

Targeted Education ApproaCH to Improve Peritoneal Dialysis Outcomes (TEACH-PD) – Feasibility Study

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Introduction

There is substantial variation in peritonitis rates across peritoneal dialysis (PD) units globally. This may, in part, be related to the wide variability in the content and delivery of training for PD nurse trainers and patients. The aim of this study was to test the feasibility of implementing the TEACH-PD curriculum in real clinical practice settings.

Methods

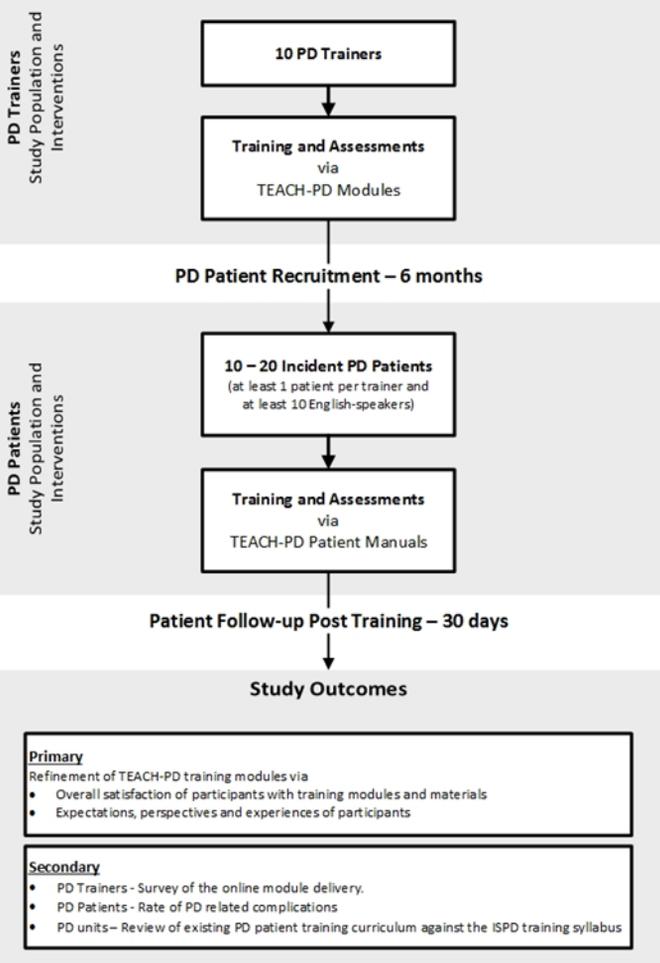
This study used mixed-methods including questionnaires and semi-structured interviews (pre- and post-training) with nurse trainers and patients to test the acceptability and usability of the PD training modules implemented in two PD units over six months. Quantitative data from the questionnaires were analysed descriptively. Interviews were analysed using thematic analysis.

Results

Ten PD trainers and 14 incident PD patients were included. Mean training duration to complete the modules were 10.9 hours (range 6-17) and 24.9 hours (range 15-35), for PD trainers and patients, respectively. None of the PD patients experienced PD-related complications at 30 days follow up. Three (21%) patients were transferred to haemodialysis due to non PD-related complications. Ten trainers and 14 PD patients participated in the interviews. Four themes were identified including use of adult learning principles (trainers), comprehension of online modules (trainers), time to complete the modules (trainers) and patient usability of the manuals (patient).

Pilot Study Locations

John Hunter and Wollongong PD units



Peritoneal dialysis patients' responses to satisfaction questionnaire (n=14)

Question	Scoring	Median	Range
Overall, how easy was the manual to complete?	0 = Impossible to complete 10 = Very easy to complete	9	7-10
Did you like the layout of the manuals?	0 = hated the layout 10 = loved the layout	8	3-10
Did you feel you were well-prepared for the assessments?	0 = Completely unprepared 10 = Well prepared	9.5	5-10
Were you happy with how long the training took to complete?	0 = not enough time, 5 = perfect amount of time, 10 = too much time	5	3-10
How ready do you feel to start PD at home?	0 = Not ready at all 10 = Completely ready	9	5-10
Would you recommend the TEACH-PD training manuals to others?	0 = Never 10 = Highly recommend	10	6-10

Contact Information

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Conclusions

This TEACH-PD study has demonstrated feasibility of implementation in a real clinical setting. The outcomes of this study have informed refinement of the TEACH-PD modules prior to rigorous evaluation of its efficacy and cost-effectiveness in a large-scale study.