

Clinical Leadership Strategy



more

Recording of Main Session

https://us02web.zoom.us/rec/share/gPDD5T07xLFGGNht3gTkzaM8jDRYWn4wIS5rq7QC_V7iCwAZKZbrnBqBs9uOOl5.-6vQNmXkVLNuP5Zq?startTime=1684162905000

Passcode: #w&G8qTp



Welcome, Agenda, and Logistics



LOGISTICS

1. Mute yourself when you're not talking. Everyone will default as muted.

2. When appropriate, keep your camera on. If you need to do anything personal, stop video, leave and come back.

3. Presenters will have the ability to display and advance their own slides. Today's presentations are posted on TIDX-QI Internal member website.

4. We encourage everyone to please introduce themselves by name and affiliation, using the chat feature.

5. We encourage questions, comments, reflections throughout the conference using the chat feature.

6. Please change you name in Zoom to display your first name, last name + affiliation by clicking the three dots to the right of your camera.

7. Time is set aside for personal breaks. You can also stay in Zoom and chat with colleagues.

8. TID Exchange staff can be identified as XXX_TID and they can help with any technical difficulties.

May 15, 2023 (all times reflect Eastern Standard)

11:05-11:15 AM Co-Chair's Welcome, Logistics and Overview	Devin Steenkamp & Todd Alonso
11:15-11:30 PM T1DX-QI Update	Osagie Ebekozien
11:30-12:40 PM (15 minutes each, Q&A) Review of 2020 - 2022 Quality Measures	Ori Odugbesan (Pediatric Measures) Ann Mungmode (Adult Measures) Don Buckingham (New Centers Overview) Siham Accacha (Quality Improvement Culture)
12:40-1	:00 PM Break
1:00-1:10 PM T2DX-QI Program update	Nicole Rioles
1:10-2:10 PM Committees Report Out (10 mins each, Q&A)	Daniel DeSalvo & Carol Levy (Data Governance) Shivani Agarwal & Shideh Majidi (Publication) Amy Ohmer & Jeff Hitchcock (Patient/Parent) Ori Odugbesan & Trevon Wright (QI Champions) Joyce Lee & Marina Basina (Data Science)
2:10-2:25 PM Instru	ctions for Break Out/Break
2:25-3:25 PM Working Groups Discussions	Everybody across four Breakout rooms
3:25-3:50 PM Report Out/Closing	Devin Steenkamp & Todd Alonso



TIDX-QI network of 54 centers, caring for 85,000+ TID patients across 21 states and Washington D.C.



to T1D

Priya Prahalad, Nicole Rioles et al. T1D Exchange Quality Improvement Collaborative: Accelerating Change through Benchmarking and Improvement Science for People with Type 1 Diabetes. Journal of Diabetes. November 2021

20 adult clinics – caring for 28,000 patients with TID



20 participating adult clinics

Albert Einstein	NYU Langone
Shivani Agarwal MD MPH	Lauren Golden MD
Boston Medical Center	Oregon Health & Science University
Devin Steenkamp MD	Andrew Ahmann MD
Grady Memorial Hospital	Stanford University
Sonya Haw MD	Marina Basina MD
Northwestern Medicine	SUNY
Grazia Aleppo MD	Ruth Weinstock MD PhD
Penn Medicine	UC Davis
llona Lorincz MD	Prasanth Surampudi MD
Washington University	UC San Diego
Alexis McKee MD	Kristen Kulasa MD
Barbara Davis Center	UCSF
Halis Akturk MD	Umesh Masharani MD
Cleveland Clinic,	UPMC
Pratibha Rao, MD, MPH & Mary Vouyiouklis, MD	Jason Ng MD
Johns Hopkins	University of Miami
Nestoras Mathioudakis MD MHS	Francesco Vendrame, MD PhD
Mount Sinai	
Carol Levy MD	





34 participating pediatric clinics

Barbara Davis Center	Helen Devos Children's	Rady Children's	University of Florida
Todd Alonso MD	Donna Eng MD	Carla Demeterco Berggren MD PhD	Laura Jacobsen, MD
Children's Mercy Hospital Mark Clements MD PhD	Indiana University Health Anna Neyman MD	Seattle Children's Hospital, Faisal Malik MD, MSHS and Alissa Roberts MD	UPMC Alissa Guarneri, MD, MBOE
Children's Hospital Los Angeles	Johns Hopkins, Risa Wolf MD	Stanford University	University of Miami
Brian Miyazaki, MD		Priya Prahalad MD	Janine Sanchez MD
Cincinnati Children's Hospital Sarah Corathers MD	Le Bonheur Children's, U TN Grace Bazan MD	SUNY Roberto Izquierdo MD	UC Davis Stephanie Crossen MD & Caroline Schulmeister, MD
CHOA	Lurie Children's	Texas Children's,	UCSF
Kristina Cossen MD	Naomi Fogel MD	Daniel DeSalvo MD	Jenise Wong MD
Cleveland Clinic, Andrea Mucci MD MASc	Mott Children's Joyce Lee MD	NYU Langone: Accacha MD. Hassenfeld Children's Hospital at NYU Mary Pat Gallagher MD	University of Utah, Intermountain Healthcare Vandana Raman MD
Cohen Children's Medical Center, Northwell Health, Jennifer Sarhis MD & Allison Mekhoubad MD	Mount Sinai Robert Rapaport MD	Oregon Health & Science University Ines Guttmann-Bauman MD	University of Wisconsin, Madison Liz Mann MD
Cook Children's	Nationwide Children's	University of Alabama	Weill Cornell
Paul Thornton MD & Susan Hsieh	Manu Kamboj MD	Mary Lauren Scott MD	Alexis Feuer MD



Welcome UC San Diego!



