

Strategies to Improve Smart Pen Uptake – Lessons Learned from a Pediatric Diabetes Center

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BACKGROUND

- Results from the T1DX-QI Connected Pens Barriers and Facilitators research project were utilized to develop testable interventions
- Connected Pens offer an alternative to insulin pump therapy that can lead to improvements in diabetes management through reports demonstrating dose visibility, accountability, and calculations

OBJECTIVE

- To increase connected pen data use for shared decision making and overall glycemic improvement in an equitable manner

METHODS

PDSA cycle 1-3: DTA questionnaire

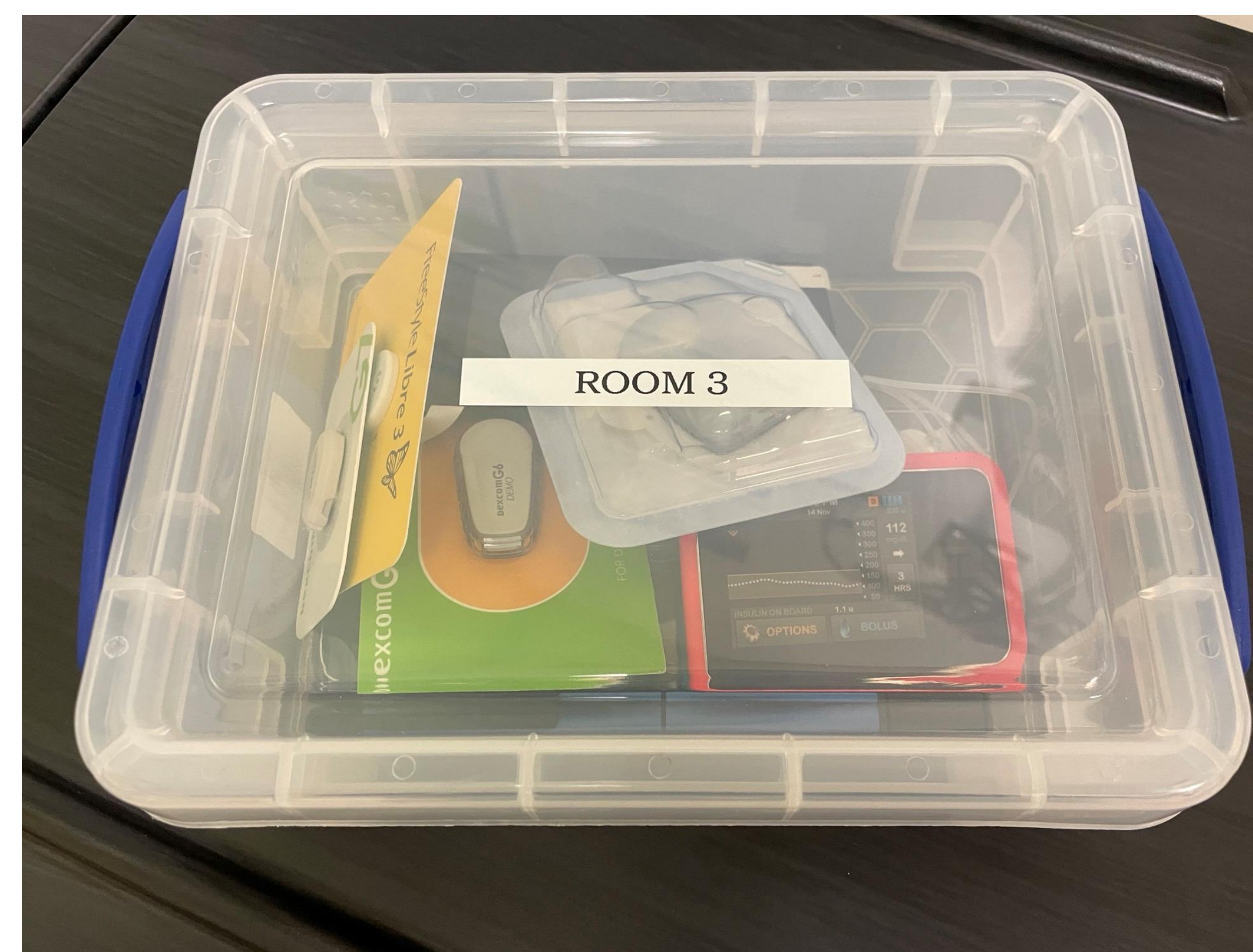
	Strongly Disagree (1)	Disagree (2)	Neutral (3)	Agree (4)	Strongly Agree (5)
1) Diabetes technology has made my life better					
2) Diabetes technology has made my life easier					
3) Diabetes technology has made my health better					
4) Diabetes technology does more good than bad					
5) I am lucky to live in a time with so much diabetes technology					

