Quality Improvement Conference

Improving Prescribing Practices of Benzodiazepines (BZDs) & Z-drugs within the Outpatient Setting

Dr Seet Xian Ying
Dr Janine Kee Wun Yoke

xian_ying_seet@ttsh.com.sg
janine_wy_kee@ttsh.com.sg



Problem Statement

- There are no existing guides or prescribing limits in TTSH. Most patients are not given Patient Information Leaflet.
- In a cohort study, a third of working-aged persons and more than half of older persons developed long-term use of BZDs after initiation.
- Extended use of BZDs and Z-drugs lead to difficulty in future dose reduction, increased risk of dependence and long-term side effects.

Reference: Taipale, H., Särkilä, H., Tanskanen, A et al. (2020). Incidence of and Characteristics Associated With Long-term Benzodiazepine Use in Finland. *JAMA Network Open.* 2020;3(10):e2019029.

Project Aim

Improve safe prescription[^] of Benzodiazepines (BZDs) and/or Z-drugs amongst psychiatry outpatient First Visits (FVs) from baseline of 36% to 80%* over 6 months

- ^ counsel (patient or NOK) on reviewing necessity of Benzodiazepines / Z-drugs OR future dose reduction
- * independent specialist review of first visit data suggests that after considering the severity of the clinical condition of patients seen, it was still fair to discuss reviewing necessity and future dose reduction for an average of 84% of the patients at the first visit.

Lessons Learnt

- 1. The importance of both process and clinical outcomes, being clear about the measurable and thinking about clinically meaningful data.
- 2. Benefits of being exacting or **taking time** to go through the entire CPIP process
- **3. Engaging stakeholders**, shaping the narrative based on who you are engaging.
- 4. The importance of using data to **regularly provide feedback** and ensure that stakeholders remain engaged
- 5. Always **going back to the core reason** of why we are doing this project patient safety, safe prescribing, protecting our clinical practice.

Potential Solutions

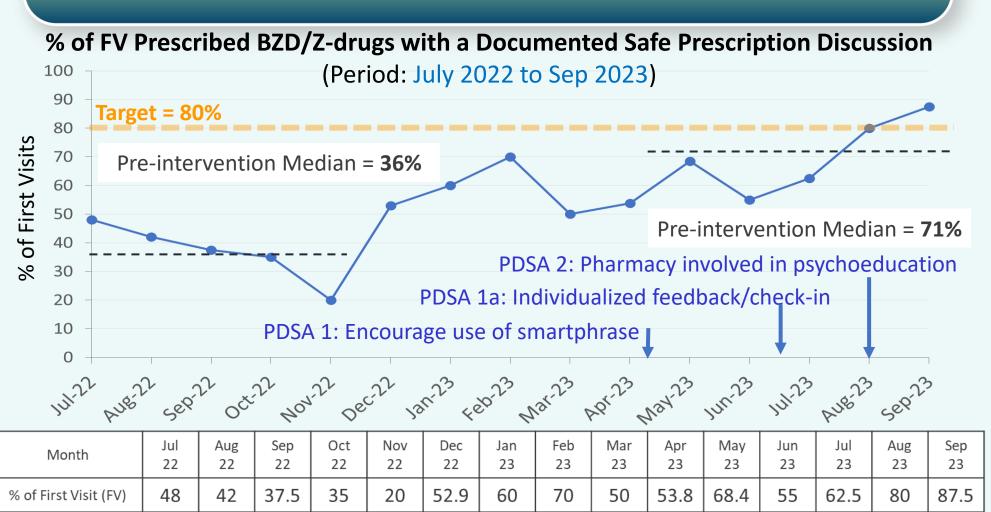
Root Caus	e	Intervention	Implementation Date
Many		PDSA 1: Introduction of	1 May 2023
component	S	department smart-phrase	
of FV to		(indication, specific	E-11 (10 TO 2 113)
document		components, use PRN, dose	
		review, side effects) while	
Forget Epic shortcuts		allowing clinician autonomy	

Smart Phrase ".tpsybzd"

Indication of Benzodiazepine explained
Reiterated to use Benzodiazepine as required PRN and we
will review doses at next visit
Patient counselled on side effects of Benzodiazepine

Patient	PDSA 2: Pharmacists to be	1 Aug 2023
Information	involved in psychoeducation	1
Leaflet not	of side effects for patients	
given to	newly started on	
patient	Benzodiazepines / Z-drugs	

Outcomes & Impacts



- GOOD (PROCESS) OUTCOME: Improved safe prescription of BZDs and/or Z-drugs amongst psychiatry outpatient FVs from 36% to 71%
- CLINICAL OUTCOMES: Clinicians prescribing less at FV, more likely to reduce or stop at six months.
- BALANCE MEASURE: 7 out of 8 patients surveyed appeared to be using the medication appropriately
- VALUE: Absolute cost of benzodiazepines is low (est. \$212 per annum), however, the full economic cost to healthcare is much higher (e.g. cost of clinic visits, falls risk, cognitive impairment).