Kristen Kulasa MD

UC San Diego Health System





RSVP for TIDX-QI Breakfast at Sci Sessions

We are excited to host the ADA Faculty Breakfast Sunday June 25th 6:30-8am PST, in partnership with Rady Children's Hospital.

Everyone is welcome. Please use this link to RSVP





November Learning Session

Tues Nov 14, 7am-5pm (EST) and Wed Nov 15, 7am-3pm (EST. Please share your information on attendance using this link: <u>RSVP form</u>

The learning session will be hosted at a hotel in midtown NYC and virtually.

- T1DX will cover hotel costs for two attendees per clinical center.
- T1DX will also cover costs for breakfast, lunch and dinner on Tuesday November 14th and breakfast and lunch on Wednesday November 15th
- T1D Exchange is not covering flights, taxis, gas milage, parking, or meals/food outside of the meals provided at the conference sessions
- T1DX-QI will also not cover hotel rooms for 3rd, 4th, or 5th+ team members attending or hotel rooms in addition to the two nights for two team member's limit

RSVP through the Qualtrics link so that we know who is attending. For those not covered under T1DX-QI, we will hold the room in the block for you and you will be responsible for payment when checking out.

More FAQ can be found on the member website.



Abstracts for the November Learning Session

The 2023 November Learning Session call for abstracts is now open through Friday June 16th.

Please use this link to view the guidelines, sample abstract, and submit.

All members are encouraged to submit abstracts. Please use this <u>link</u> to view the 2023 Learning Session FAQ with more information on abstract submission and session details.

2023 will mark the third year that T1D Exchange has partnered with the Journal of Diabetes to publish T1DX-QI Learning Session abstracts. Previous years' abstracts can be found on Wiley's website for the <u>2022</u> and <u>2021</u> conference publications.



Invoicing Deadlines

Invoices related to work deliverables of Jan-Mar 2023 are now due. We will accept invoices for this work period through June 30th 2023, 6/30/2023 is the deadline. **Payments will not** be issued for invoices received after 7/1/2023.

Please invoice for payment following the deliverables schedule in SOW section 1.D. Include deliverable number and date. All payments will be made through electronic funds transfer (EFT). Include your banking information on invoice. 1. Bank account name & address

- 2. Bank account number
- 3. Bank account routing number

Invoices should be sent via email attachment To: <u>t1dxap@t1dexchange.org</u> CC: <u>nrioles@t1dexchange.org</u> <u>linda.crasco@t1dexchange.org</u> <u>rweathers@t1dexchange.org</u>

Invoices are always due within 90 days of work performed. Kindly forward this information to your finance contacts so that they are aware of the deadlines.



Annual Survey

We will be releasing the T1DX-QI Annual Survey in June.

- Links to the survey will be sent to PI and QI champion
- Only one submission per center.
- Please answer questions on behalf of your clinic
- We will send pdf version so that you can review before completing
- Timeline to respond: June-August



Aim Statement for Adults

Aim Statement for 2022-2025

Among people ages 18-75 with T1D, increase proportion of patients achieving glycemic targets in an equitable manner

- 1. Optimize glycemic outcomes as measured by A1c
 - a. Increase % of patients with A1c <8 by 5%
 - b. Decrease % of patients with A1c >9 by 5%
- 2. Optimize glycemic outcomes as measured by TIR
 - a. Increase % of patients with Time in Range >70% by 5%
 - b. Increase % population with Time in Range >50% by 10%
 - c. Decrease % population with Time Below Range (<70mg/dL) by 5%







Aim Statement for Pediatrics

Aim Statement for 2023-2025

Among people ages 1-25 with T1D, increase proportion of patients achieving glycemic targets in an equitable manner

- 1. Optimize glycemic outcomes as measured by A1C
 - a. Increase % of patients with A1c <7 by 5%
 - b. Decrease % of patients with A1c >9 by 5%
- 2. Optimize glycemic outcomes as measured by TIR
 - a) Increase % of patients with Time in Range >70% by 5%
 - b) Increase % of patients with Time in Range >50% by 10%
 - c) Decease % of patients with Time below Range (<70 mmol/dL) <4% by 5%





NEW: QI Work-Groups

Move beyond individual QI at each site to **group QI** that maintains alignment with our current KDDs

Four workgroups:

1. Glucose monitoring

This group will collaborate to optimize CGM usage by focusing on early initiation, maintenance of use, and success in diabetes management driven by CGM.

2. Hybrid closed loop

This group will collaborate to address the common challenges that stymie widespread increased HCL adoption

3. Transition from pediatric to adult care

This group will collaborate to implement scalable and sustainable processes to prepare pediatric patients with type 1 diabetes to graduate to adult care.