Methods (Cont)

Key Driver	Intervention	PDSA
Communication/Shared decision making	Develop tools to help facilitate discussion	Cycle 1-3: DTA Cycle 4: Technology Laminate Cycle 5: Technology Sample Box

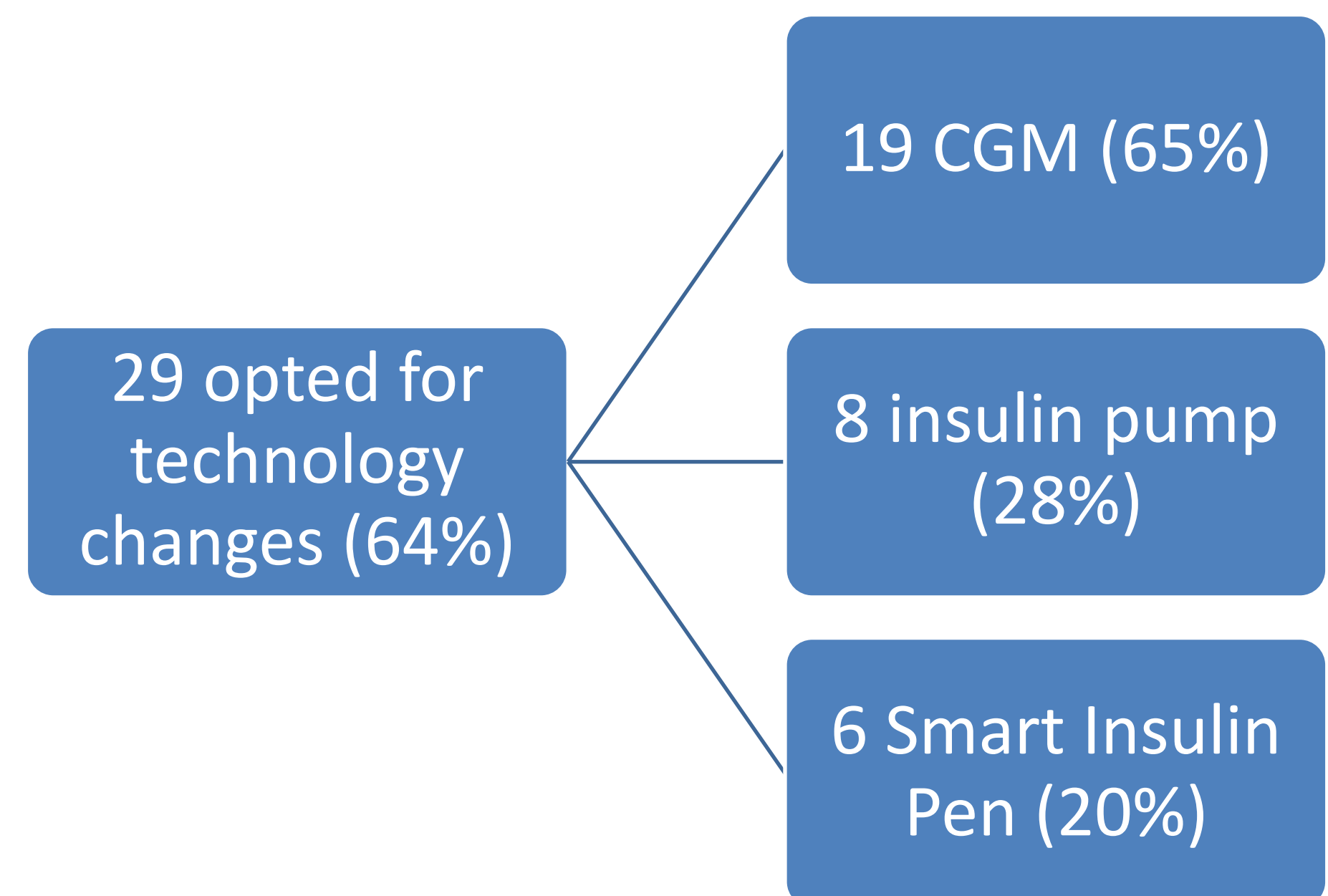
PDSA cycle 4: Technology laminate

PDSA cycle 5: Technology sample boxes



Results

- Between Dec 2022 to April 2023, we documented 45 shared decision making



- None succeeded in transitioning to connected pen

CONCLUSIONS

- Barriers to connected pen initiation
 - copay requirement
 - lack of insulin cartridge samples in clinic to facilitate in-clinic device training
 - poor responsiveness when trainer reaches out to family
- **Clinic process change:** technology sample boxes are now placed in every patient room for our clinicians to utilize when discussing technology with family

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