

Cohort 2 Equity Project Kick-off

2/3/2022

ancre

Agenda

- Rationale
- Pilot Project Update
- Participating sites
- Timeline
- Project expectation
- Deliverables
- Data status
- Feedback
- Questions



 Why are you interested in being a part of this project



CARAS FORENCE

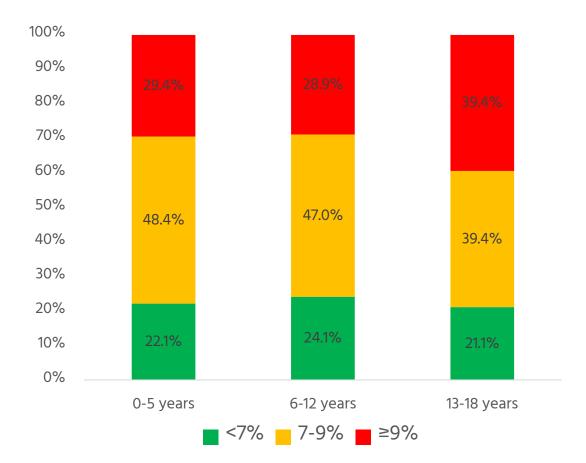


Project Rationale

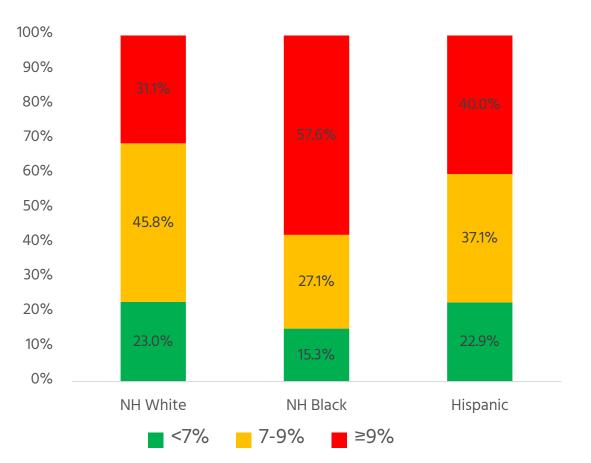
- The incidence of TID is increasing in the United States across all populations, most significantly in Hispanic youth.. When compared to non-Hispanic white patients, Non-Hispanic Black and Hispanic patients use CGM less frequently
- Despite an overall increase in the use of Pumps and CGM, NHB patients had the lowest rate of CGM use (NHB 17%; Hispanic 37%; NHW 40%; p<0.001) and Insulin pump use (NHB 41%; Hispanic 56%; NHW 60%; p<0.001)
- Although there are 73% non-Hispanic White (NHW); 8% non-Hispanic Black (NHB), 9% Hispanic, 10% Other in TIDX database, AIC was significantly different between NHW, NHB and Hispanic patients. NHB, Hispanic patients with TID (NHB 10.3%; Hispanic 9.2%; NHW 8.3%; p<0.001)