4. Diabetes distress

This group will collaborate to develop a structured implementation program and model to address diabetes distress in routine clinical practice



Workgroup Structure

Common Structure For All Workgroups	Outputs For All Workgroups
Charge : Focus on the intervention topic of the work group to inspire others, improve outcomes, and expand generalizable knowledge.	Aim : Workgroups will follow common Aim of the Collaborative.
Structure : Workgroups will be self-led by PIs interested in these topic areas.	Outputs & Deliverables: Workgroup members will meet regularly, share best practices and intervention experiences with each other. There is an expectation that outputs (eg, manuscripts, flow sheets, and change packages) will derive from these groups.
Timelines : Workgroups will run from July 1, 2023- June 30, 2024.	Measures : Workgroups will follow the existing measures of T1DX-QI.
	Data : Workgroups will follow the existing Data Spec of T1DX-QI.
	Schedule : Workgroup members will agree to a meeting schedule. T1DX-QI recommends no more than 1 meeting per month and at least 1 meeting per quarter.



EXPECTATIONS

Intent is to work together to deliver meaningful improvement, share best practices AND outcomes, testing ideas through the course of the workgroup time together.

Next steps:

- 1. Start with open discussion of interested PIs
- 2. Each group to select 2 volunteer leads (one adult and one peds)
- 3. Choose deliverables, SMART aims, and timelines, each group can decide
- 4. Plan interventions that tie to the KDD
- 5. Plan for organization and visualization of data (e.g. run charts)
- 6. Progress report due by the November meeting



Theoretical Example

Diabetes Distress Work-Group

1. Leaders: TBD and TBD

2. Deliverables:

- A. Improve implementation of the Diabetes Distress Scale (DDS) in clinical practice
- B. Publish manuscript describing the improvement.
- **3. Plan interventions:** Transition from PHQ-9 to DDS implementation over 4 months. Meet monthly
- 4. Data visualization: Run-chart
- **5.** November Progress Report:
 - A. Team leaders, structure of the group, meeting frequency etc
 - B. Initial description of collective learnings from PDSA implementation



Workgroup FAQ

Q: Is joining a work group mandatory? A: No, joining is elective. We encourage joining if your clinic has interest & capacity.

Q: Can my team join more than one group?A: Yes. If you wish to do this, we recommend you delegate representation from different members of your team so that one point person is responsible for joining only one group.

Q: What aims/deliverables should these groups use? A: Groups should follow the existing KDD aim, primary drivers and measures

Q: What is the timeline of the group and how "time consuming" will they be? A: We are setting these up as 12-month projects. Participation in these groups will translate to approximately 1 hour per month, but this will be decided by the group.

Q: Who will be responsible for organizing meetings and sharing slides and meeting minutes? A: These groups will be self-organized and the group will be responsible for sharing meeting information and agendas, etc.



How to Join a Breakout Room

Click on the room you would like to join. If you would like to switch groups, click leave room to return to main session then click join on the new room.







Pediatric Centers



% Improvement Across Measures

		Pedia	atric Clinics Improvement	Scorecard May 2023	[Data from Jul 2020-De	cember 2022]		
Metric	A1c <7%	CGM Use	Pump Use	Depression Screening	DKA Events	Time in Range	Documented Transition	SDOH Screening
T1DX-QI Goal	>25%	>70%	>65%	>80%	>6.3%	>50%	>10%	>10%
T1DX- QI Statu	29%	78%	50%	63%	2.50%	22%	65%	69%
1	Children's National 50%	Children's National 97%	NYU Langone 79.2%	Le Bonheur 97%	Nationwide 0%	NYU Langone 52.34%	NYU Mineola 100%	SUNY Upstate 80.7%
2	Hassenfeld 47.6%	Rady Children's 91%	Helen DeVos 79%	Helen DeVos 90%	Michigan 0.3%	Children's Mercy 36%	Hassenfeld 96.83%	Hassenfeld 69.94%
3	Weill Cornell 24.5%	Indiana 89.8%	NYU Mineola 77.3%	Mt. Sinai 85.6%	NYU Mineola 0.3%	Weill Cornell 19.4%	Helen DeVos 69%	Texas Children's 68%
4	Rady Children's 24.5%	NYU Langone 88%	Weill Cornell 72.6%	Texas Children's 80%	Lurie Children's 0.6%	Lurie Children's 11.9%	Children's Mercy 51%	Weill Cornell 9.4%
5	U Florida 24%	Seattle Children's 88%	Barbara D Center 71.67%	UMiami 79.31%	Hassenfeld 1%	NYU Mineola 11.7%	Weill Cornell 32.2%	Cohen QA
6	Texas Children's 23%	Nationwide 87.4%	Children's Mercy 69%	SUNY Upstate 66.21%	U Florida 1.4%	Children's National 10.1%		
7	Helen DeVos 23%	SUNY Upstate 86.6%	Indiana 68.7%	NYU Langone 61.2%	Texas Children's 1.85%	Nationwide QA		
8	CHLA 23%	U Florida 84%	Michigan 68%	Children's Mercy 59%	Barbara D Center 2%			
9	Lurie Children's 22%	CHOA 84%	Seattle Children's 60%	Michigan 59%	Seattle Children's 2.06%			
10	NYU Mineola 20.4%	NYU Mineola 81.5%	SUNY Upstate 59.5%	Weill Cornell 39.3%	Weill Cornell 2.1%			
11	Cohen 19.87%	Barbara D Center 80%	UWisconsin 54.7%	U Florida 39%	Rady Children's 2.4%			
12	UWisconsin 18.8%	Children's Mercy 78.2%	Rady Children's 53%	UWisconsin 34.7%	Cook Children's 3%			
13	Nationwide 18.35%	Michigan 77%	Texas Children's 50%	NYU Mineola 24.1%	Children's Mercy 4.4%			

