

starts on

tech

Increasing Equitable Access in Diabetes Tech among Patients with Type 1 Diabetes Across a Health System

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Background

- Diabetes technologies improve glycemic control, lower hypoglycemia risk, and enhance quality of life
- Access inequities arise from insurance disparities, high costs, and restrictive eligibility, and provider bias, leading to lower adoption in minorities and low-income groups
- Addressing these issues is essential to reduce health inequalities and improve well-being for underserved populations
- We compared technology uptake and quality improvement responses integrate all payors versus sites which have different practices for private and Medicaid/Medicare insurance

between two clinic models within our healthcare system—sites which Fishbone Diagram Comfort with using tech Which device to use? Scheduling training No standard company training Lost to follow up Difficulty getting supplies, CGMs, insulir Insurance issues or changes Patient access to phones/computers Clinic access to shared data Diabetes tech not used Clinician inertia and implicit bias Intermittent rep support Provider comfort with tech Difficulty completing prior auth forms Confusion over how to prescribe Lack of follow up with same provider Time constraint of short visits Lack of support staff or variability Lack of follow up with same provider Prescribing to various pharmacies Differences in billing/coding Communications not streamlined Prescriber **Environmer** Figure 1: Fishbone diagram Process Map Provider offers tech Clinician inertia/implicit bias No standardized Lack of familiarity in tech education in clinic Differences in suppor Provider familiarity No therapeutic relationships staff across sites Communications not streamlined **Patient** Insurance continues Issue with prior auths Large patient cost Patient comfort with using tech Insurance issues or Unable to receive tech or No company training supplies through No standard prescriber training pharmacy **Patient** Patients lost to follow up

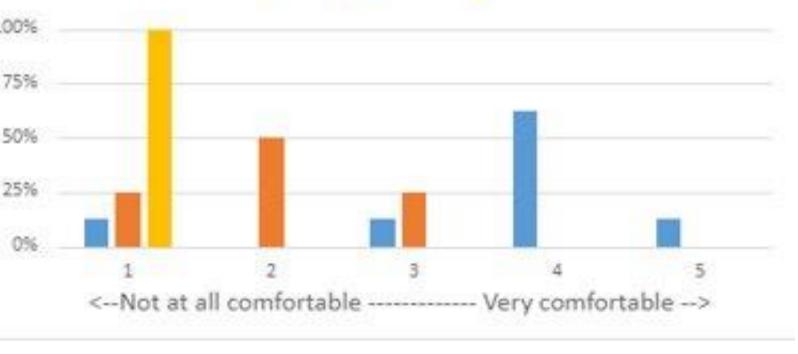
Figure 2: Process map

Baseline Data

Baseline fellows survey

Collected July 2024

Fellows' Comfort in Prescribing CGM Pumps SIP

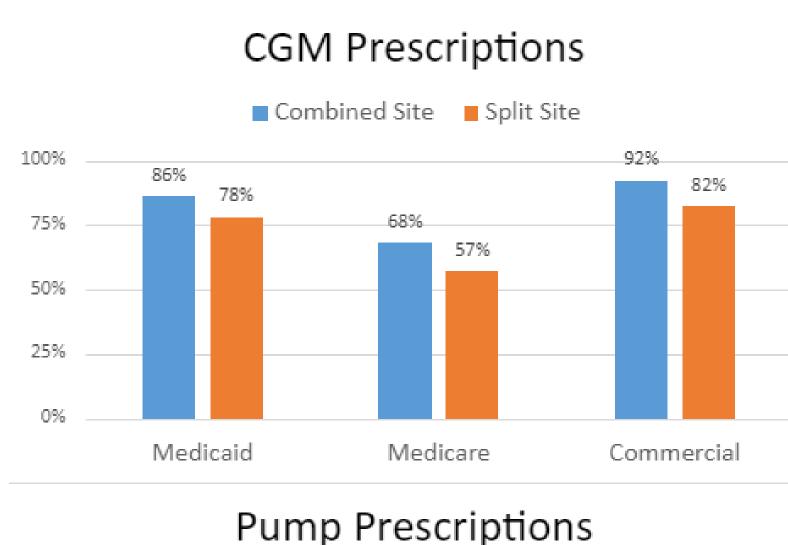


- Low comfort with pumps with variable prescribing rates
- Not at all comfortable with SIP, 0 were prescribed
- Overall comfortable with prescribing CGM with higher self-reported prescription rate

