Prescribing Optimisation Method

An effective educational tool for medical students to master polypharmacy

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How to optimise polypharmacy

Prescribing Optimisation Method

Judgemental (implicit) method

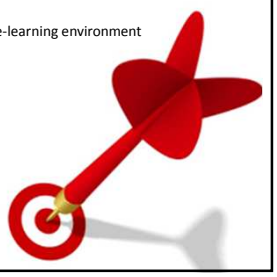
1. Actual use
2. Side effects
3. Undertreatment
4. Overtreatment
5. Interactions
6. Dosage (kidney function)

Includes explicit methods: START/STOPP

Is the POM an effective tool for medical students to master polypharmacy?

With or without e-learning?

How is the satisfaction on the method and the e-learning environment



Randomised controlled trial

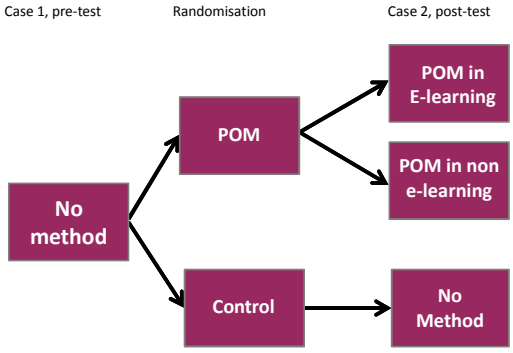
103 final year medical students

2 faculties of medicine

Sources as in clinical practice e.g. internet

Cases based on real life cases

Study design



Medication list students vs expert panel

Each drug: right or potentially harmful decision

Baseline results

control vs intervention

Variable	Unit	Control (n=53)	Intervention (n=50)	p-value
Age	median (range)	25 (23-32)	25 (23-40)	0.38
Gender	% female	75	58	0.06
Location	Utrecht n Amsterdam n	27 26	24 26	0.77
No. of weeks before graduation	median (range)	12 (6-42)	12 (6-40)	0.98
Relevant pre-training	Non/non-relevant Relevant	44 9	41 9	0.89
Score pre-test	Right decision n (SD) Harmful decision n (SD)	5.8 (1.7) 3.4 (1.5)	5.2 (1.5) 3.4 (1.0)	0.11 0.99

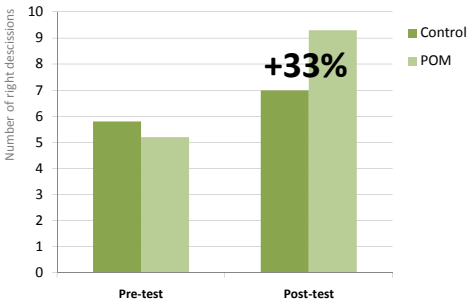
Baseline results

e-learning vs non-e-learning

Variable*	Unit	E-learning (Faculty 1)	Non-e-learning (Faculty 2)	p-value
Age	median (range)	26 (23-38)	24 (23-40)	**0.00**
Score pre-test	Right decision n (SD)	5.1 (1.6)	5.9 (1.6)	**0.01**
	Harmful decision n (SD)	3.6 (1.2)	3.2 (1.2)	0.11

*Only differences

Main Results

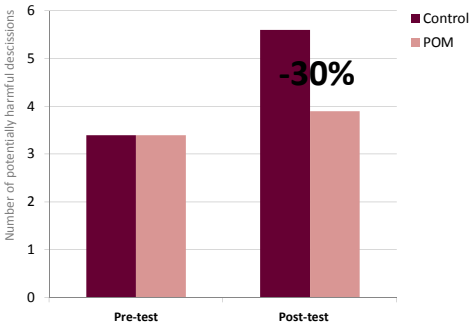


Posthoc: unpaired t-test on post-test p<0,05

Main Results

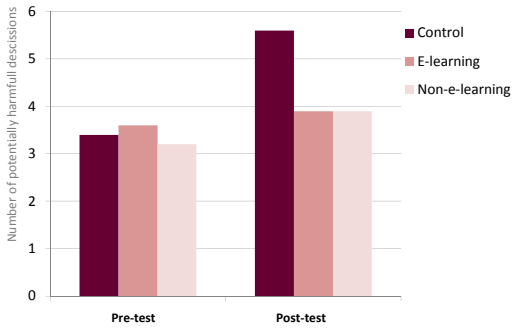
Posthoc: unpaired t-test on post-test: elearn vs non elearn: n.s.

Main Results



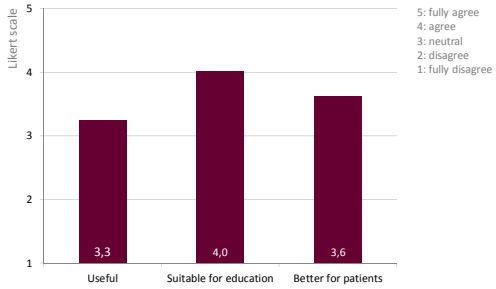
Posthoc: unpaired t-test on post-test: p<0,05

Main Results

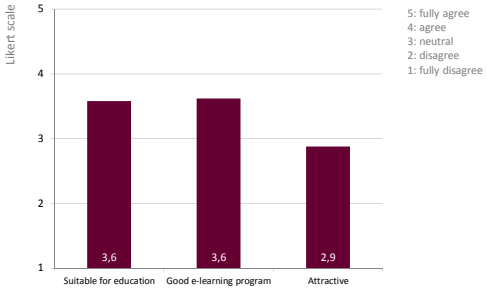


Posthoc: unpaired t-test on post-test: e-learning vs non e-learning: n.s.

Satisfaction POM method

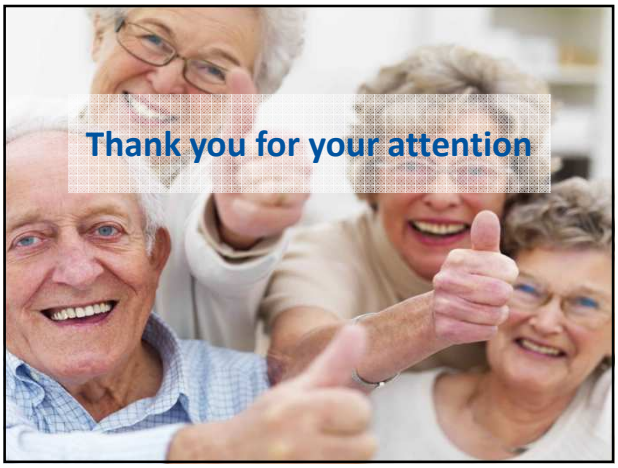


Satisfaction e-learning



Prescribing Optimisation Method

A well appreciated and effective educational tool for medical students to master polypharmacy


Thank you for your attention