QA: Not shown for Quality Assurance



% Improvement Across Measures

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Metric	A1c <7%	CGM Use	Pump Use	Depression Screening	DKA Events	Time in Range	Documented Transition	SDOH Screening
T1DX-QI Goal	>25%	>70%	>65%	>80%	>6.3%	>50%	>10%	>10%
T1DX- QI Statı	29%	78%	50%	63%	2.50%	22%	65%	69%
13	Barbara D Center 18%	Texas Children's 77%	CHLA 48%	Lurie Children's 10.9%	Alabama 6.26%			
14	Cook Children's 18%	Weill Cornell 75.8%	U Florida 47%	Cook Children's QA	Cohen QA			
15	Seattle Children's 18%	UWisconsin 74.1%	Children's National 46.6%	Seattle Children's QA				
16	CHOA 18%	Cook Children's 73%	Alabama 44%	CHLA QA				
17	Children's Mercy 17.92%	Helen DeVos 66%	CHOA 44%	Cohen QA				
18	Michigan 17%	Le Bonheur 62%	Lurie Children's 43.5%	Nationwide QA				
19	Indiana 16.3%	CHLA 60%	Nationwide 42%					
20	Le Bonheur 13%	Alabama 39%	Cook Children's 37%					
21	Alabama 12.6%	Cohen QA	Le Bonheur 37%					
22	SUNY Upstate 10.60%	Cincinnati Children's QA	Cincinnati Children's QA					
23	Mt. Sinai QA	Mt Sinai QA	Cohen QA					
24	Cincinnati Children's QA	Lurie Children's QA	Mt. Sinai QA					
25	Stanford Peds QA	Stanford Peds QA	Stanford Peds QA					

QA: Not shown for Quality Assurance





Jul- 20	Aug -20	Sep -20	Oct -20	Nov -20	Dec -20	Jan- 21	Feb -21	Mar -21	Apr -21	May -21	Jun- 21	Jul- 21	Aug -21	Sep -21	Oct -21	Nov -21	Dec -21	Jan- 22	Feb -22	Mar -22	Apr -22	May -22	Jun- 22	Jul- 22	Aug -22	Sep -22	Oct -22	Nov -22	Dec -22	
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CGM Use increased by 13%



Jul- 20	Aug -20	Sep -20	Oct -20	Nov -20	Dec -20	Jan- 21	Feb -21	Mar -21	Apr -21	May -21	Jun- 21	Jul- 21	Aug -21	Sep -21	Oct -21	Nov -21	Dec -21	Jan- 22	Feb -22	Mar -22	Apr -22	May -22	Jun- 22	Jul- 22	Aug -22	Sep -22	Oct -22	Nov -22	Dec -22
5154	565 2	573 5	622 7	576 8	6198	649 9	6314	7612	706 2	659 3	722 6	720 4	7734	746 7	7253	7561	680 0	7383	705 0	759 5	699 0	6971	7014	6971	7897	706 3	740 4	7146	4671
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Depression Screening increased by 9%



Jul- 20	Au g- 20	Sep -20	Oct -20	Nov -20	Dec -20	Jan -21	Feb -21	Mar -21	Apr -21	Ma y-21	Jun -21	Jul- 21	Au g- 21	Sep -21	Oct -21	Nov -21	Dec -21	Jan -22	Feb -22	Mar -22	Apr -22	Ma y- 22	Jun -22	Jul- 22	Au g- 22	Sep -22	Oct -22	Nov -22	Dec -22
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Time in Range



Jul- 20	Aug -20	Sep -20	Oct -20	Nov -20	Dec -20	Jan- 21	Feb -21	Mar -21	Apr -21	Ma y-21	Jun -21	Jul- 21	Aug -21	Sep -21	Oct -21	Nov -21	Dec -21	Jan- 22	Feb -22	Mar -22	Apr -22	Ma y- 22	Jun -22	Jul- 22	Aug -22	Sep -22	Oct -22
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DKA Events remained stable



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22 49 27 52 81 62 98 70 106 95 72 93 93 92 80 85 113 87 79 56 69 64 62 62 79 82 67	22	49	9 2	27 52	81	62	98	70	70	106	95	72	93	93	92	80	85	113	87	79	56	69	64	62	62	79	82	67	91	63	66



Jul- 20	Aug -20	Sep- 20	Oct- 20	Nov -20	Dec -20	Jan- 21	Feb- 21	Mar -21	Apr- 21	May -21	Jun- 21	Jul- 21	Aug -21	Sep- 21	Oct- 21	Nov -21	Dec -21	Jan- 22	Feb- 22	Mar -22	Apr- 22	May -22	Jun- 22	Jul- 22	Aug -22	Sep- 22	Oct- 22	Nov -22	Dec -22
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Pediatric Center Spotlight – Texas Children's

Team-based clinic sessions to help improve coordinated care.