Fellows' Prescription Rates CGM Pumps SIP Reported Number of Prescriptions

Figure 3: Baseline fellows survey

Baseline EHR data comparing combined vs split sites Collected July 2023-July 2024



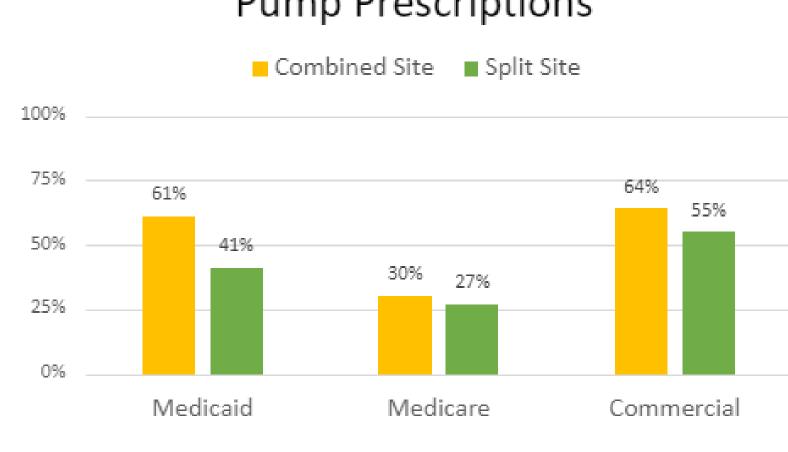


Figure 4: Baseline EHR data

- More tech use with commercial insurance
- More tech use at combined site for all insurance types
- Greatest disparity between commercial/Medicaid payors is pump use at split site
- Very low prescription of SIP overall: 1-4%
- Limitations: dependent on accurate diagnoses codes to capture insulin pump status and CGM analysis

	Combined (n=378)	Split (n=953)
CGM		
Medicaid	86% (114/132)	78% (81/104)
Medicare	68% (36/53)	57% (92/161)
Commercial	92% (178/193)	82% (564/688)
Pumps		
Medicaid	61% (80/132)	41% (43/104)
Medicare	30% (16/53)	27% (44/161)
Commercial	64% (123/193)	55% (378/688)
SIP		
Medicaid	2% (2/132)	4% (3/104)
Medicare	2% (1/53)	1% (1/161)
Commercial	2% (3/193)	2% (10/688)

Implementation



Recommended fellows refer to CDE for any new pump initiation or training

 Patient friendly technology handout in clinic rooms EPIC message sent to patients with upcoming appointments

Cycle 1 Results:

Self-reported improvement in CGM comfort, no improvement in SIP

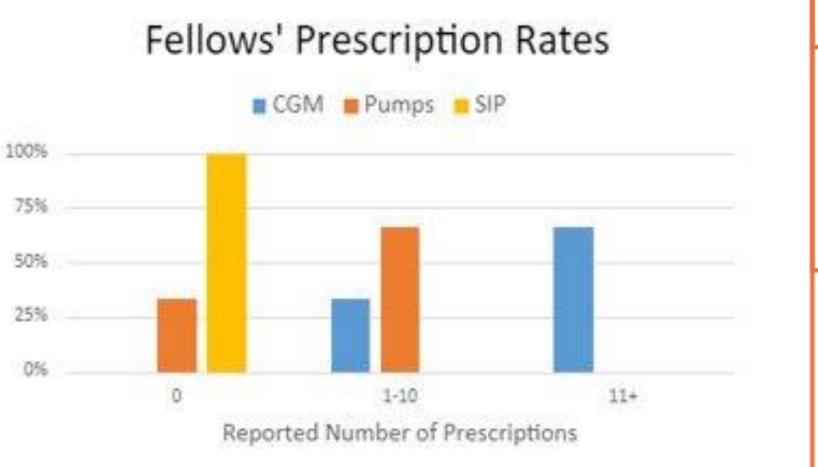
Cycle 2 Results: Reviewed T1DM patients seen by fellows in the month after Cycle 1