A1C distribution by age in Pediatrics



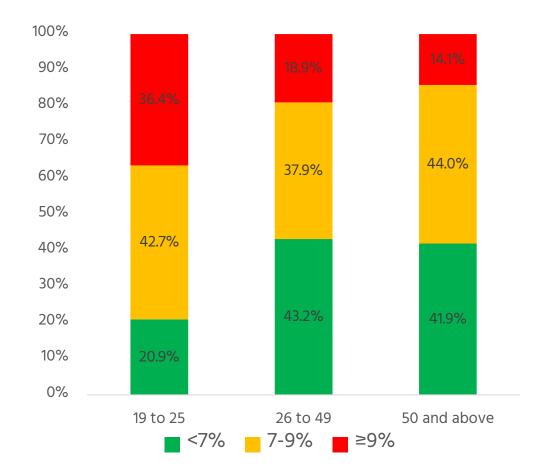
AIC by race/ethnicity in Pediatrics

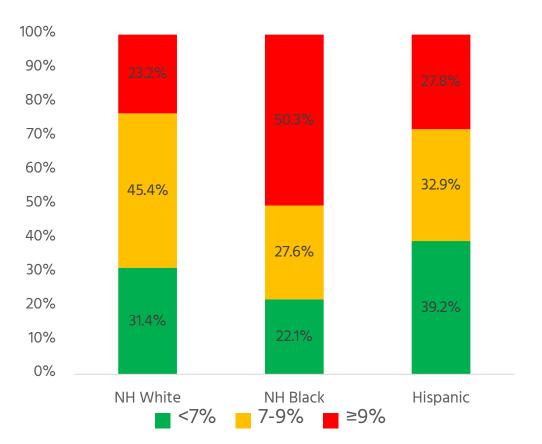


NHW-70% NHB- 40% Hispanic-60%



AIC distribution by age in Adults AIC by race/ethnicity in Adults





NHW -77% NHB- 49% Hispanic-71%



Pilot Project Highlight



Participating Sites









Montefiore







Contributing Factors

FIGURE 6 PAIN POINTS CONTRIBUTING TO INEQUITABLE CGM USE

Tier 1	Finding out specific	Providers not aware	Lag time between
	pharmacy/DME	when CGM has been	prescription and
	covered by insurance	approved or denied	initiation of paperwork
Tier 2	Need for multiple electronic prescription	High burden of complex paperwork/ insurance denials	Language barrier for non-English speakers

FIGURE 7 PAIN POINTS CONTRIBUTING TO INEQUITIES IN PUMP UPTAKE

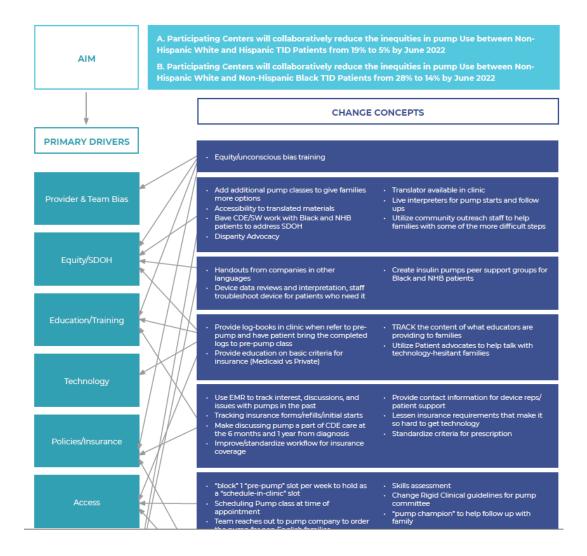
Tier 1	Difficulty contacting patients for pump classes, visits, and shipment of device	Communication to and from pump vendors to clinic/patients	Insurance issues/ denials	Stringent guidelines/ multiple paperwork for patients on public insurance
Tier 2	Language barrier/Lack of interpreter/materials not in other languages	Provider bias in offering pumps	Multiple visits/travel cost/missed school/ work	Staffing challeng es / staff turnovers
Tier 3	Lack of standardized screening tools to assess pump readiness	Provider concerns about pump safety	Patient refusal/ believes/want nothing attached to their body	Out of pocket cost for uninsured or underinsured patient



