Royal College of Surgeons in Ireland

Coláiste Ríoga na Máinleá in Éirinn



OPTI-SCRIPT study <u>Optimizing Prescribing for Older People in Primary Care: a cluster randomized controlled trial</u>

Barbara Clyne (on behalf of OPTI-SCRIPT trial team)
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Overview of presentation



- OPTI-SCRIPT study development
- Methodology
- **OPTI-SCRIPT** results
- Summary











OPTI-SCRIPT study development



Clyne et al. BMC Health Services Research 2013, 13:307 http://www.biomedcentral.com/1472-6963/13/307



RESEARCH ARTICLE

Open Access

Addressing potentially inappropriate prescribing in older patients: development and pilot study of an intervention in primary care (the OPTI-SCRIPT study)

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Study design & methodology – cluster RCT



- GPs inclusion criteria:
 - Based in greater Dublin area
 - 80+ patients aged over 70
- Patients inclusion criteria:
 - Aged 70+
 - Had PIP as per study list
- Recruited and baseline data collection prior to minimisation











Study overview



Minimisation

Intervention

- Academic detailing with a pharmacist
- Medicines review with web-based treatment algorithms
- Patient information leaflets

Control

- Letter with recruited patients and identified PIP
- Continue to provide usual care

PCRS – National Contemporaneous Control

- Observational comparison to national prescribing data (376,858 patients, 2,000+ practices)











OPTI-SCRIPT website



OPTISCRIPT

Online Resource



Patient ID: 15	Patient ID: 18	Patient ID: 23
Proton Pump Inhibitors (PPIs)	To Do Long Acting Benzodiazepines	Done Long Acting Benzodiazepines Done
Full Therapeutic Dose > 8 weeks	long acting, long term (>1 month)	long acting, long term (>1 month)
PIP Outcome Form	To Do PIP Outcome Form	Done PIP Outcome Form Done
Please fill this in for each PIP!	Please fill this in for each PIP!	Please fill this in for each PIP!
Non-steroidal anti-inflammatory	To Do	Non-steroidal anti-inflammatory To Do
drugs (NSAIDs)		drugs (NSAIDs)
Warfarin, SSRI, ACE inhibitor, Diuretic, Cong	gestive	Warfarin, SSRI, ACE inhibitor, Diuretic, Congestive
Heart Failure, Peptic Ulcer Disease, Long-tern	n use for	Heart Failure, Peptic Ulcer Disease, Long-term use for
mild osteoarthritis		mild osteoarthritis
PIP Outcome Form	To Do	PIP Outcome Form To Do
Please fill this in for each PIP!		Please fill this in for each PIP!













OPTISCRIPT

Online Resource



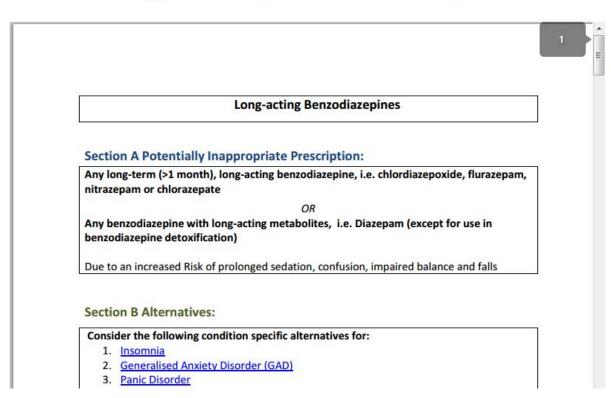
Complete

Outcome

Form

Long Acting Benzodiazepines

















OPTI-SCRIPT RCT results



- **Participants**
 - 21 GP practices (32% cluster response rate)
 - 196 patients (37% response rate)
- **Minimisation**

Intervention	Control	
11 practices	10 practices	
99 patients	97 patients	









Study design & methodology – cluster RCT



- Primary outcome measure:
 - Proportion of patients with no PIP
 - Mean PIP per group
- Data collection baseline & immediate post intervention
- Between group differences:
 - Random effects logistic regression
 - Cluster mean
 - Random effects poisson regression
- **Process evaluation**











Summary



- Developed web-based intervention to target PIP in primary care
- Effective odds of having no PIP in intervention higher than control
- National comparison showed odds of no PIP higher in intervention group also
- Process evaluation gave insight into intervention delivery and barriers









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The OPTI-SCRIPT trial team

Barbara Clyne, Professor Susan Smith, Professor Tom Fahey, Dr. Marie Bradley, Professor Carmel Hughes, Dr. Janine Cooper, Dr. Fiona Boland, Dr. Ronan McDonnell, Professor David Williams, Mary-Claire Kennedy, Dr. Daniel Clear,

PCRS data analysis

Frank Moriarty, Dr. Caitriona Cahir