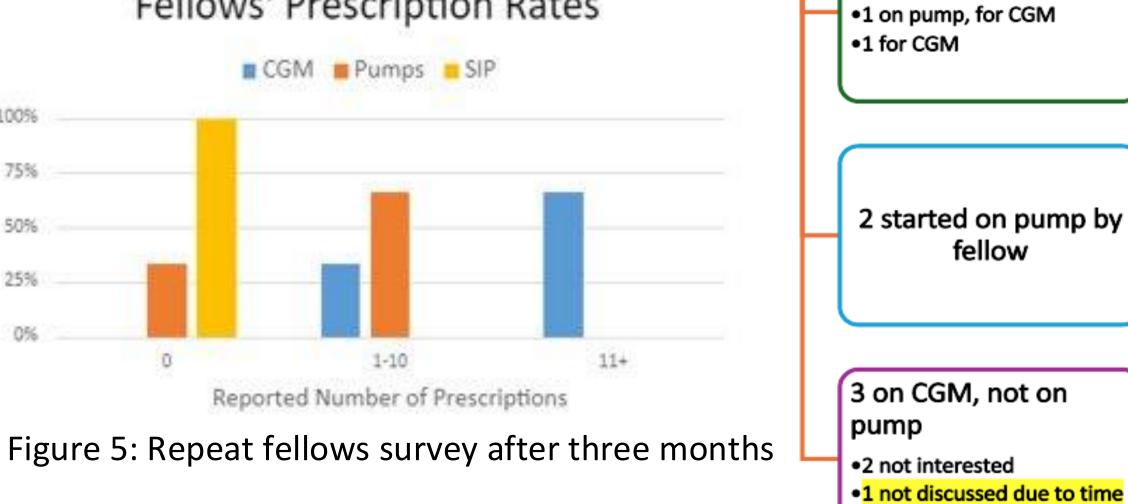
5 referred to CDE

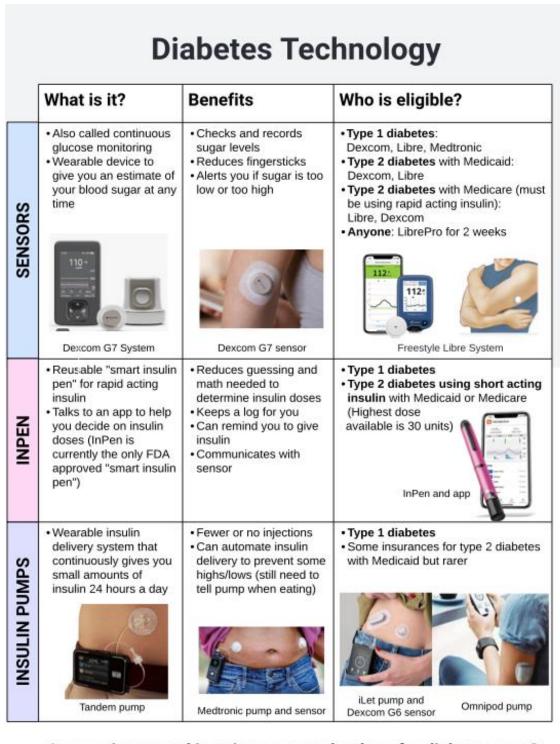
•3 for pump

Cycle 3 Results: Sent MyChart message to 41 patients not on pump

15 T1DM Fellows' Comfort in Prescribing **Patients** CGM Pumps SIP 5 patients on CGM and pump







Let your provider know!

Figure 6: Patient friendly technology handout

Next Steps

- Assess response to handout/messages (ongoing)
- Next EHR data collection at 6-month mark (~Jan 2025)
- Create EPIC Best Practice Advisory or MyChart Next Steps
- Group telemedicine education classes for patients to support transition to pump

References

Agarwal, Shivani, Marisa Hilliard, and Ashley Butler. 2018. "Disparities in Care Delivery and Outcomes in Young Adults with Diabetes." Current Diabetes Reports 18 (9). https://doi.org/10.1007/s11892-018-1037-x.

Fantasia, Kathryn L, Kamonkiat Wirunsawanya, Christopher Lee, and Ivania Rizo. "Racial Disparities in Diabetes Technology Use and Outcomes in Type 1 Diabetes in a Safety-Net Hospital." Journal of Diabetes Science and Technology 15, no. 5 (March 10, 2021): 1010–17. https://doi.org/10.1177/1932296821995810.