Key Interventions

DRIVER: TECHNOLOGY

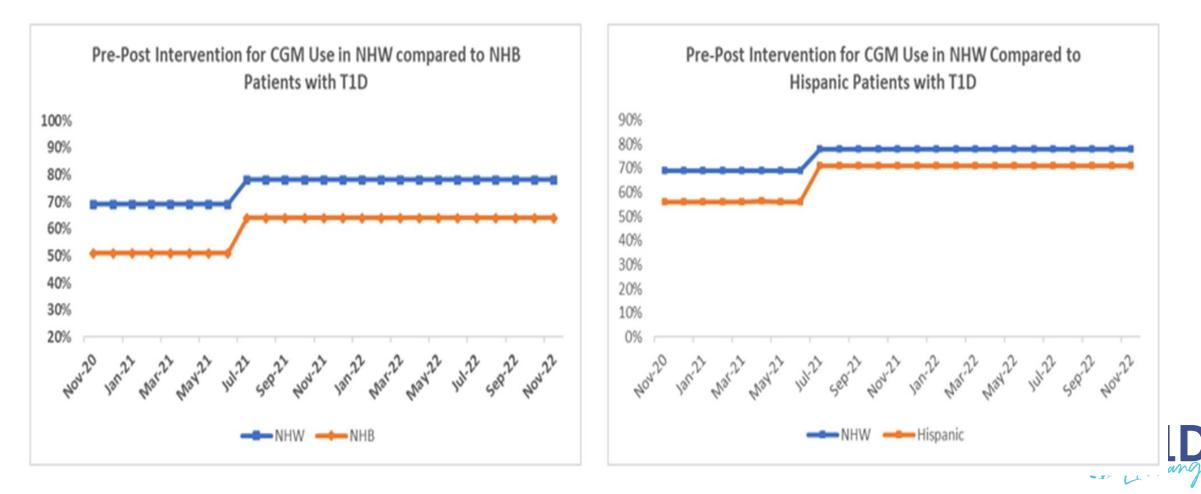
INTERVENTIONS	TOOLS/RESULT/CHALLENGES	CENTERS WHO TESTED
Discuss CGM regularly at the clinic		Site 1, 3, 4, 6, 7
Provide early access to CGM at T1D diagnosis		Site 4
Provided starter kits to patients (CGM Trial Program)		Site 1
Increase communication with DME companies through Weekly reports by DME companies to help the education team to follow up with patients and improve CGM uptake.	Weekly reporting by DME companies helped to know if the order is a refill or a new sensor.	Site 6, 7
Utilized DME to complete new and refill CGM authorization, provides weekly updates on approvals, and track authorization process. Admin staff sends update to providers when devices are delivered to patients		Site 6
Utilized pump company representative to improve post insulin pump class process and efficiency and as a resource for insulin pump initiation		Site 4,5
Standardized criteria for insulin prescription		Site 3
Increase patient engagement on Mychart to improve patient-provider communication. Messages and information such as pump flyers are shared through Mychart	<u>https://trello.com/c/</u> jbbaZXnP/37-choa-mychart	Site 2





TIDX-QI Equity Project: Cohort 1

The median increased by 7% in NHW, 12% in NHB, and 15% in Hispanic patients. The gap between NHW and NHB closed by 5% and the gap between NHW and Hispanic patient closed by 6%.



Examples of TIDX-QI CGM Equity QI Projects

Practice	Number of	Intervention	Intervention	Outcome
Туре	T1D Patients	Period (months)	Examples	
Pediatric	613	12	 Patient education folders for families CGM champion built a relationship with DME company 	 6% Increase in NHB CGM use. 10% increase in overall center CGM Use.
Pediatric	1886	22	 Multidisciplinary team approach Targeted patient education Onboarding assistance for NHB 	 50% reduction in equity gaps between NHW and NHB persons.
Pediatric	2784	12	 CGM submission process for high-risk patients CGM evidence-based practice summary submitted to state level 	 >50% increase in CGM use for publicly insured patients.
Pediatric	1500	9	 Improving provider understanding of requirements for CGM coverage Assist patient with documentation 	 Reduced CGM disparity between public and privately insured patients from 36% to 12%.
Adult	280	23	 Single provider streamlining paperwork to one location. Including Social Worker to streamline process 	 Increase in CGM usage from 12% to 57% in NHB on public insurance.
Adult	900	31	 Conducting social needs assessments and management, Training support staff to place trial CGMs at the point of care, Optimizing prescription workflows, and Educating providers on CGM 	 30% increase in NHB CGM use. 13% increase in Hispanic CGM use.

