



Reducing omitted doses of medication on the Mental Healthcare of Older Peoples' (MHCOP) Wards

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Background

- Our study in ELFT¹ found that omitted doses of medication account for almost 40% of all administration errors.
- In England, between 2006-2009, as a result of omitted doses²:
 - 27 deaths
 - 68 severe harms

1: Cottney A & Innes J. Medication-administration errors in an urban mental health hospital: a direct observation study. Int J Ment Health Nurs. 2015 Feb;24(1):65-74.

2: NPSA Rapid Response Alert, 'Reducing harm from omitted and delayed medicines in hospital', Feb 2010. NPSA/2010/RRR009.



Background

• Baseline investigation on 6 MHCOP wards:

– Missed dose rate = 1.07%

- Equates to approx. 2900 missed doses a year
- Project aim:
 - To reduce omitted doses of medication to less
 than 0.5% of total doses due by the end of March
 2015



Driver diagram

Reducing omitted doses of medication on the MHCOP wards





Sequence of PDSA's

Cycle 4: Individualised ward poster published fortnightly.

Cycle 3: Missed dose league table published fortnightly.

Cycle 2: E-mail ward managers informing of the missed dose rate on their wards and asking for action

Cycle 1: Issue bulletin highlighting missed doses will be monitored

Example of league table

Missed Doses of Medication on MHCOP Wards

Date of publication: 19th November (Issue 8)

Time covered by data: 2 weeks

Wa	rd	No. doses due	No. doses not signed for	% doses not signed for
1	Cedar Lodge	1292	0	0.00%
2	Columbia	2327	1	0.04%
3	lvory	2058	2	0.10%
4	Larch Lodge	1172	2	0.17%
5	Thames House	1601	3	0.19%
6	Leadenhall	2768	19	0.69%
Total		11,218	27	0.24%

Example of ward poster









Data

- Before the project:
 - Missed dose rate during 6-weeks baseline monitoring:
 - 1.07% (2,871 missed doses per year)
- After the project:
 - During the past 6 weeks:
 - 0.06% (154 missed doses per year)
 - 2717 missed doses prevented



Financial data

- Estimate of cost-saving:
 - 2717 medication errors will result in an average of
 26 adverse drug events¹
 - One adverse drug event is estimated to cost
 £1,477²
 - Cost-saving from avoiding 26 adverse drug events per year on 6 MHCOP wards: £38,402

1: Bates DW *et al*. Relationship between medication errors and adverse drug events. J Gen Intern Med. 1995 Apr;10(4):199-205.

2: Senst BL *et al*. Practical approach to determining costs and frequency of adverse drug events in a health care network. Am J Health Syst Pharm. 2001 Jun 15;58(12):1126-32



Learning

- Raising awareness of a problem can lead to improvement
- Allow teams to develop their own strategies for action
- Healthy competition can help drive improvement
- We should reward good practice rather than punishing bad
- Visual display of information can be very effective



Future plans

- Plan to test on other inpatient wards
- Plan to test further change ideas:
 - Monthly league tables rather than fortnightly
 - Link with psychology QI project:
 - Mindfulness training for staff giving medication