Implementation of **Extra Care Program**. This program supports patients with elevated gluc ose levels improve their health outcomes:

- Reduced DKA events
- Increased A1c >7%







Adult Centers

range

% Improvement Across Measures

	Ac	lult Centers Improvem	nent Scorecard May 20	23 (data from Jul 2020	- Dec 2022)	
Metric	A1c < 8%	CGM use	Pump use	Dep Scrn	DKA Events	SDOH
T1DX-QI Goal	Greater than 50%	Greater than 70%	Greater than 65%	Greater than 80%	Less than 6.3%	Greater than 10%
T1DX-QI Rank	65% [10% increase]	70% [16% increase]	50% [5% increase]	62% [12% increase]	2.7%	58% [30% increase]
1	BDC - 78% [+7%]	SUNY - 82% [+37%]	BDC - 68% [+18%]	SUNY - 79%	BDC - 1.2%	SUNY - 67% [+50%]
2	Northwestern - 74%	BMC - 79%	Wayne State - 56%	Penn - 62% [+12%]	Penn - 3.9%	BMC - 46%
3	Penn - 65%	Penn - 73% [-12%]	Penn - 52%	Grady - 23%	Grady - 11.0%	Grady - 24% [-4%]
4	SUNY - 55%	BDC - 70% [+8%]	SUNY - 50% [+29%]	BDC - 0%		
5	BMC - 47%	Montefiore - 69% [+15%]	BMC - 26% [+9%]	BMC - 0%		
6	Wayne State - 38% [+11%]	Grady - 44% [+23%]	Montefiore - 19% [+5%]			
7	Grady - 27% [+9%]	Wayne - 40% [+20%]				
Legend	Favorable Change and/or Al	oove T1DX-QI Goal		Unfavorable/No Change and	l/or Below T1DX-QI Goal	



Adult Centers – HbAlc < 8% increased by 7 %



			-	20								20)21											20	22					I
J	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
T1D Population	1012	935	925	1006	817	826	649	669	682	800	826	825	1125	1155	1129	1181	1016	1000	1092	1190	1280	1244	1196	1195	1078	1236	1176	1019	964	963
A1c >8% 5	553	563	538	596	471	474	395	410	418	508	500	516	739	761	717	786	670	675	696	754	801	784	792	773	734	817	802	620	638	661

Adult Centers – Median Alc remained steady and below goal



Lahey-P chart favorable direction

- QI Collaborative Goal: <8%
- QI Collaborative Average: 7.9%
- Improvement Range: -0.5%

			20	20								20	21											20	22					
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Median A1c	8.0	7.8	7.8	7.8	8.2	7.9	7.7	7.9	7.8	7.4	8.3	7.9	7.6	8.1	8.0	7.8	7.9	7.9	7.9	8	7.9	8.1	8.0	8.2	7.9	8	7.9	7.7	7.8	7.8



Adult Centers – CGM Use increased by 16%



			20	20								20)21											20	22					
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
T1D Population	1012	935	925	1006	998	1010	841	824	889	1022	998	1010	1039	1136	1061	1094	1004	971	1037	1112	1263	1151	1144	1139	1001	1161	1127	1197	1130	1119
CGM users	461	468	552	600	590	533	533	547	544	540	376	643	618	793	704	721	708	727	701	827	944	678	832	773	694	794	762	796	854	856
	-					-		-		-	-		-		-			-	-							-	5			ΙĽ

Adult Centers – Pump Use increased by 5%



			20	20								20)21											20	22					
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
T1D Population	969	883	878	965	957	963	804	774	828	963	935	955	988	1079	1014	1036	950	926	983	1057	1199	1097	1092	1091	957	1115	1084	1144	1084	1075
Pump users	424	381	456	515	399	355	372	391	388	475	462	462	477	505	451	495	421	466	464	473	503	552	583	555	479	555	556	542	533	537

Adult Centers – Depression Screening increased by 12%



	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Patients eligible for screening	100	98	78	292	224	209	215	235	230	244	221	222	198	255	278	303	283	244	274	297	316	322	250	251	296	261	262	320	303	288
Patients screened for depression	44	55	44	147	144	144	118	112	85	99	107	106	84	144	160	175	182	150	183	190	209	201	154	158	185	158	157	201	186	174

Adult Centers - SDOH Screening increased by 30%



			20	20								20)21											20	22					
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Patients																														
eligible for	346	348	312	298	241	253	178	132	114	146	194	203	226	226	246	287	268	197	256	301	404	310	342	354	291	329	317	220	309	327
screening																														
Patients																														
screened	78	82	76	79	57	59	52	32	23	42	46	67	66	99	106	160	185	117	180	215	298	219	241	263	205	255	230	219	223	225
for SDOH																													1	

Adult Center Spotlight – Grady

Advancement in the collection and utilization of PROs and clinical outcomes

Implementation of small cycle tests and scaling up successful PDSAs

CGM QI project has resulted in:

- Increased CGM use
- Increased % of patients with HbAlc <8% and decrease in median Alc





What's next?