Lessons Learned

- Quality Improvement tools were useful in increasing equitable CGM and insulin pump use
- Clinic processes and policies are different for participating sites, and interventions can be tailored to the guidelines and procedures
- Monthly team meetings was useful for sharing improvement ideas and to foster learning
- Patient/parent participation is important in brainstorming change ideas, and to understand barriers and contributors to inequities
- Timely data reporting and a dedicated and engaged QI team accelerate the success of QI
- <u>https://trello.com/c/9dNVDdWK/45-equity-change-package</u>



Equity Project Cohort 2 Sites



Participating Centers

Adult Centers

















Pediatric Centers











Timeline	Expectations
June 2022 –January 2023 (7 months)	 All participating sites will report project baseline data using the smart sheet. All participating sites will review their existing data. The baseline data review will be stratified by race/ethnicity
February 2023	 Hold Kick off meeting/Plan recurring monthly meeting Each site will identify champions for the QI project, including at least one patient/parent who identifies as Black or Hispanic
March/April 2023	 Hold Equity/unconscious bias training (5-10 participants per site) Baseline data analysis Each site will identify champions for the QI project, including at least one patient/parent who identifies as Black or Hispanic
April 2023	 Teams map out current process and annotate pain points in the process. Teams will share process map at meeting in April
May 2023	 Team will perform a fishbone activity/ create KDD and set SMART Aims
June- End of the project	 Use PDSA Cycle to test intervention starting with one provider and scaling across the clinic. Weekly/bi-weekly Plan-Do-Study-Act cycles; Each team will complete at least 15 PDSA cycles
June –End of the Project	 QI documentation: Each site will share PDSAs results with other team at monthly meetings and share updates using RAIL tool
Deliverables	 Abstracts, manuscripts, change package, patient focus group

Equity/Unconscious Bias Training

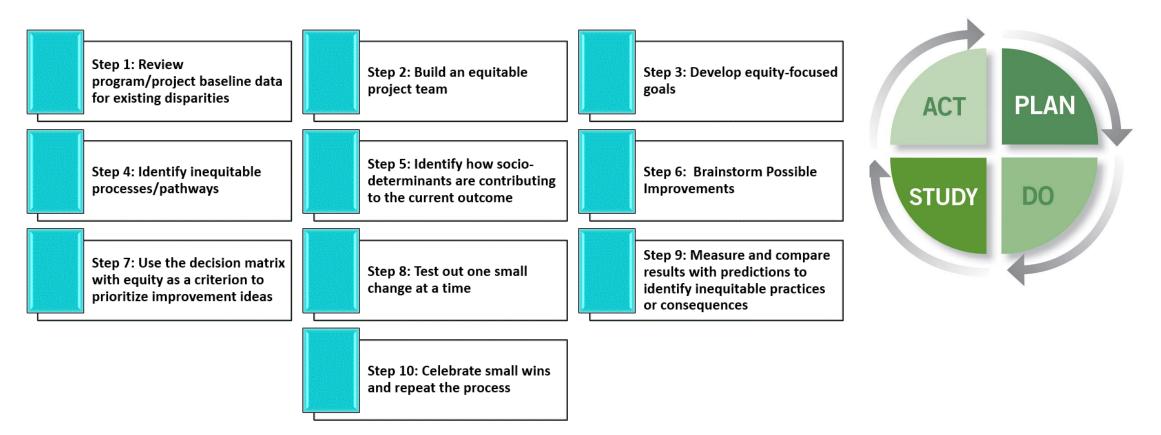
Driving Equity Consulting

Training will hold in March Morning or Afternoon session At least 5-10 members per site Survey to participants before the training



TID Exchange Equity Framework:

Figure 3: Equity Framework



Ebekozien OA, Ori Odugbesan et al Equitable Post COVID-19 Care: A Practical Framework to integrate Health Equity in Diabetes Management. Journal of Clinical Outcomes and Management Nov 2020 https://doi:10.12788/jcom.0025



Project Expectation/Team



Example of Diverse Team for a Participating Site

Patient Advisors

Physician Champion:

Social Worker:

Nurses/Nurse Educator:

Nutrition Educator/Dietician:

