

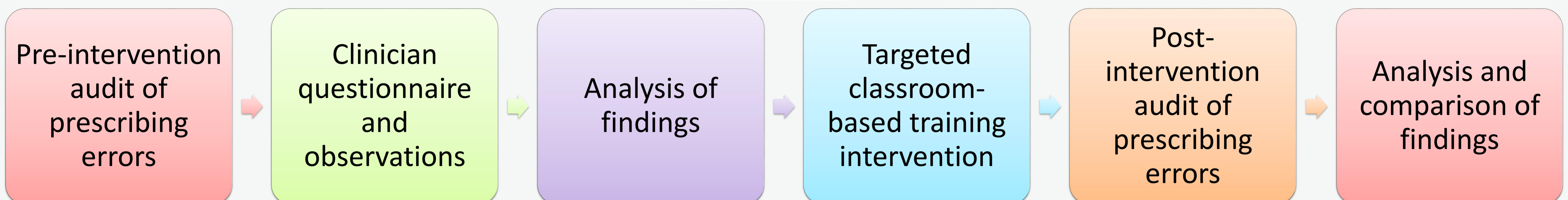
The effect of a prescriber training intervention on the prevalence of prescribing errors found in an electronic prescribing system

Nevin F^{1,2}, Melanophy G¹, Collins A¹, Moriarty M¹, Courtney G¹, Grimes T², Stephens G²

1. St. James's Hospital, Dublin, Ireland. 2. Trinity College Dublin, Ireland

Ms. Fionnuala Nevin: fnevin@stjames.ie

WHAT WAS DONE?



WHY WAS IT DONE?



- The literature stresses the importance of training for users of electronic prescribing systems (ePSs).
- There is a lack of evidence in the literature to demonstrate the effect or impact of ongoing training.
- Aims:
 - a) Determine the effect of a training intervention on the prevalence of prescribing errors in an ePS.
 - b) Inform the case for staff training resources for ePSs.

HOW WAS IT DONE?

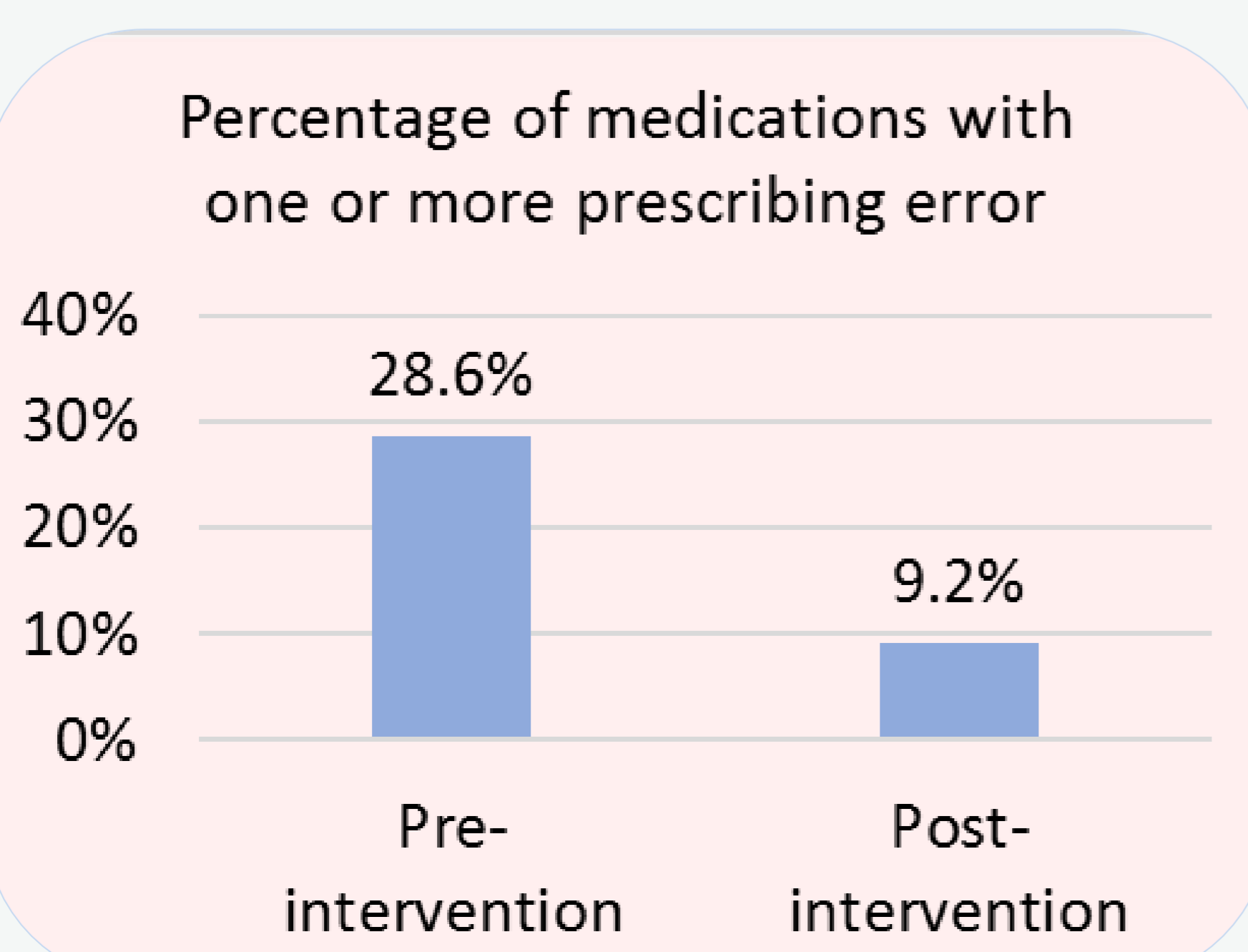


- Audit and feedback methods used.
- Key stakeholders recruited and assisted in the planning and delivery of the study methods.
- Key stakeholders used to gain participant buy-in.
- Audit tools and questionnaire were piloted to test their design and allow adjustments based on feedback.
- Training intervention informed by audit results, questionnaire, and observations.

WHAT HAS BEEN ACHIEVED?



- Significantly more medications prescribed pre-intervention contained one or more errors when compared with post-intervention (see chart below).
- Most errors found were deemed to be system-related errors.
- The study demonstrates the positive impact ongoing training can have on users' interactions with an ePS.
- The study supports the need to provide adequate training resources for users of ePSs.



WHAT NEXT?



- Use the results to:
 - a) Highlight that, despite initial training, errors can still occur in ePSs and must be addressed.
 - b) Make a case for training resources for ePSs.
 - c) Inform system design for ePSs.
- Use the methods to:
 - a) Deliver future training interventions



Scan the QR code to download the poster to your phone

References:

1. Velo G.P. & Minuz P. (2009) Medication errors: prescribing faults and prescription errors. British Journal of Clinical Pharmacology, 67, 624-628.
2. Westbrook J.I., Reckmann M., Li L., Runciman W.B., Burke R., Lo C., Baysari M.T., Braithwaite J. & Day R.O. (2012) Effects of two commercial electronic prescribing systems on prescribing error rates in hospital in-patients: a before and after study. PLoS Med, 9, e1001164.