Browse resources and case studies in the QI Portal Continue coaching calls Continue to implement PDSAs toward a QI goal Make progress with data sharing

- Data mapping
- Smartsheet submissions





T1D New Centers

range

Six New TIDX-QI Centers in 2022









UCDAVIS HEALTH

UPMC



Overcoming Onboarding Inertia

- Organizational Readiness Scarcity of Resources (time, staff, materials)
- Standardizing Quality Improvement Process Method (IHI Model)
- Staffing a Multidisciplinary QI Team
- Selecting a QI Project
- Gathering Data for QI Project ... Smart Sheet ... Data Mapping ... Oh My!!
- **P**lanning: Aim statement; Fishbone Barriers; Change ideas
- **D**oing: Key Driver Diagram; Effort / Impact Matrix
- **S**tudying: IHI Open School / Project Small Tests of Change
- Adjusting: Rolling Action Item List (RAIL)
- Utilizing QI Portal for Benchmarking and Library of Best Practices
- Periodic Collaborative Calls and Check In Coaching

Challenges * Solutions * Early Wins



Highlights – QI Projects

UCDAVIS HEALTH

QI Work Sheet

Problem/Issue: Children with T1D are at increased risk for depression, yet we are not consistently screening our patients for depression in our outpatient clinic.

Aim statement: By August 1, 2024, increase annual depression screening from 23.1% to 70% for patients between the ages of 13 and 18 years old with T1D seen at UC Davis for outpatient diabetes care.

Write out your ideas after the fishbone activity: work on getting an electronic version of PHQ9 that can be sent out to patients prior to visits, and obtaining iPad for clinic use

Selecting Opportunity!

- Depression Screening
- CGM Uptake
- Transition to Adult Care
- Pump Uptake
- Lipid Screening



Highlights – Process Maps

UPMC

Scoping the Process!

Supplier	Input	Process	Output	Customer
(Who)	(Object/what)	(Activity)	(Object)	(Who/Recipient)
RN/MA	Daily DM clinic	Identify patients	Provides PHQ-9 to	Patient
	schedule	age ≥12 years	eligible patients	
Patient	Receives PQH-9	Completes PHQ-9	Completed PHQ-9	Provider
Provider	Completed PHQ-9	Reviews	Normal score <9	Filing Bin for
		completed PHQ-9	(<u>use</u> different	scanning if normal
			term than	score
			'normal')	
Provider	Completed PHQ-9	>9 – SW consult	BH appointment	Patient
		>15 – BH consult	made	
		Mark 'yes' for SI		
TEAM		Sends Cerner		TEAM
Members	QUALITY	message to BH	DELIVERT	Members
		Pool about		
		referral		





Highlights – Multidisciplinary Teams Cleveland Clinic



Utilizing Resources!



Highlights – Data Collection



Data Mapping Process

Facing Challenges!



*Indicates phases where provider input is requested.







Highlights – Key Driver Diagrams

Key Driver Diagram: What changes can we make that will result in improvement (part three)?

Implementing the Plan!

UPMC





Highlights – Check-In Coaching Calls

Agenda	Notes	Next stens
Agenda Engagement Milestones	 Notes <i>Team:</i> contact list <i>Guidance:</i> Project AIM, Fishbone, Key Driver Diagram, Effort-Impact matrix <i>Progress:</i> PDSA rolling action item list (RAIL); time series chart with baseline/goal <i>Feedback:</i> data collection plan, process, report, patient/family advisory <i>Support:</i> IHI Open School; T1Dx QI Portal Other: T1Dx LC committees; Lead a QI Project; Coauthor 	Next steps Will complete initial Baseline Quality Improvement Assessment https://t1d.iad1.qualtrics.com/jfe/form/S V_eQihYLCTn85ZLLL Request Don to send initial worksheets again
Project Update	 a Publication; Project selection pending data collection/report capability; PDSA – smart form for EMR to capture discrete use is going into production; train for standard documentation procedure 	Project selection – provisional AIM and fishbone obstacles/interventions
Smart Sheet & Mapping	IRB has been approved; using Tegria for data mapping	Smart Sheet: https://app.smartsheet.com/sheets/86V 9RfPQv4g657cf8JWWCHJRC2QHv4fQ7R8 gRW61?view=grid
Dashboard	QI Portal	Don will support with control charts once data is available
Next Check-In online meeting	May 19 th at 8:30a	Don will send invitations



Building Capacity!





From Meh to Yeaaaah! Endocrinology Centers Participating in T1dx Collaborative Go through a Change in QI Culture in Just 12 Months!

Siham Accacha, MD, Ulka Kothari MD

Department of Pediatric Endocrinology, NYU Long Island School of Medicine, Mineola, NY

Introduction

- To improve care for all individual with type 1 diabetes, it is important to increase the culture of patient safety and quality, associated with required rigorous assessment of outcomes overtime (1).
- The development and growth of a successful type 1 diabetes quality improvement (T1Dx-QI) program rely on promoting the development of practices with <u>autonomous skills to apply to new challenges over time</u> and <u>support practice transformation</u> (2).











T1DX-QI Capacity Self-Assessment Tool

1. QI Team Structure

- The Department Senior leader(s) is (are) engaged in the T1D improvement project.

- The Physician Leader is engaged and participates in the T1D improvement project

- The IT department is available and willing to implement technical changes.

- T1D patient(s)/parent(s) are engaged in the improvement project.

- T1D QI core team members have relevant job roles and meet frequently.

2. QI Foundation

- Improving T1D clinical outcomes are aligned with your organizational priorities.