Data Systems Analyst

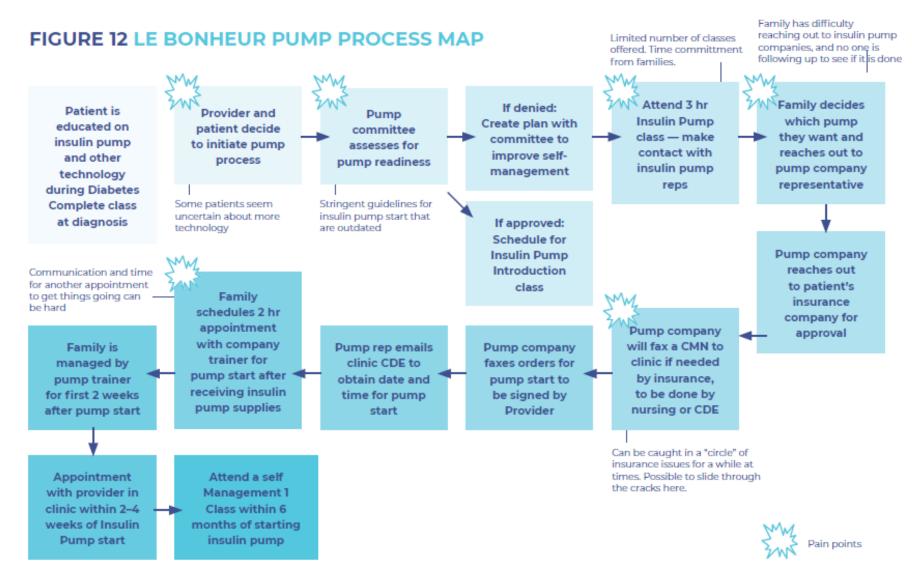
<u>QI Coordinator</u>:

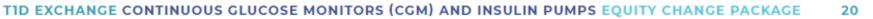
*We expect every team to have patients who identify has NHB or Hispanic to be a part of the project for advisory patient feedback on equity barriers and improvement suggestions

Team Expectation/Process Maps



Example of Insulin pump process map







Example of CGM process map

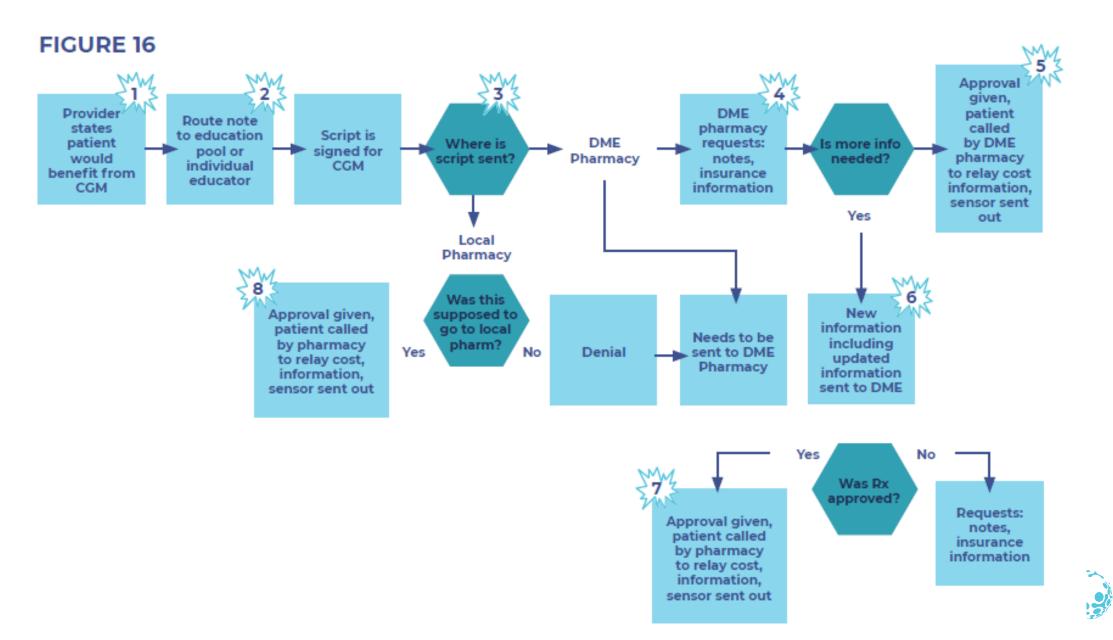
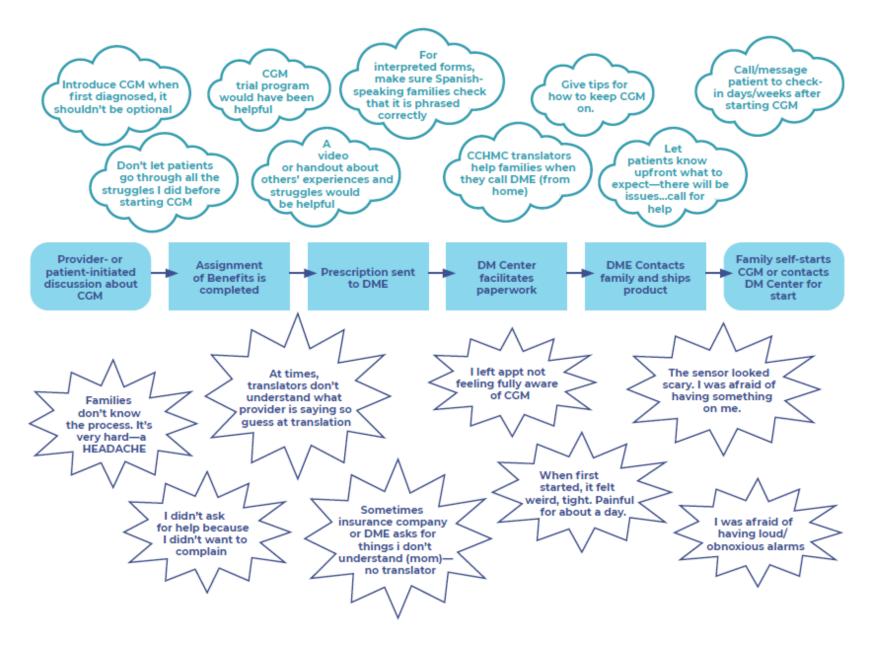


