery and Psychiatry, 2006. **77**(2): p. 146-48.

<sup>5</sup>Deudon, A., et al., *Non-pharmacological management of behavioural symptoms in nursing homes*. International Journal of Geriatric Psychiatry, 2009. **24**: p. 1386-1395.

<sup>6</sup>All-Party Parliamentary Group on Dementia, *Always a last resort. Inquiry into the prescription of antipsychotic drugs to people with dementia living in care homes*, 2008, The

<sup>7</sup>Kuske, B., et al., Nursing home staff training in dementia care: a systematic review of

<sup>8</sup>Bradford Dementia Group, DCM 8 User's Manual. 2005 Bradford. University of Bradford

evaluated programmes. International Psychogeriatrics, 2007. 19(5): p. 818-41

#### Discussion

Introducing methods to enhance delivery was seen as an appropriate and necessary approach when balanced against the alternative – i.e. the possibility of completing a definitive, pragmatic trial with potential for a negative result arising from sub-optimal implementation rather than actual intervention ineffectiveness.