- The team has a pool of potential test ideas to improve T1D outcomes and process interventions (Shared Decision-making, Depression Screening, etc.)

- We collect T1D patient-reported outcomes (PROs) or patient-reported experiences (PREs).

- The team has a system to facilitate the collection and capture of PROs and PREs

- The team monitors quality $T1D\,process$ and outcome measures.

3. QI Capacity

- The team is proficient in completing PDSA cycles aligned with improving T1D process or outcome measures.

- The team is adept at updating run charts.

- At least one of your team members is proficient in the QI model of improvement.

- The team can map current processes, analyze contributing factors, causes and use essential QI tools.

- The team is comfortable scaling up successful improvement ideas.

4. QI Success

- The team shares T1D data/results with key stakeholders to improve quality.

- The team has demonstrated successes in at least one intervention

- The team has substantial improvement (at least 10%) in T1D clinical outcome measures (HbA1c, Time in Range).

- The team is collectively improving their QI proficiency.

- Successful changes have been scaled up.



QI Capacity



Knowledge & understanding of QI approaches

Data and feedback for QI



Commitment of practice leadership

Dedicate time and resources to QI activities





Clinic Profiles of Participating Pediatric and Adult Centers that Completed pre- and post-QI Culture Assessment

Characteristic	T1DX-QI Centers (N = 27)
Population served	
Adult	6 (22)
Pediatric	21 (78)
Center size (# of patients seen monthly)	
Small (< 125)	8 (30)
Medium (125 – 249)	10 (37)
Large (>= 250)	9 (33)
Percentage of patients on public insurance	
Small (< 30%)	8 (30)
Medium (30% - 49%)	12 (44)
Large (> 50%)	7 (26)
Geographical region	
Northeast	10 (37)
Midwest	7 (26)
South	7 (26)
West	3 (11)
T1DX-QI Cohort	
1 (2016-2017)	5 (19)
2 (2019-2020)	9 (33)
3 (2021)	13 (48)
Average Difference in pre- and post-QI Culture scores*	+8%
Pre- to Post-QI Culture score shifts	
Improved (range: 1% - 40% increase)	16 (59)
Unchanged (0% change)	6 (22)
Decreased (range: 3% - 5% decrease)	5 (19)

Data (except *) are in n (%).



Pre- and post-QI Culture scores by center size



	Small and Medium			Large		
	2021	2022	Overall difference	2021	2022	Overall difference
QI Team	86	80	-6	67	71	+4
QI Foundation	84	94	+10*	76	82	+6
QI Capacity	64	91	+27*	60	80	+20*
QI Success	56	81	+25*	51	76	+25*
Overall QI Culture	73	87	+14*	66	77	+11*

Data are in %; * indicates p-value < 0.05.

Pre- and post-QI Culture scores by percentage of patients on public insurance



	Small and Medium			Large			
	2021	2022	Overall difference	2021	2022	Overall difference	
QI Team	80	79	-1	77	71	-6	
QI Foundation	81	89	+8	83	94	+11	
QI Capacity	62	87	+25*	66	89	+23*	
QI Success	49	80	+31*	71	77	+6	
Overall QI Culture	69	84	+15*	74	83	+9	

Data are in %; * indicates p-value < 0.05.



Pre- and post-QI Culture scores by population served



	Adult			Pediatric		
	2021	2022	Overall difference	2021	2022	Overall difference
QI Team	83	70	-13	78	79	+1
QI Foundation	63	87	+24	87	91	+4
QI Capacity	53	73	+20	66	91	+25*
QI Success	43	67	+24	61	83	+22
Overall QI Culture	61	74	+13*	73	86	+13*

Figure 3b: T1DX-QI Center QI Culture 2021 versus 2022 - Pediatric Centers

Data are in %; * indicates p-value ≤ 0.05 .

Figure 3a: T1DX-QI Center QI Culture 2021 versus 2022 – Adult Centers



Overall pre- and post- QI Culture scores



	2021	2022	Overall difference
QI Team	79	77	-2
QI Foundation	82	90	+8*
QI Capacity	63	87	+24*
QI Success	57	79	+22*
Overall QI Culture	70	84	+14*

Data are in %; * indicates p-value ≤ 0.05 .



Conclusion

- Even with as little as one year of involvement with the T1D-QI, centers experience an improvement in their QI culture, suggesting that robust improvement in quality culture can occur in very short time periods when clinicians are motivated by a common goal, when quality is built into the encounter, and when regular audit and feedback are provided.
- To improve clinical care and outcomes for individual with type 1 diabetes, it is important to maintain a successful and ongoing learning health system (LHS) collaborative.
- The involvement of adult care centers, is a necessary step to decrease disparity and improve the care for all patients with type 1 diabetes.



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TIDX T2D Project Updates May 15, 2023



Participating Centers





Sonya Haw, MD

David Ziemer, MD





Jason Ng, MD



Margaret Zupa, MD



University of Pittsburgh Medical Center





EXCEPTIONAL CARE. WITHOUT EXCEPTION.