FIGURE 14 CGM PROCESS: BARRIERS AND CHANGE IDEAS





Group Expectation/Fishbone



Contributing Factors

POLICIES & PROCEDURES

- Insurance problems—denials
- Insurance reauthorizations for refills
- DME procedures complicated
- Insurance requiring certain
 number of glucose checks per day
- Variation among payer requirements and impact on clinic standard work process

PRODUCT

- Cost/copay
- Dexcom complicated with transmitter and sensor, Libre easier but possibly not as accurate
- Automated systems availability
- Technology brand/type

EQUITY

- Provider bias
- Education staff bias
- Language limitations
- Social determinants of health
- Cost/Insurance access
- Issues with trust in medical system
- Family's job does not allow them to make it to clinic appt

Disparities in CGM device uptake

PLACE

- Need to have appointment in clinic to get process started
- Family not able to get to clinic
- Problems with CGM technology at home
- Problems with companies and clinic only being available during working hours

PROCESS

- Complicated process with multiple bottlenecks and breakdown points
- Potential language barriers
- Clinic appointment access and flow
- Not a streamline process for CGM uptake
- Paper instead of automated process
- Ordering and shipment delays
- No streamline process for CGM uptake

PEOPLE

- Staffing limitations
- Provider bias
- Patient technology/adoption anxiety
- Patient family utilization literacy
- Communication barrier patient/ provider/supplier
- Lack of provider education/ awareness
- Competing priorities amongst patients

Team QI project Documentation/RAIL Tool



PDSA Worksheet

	PDSA Worksheet
Project Title:	Test Cycle Number:
Change Idea:	
Test Cycle Start Date	Test Completion Date:
PLAN (to be completed before the test cycle)	
	le: What are you trying to accomplish? Action steps to carry out the test cycle (who, what, where & when)
What do you predict will happen in this cycle? (N	lake sure its realistic)
DO: (to be completed after the test cycle)	
What happened? Describe your observations an	d data. Was there anything that occurred that was not part of the plan?
STUDY: (to be completed after the test cycle	
Did the results match your prediction?	Yes No
How did the results compare to your prediction?	Was the process efficient? Did you encounter unexpected effects? What where your general observations? What did you learn?
ACT: (to be completed after the test)	
	Debrief with the team and decide on next steps based on what you observe from the study phase



T1D Continuous Glucose Monitoring (CGM) Equity - <u>R</u> olling <u>A</u> ction <u>I</u> tem <u>L</u> ist							
	AIM: Redu	ce the inequity of CGM tecl	hnology access	/utilization among White a	nd Black T1D patients		
Key Driver	Interventions	PDSA	Point Person	Progress Note	Next Steps	Next Report T1Dx	Status
CGM initiation	Standardize criteria and educational documents for CGM initiation for providers and patients Best Practice Alert reminder Ongoing CGM patient education	1. Review status of each intervention to assure operational	Kajal	Each intervention in place, measurable, monitored.	Schedule periodic management review to assure consistancy	1/19/2021	
Verbal and Written Language	Translation of written education and after-visit instrudctions	2. Translation materials and class into Somali and Spanish	Beth			1/19/2021	
Comprehension	Translation of supplier instructions	3. Reach out to suppliers to inquire possibilities	Beth			1/19/2021	
	Verbal translation services available in clinic and during telehealth care visits	4. Check to see availability	Beth			1/19/2021	
	Clear understanding and implementation of attendant social derminates of health	5	Don			1/19/2021	
Access to Technology	Early access to CGM at T1D diagnosis through sample program	6. Inpatient telemerty program	Justin Travis Tyler			1/19/2021	

https://trello.com/c/z23qlYIN/46-pdsa-worksheet-rail-template





CGM EQUITY HUDDLE BOARD

Childrens											
AGENDA		BIRTHDAYS					STATUS LEGEND				
Celebrations		Janis- 1/7	Rajvi- 2/2	Laur	a- 2/25						
Data		Kyle- 4/29	Alison- 6/5 Catherine- 6/25								
Financial Counseling	Financial Counseling		Amanda- 7/9 Gail- 7/11 Desireé- 7/22								
Co-Production/ Voice of	the Customer							PRESENT: Leadership removes barrier to p ssess solution	rogress		
RAIL and Misc. Action Ite	ems	Amy- 11/1	Jen- 12/1	Moli	ly- 12/3		ESCAL	ESCALATE: Issue cannot be resolved at this level.			
Next Best for Technolog	y Barriers	Sarah- 12/10	Nana- 12/22	Susa	an-		Leade	ESCALATE Leadership escalates to the next level			
		Imp	lementation	Rollir	ng Action	ltem List((RAIL)				
Key Driver	Intervention		PDSA		Owner	Deadline	Progress Notes	Next Steps	Status		
Accurate understanding of CGMs for patients/families											
Comprehensive understanding of CGMs for staff/providers											
Shared decision making between staff/providers and families/patients											
Effective and continuous communication about CGM process	Utilize coordinator roles for the CGM process: Financial counselor, insurance navigator, care coordinator					10/1/2022	New Insurance Navigator ha been hired. Will begin orienting her when her current posititon is filled. Met with financial counselor to learn how they can support our project.	s Diseminate information from financial counselor during faculty and staff meetings.			



Team Expectation/Data Reporting



Data Status

Participating Center	Smart Sheet Data Reporting	Most recent Month	Who is reporting Data?
BDC Adult		November 2022	T1DX
BMC		October 2022	T1DX
Grady			T1DX
Miami Adult			
U Penn			Site
Wayne State		November 2022	Site
CMH (Peds)		November 2022	T1DX
Rady (Peds)		February 2022	T1DX
Michigan (Peds)			Site
Cook (Peds)			T1DX



Next Steps

Continue	Map out	Recruit	Attend	
Continue monthly data reporting	Map out current clinic process for CGM, insulin pump and smart insulin Pen prescription	Recruit NHB and Hispanic patient advisors	Attend group monthly meetings	