Project Objectives

1. Establish a large dataset for adult T2D patients & evaluate the dataset for benchmarking and metrics for the purposes of supporting quality improvement activities

2. Initiate QI interventions aimed to increase CGM access for patients living with T2D, equitably, using the T1D Exchange 10 Step Equity Framework



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





Baseline data shared in Feb 2023 for reporting

Clinic Name	<mark>BMC</mark>	UPMC	SUNY	Stanford	Wash U	U Miami
Denominator	4350	9641	3193	3000	4437	3500
Public	3045	5396	2427	1000	2584	1950
Insurance	(70%)	(56%)	(76%)	(33%)	(58%)	(58%)
White pop	2080	7915	2267	1200	3378	2450
	(48%)	(82%)	(70%)	(40%)	(76%)	(70%)*
Hispanic pop	780	96	148	600	84	2100
	(18%)	(<1%)	(<1%)	(20%)	(<1%)	(60%)
CGM use	n/a*	3085	1013	1000	861	n/a
		(32%)	(32%)	(33%)	(19%)	
A1c	3900	8574	2207	2600	2428	3500
	(90%)	(90%)	(69%)	(87%)	(58%)	(100%)
Mean A1c	8.7%	7.8%	7.9%	8.0%	8.7%	7.5%
A1c below 8%	n/a	6127	1351	1200	944	2275
		(71%)	(61%)	(46%)	(38%)	(65%)



CGM Uptake Key Driver Diagram

Outcomes/Aim

Increase 10% utilization of continuous glucose monitors (CGM) for people with T2D by 10/31/24. Demonstrate reduction in CGM disparities by 3%

Key Drivers

Support patients starting CGM Coach and educate patients on effective CGM use Identify inequitable processes Use ten step equity framework

Train and educate clinical teams on CGM

Partner with vendors and payors to support equitable device access

Change Ideas

Support patients starting CGM during new visits and annual visits.

Educate patients on CGM use. Follow up with patients who express an interest.

Redesign workflows to ask patients about their interest in CGM and address barriers. Re-offer CGM as appropriate.

Provide CGM training for patients in clinic, through telehealth, and online.

Provide CGM training for clinical staff.

Create tools in EMR to facilitate insurance and vendor approval. Navigate and mitigate hurdles with patients.



Measures

Denominators (A): The number of patients with a dx T2D (ages 18-75) at your center with at least one in person or telehealth visit in the last year

Priority Measures to be completely reported by June 30, 2023

 (1a) Hemoglobin A1C (HbA1c) testing. The number from (A) who received an HbA1c test during the measurement year.

(1b) Hemoglobin A1c (HbA1c) management (<8.0%). The number of members in (A) whose most recent HbA1c level during the measurement year was less than 8.0% (goal)

(2) The number of patients in (A) who reported using a sensor/CGM during the month being reported on

(3) The number of patients from (A) with a diagnosis of hyperlipidemia or an LDL > 130 mg/dL

(3a) Patient is prescribed a statin for cholesterol.

(4) Total number of patients from (A) with hypertension diagnosis or Blood Pressure (>140/90 mm Hg)

4a) Patient is prescribed ACE-I or ARBs in the measurement year (taken by any digital device).

Percentage prescribed an ACE

(5) Patient from (A) and a diagnosis of heart disease and CAD or heart failure or MI or PCI or PAD

(5a) Patient is prescribed an SGLT2 or GLP1



ADA Know Diabetes By Heart (KDBH) 2023-2024

ADA-T1D Exchange T2D QI Program Partnership

- T2D adult populations
- QI interventions in the primary care space
- 8 clinical partners will be selected for funding
 - 2-3 have already been selected by ADA
 - 5-6 will be identified from T1DX-QI network

KDBH Objectives

Awareness

- Increase the proportion of people living with T2D who are aware that cardiovascular disease is the leading cause of death.
- Increase the proportion of people living with T2D who are aware they are at an increased risk for heart attack, heart failure and/or stroke.



ADA Know Diabetes By Heart (KDBH) Objectives

CVD Risk Conversations

- Increase the proportion of health care providers who discuss the risk for heart disease with all their patients with T2D.
- Increase the proportion of people living with T2D who have discussed their risk for heart disease with their health care provider.

Diabetes Self-Management Education and Support (DSMES)

- Increase the proportion of people living with T2D who report they have attended DSMES.
- Increase the proportion of health care providers who refer all patients with T2D to DSMES.

Provider confidence in therapies with CVD Risk Benefit

Increase the proportion of health care providers who are confident they can effectively
prescribe ad manage T2D using second-line anti-hyperglycemic agents that can also
improve CVD risk.





TID Exchange Strategy Session

Data Governance Committee Report Out

Purpose of the TIDX-QI/T2DX-QI Data Governance Committee

To expand research focus through academic and industry support for projects:

- •To have a better understanding of and improvement in patient care
- Reduction in health disparities
- Improvements in understanding impact of treatments

To expand opportunities for QI team members:

- •To serve as PI or Co-Investigators at their sites
- •Provide patient opportunities to engage in QI research



T1DX-QI/T2DX-QI Data Governance Committee (DGC) Process



TDX-QI Project Updates



Projects Summary

As of May 2023, T1DX-QI has collaborated with 8 partners on 15 sponsored projects





Current Projects

Quality Improvement

- Medtronic device equity
- Eli Lilly smart pen equity
- JDRF antibody screening and monitoring
- Abbot and ADA T2D

Qualitative Analysis

- Vertex total daily dose analysis
- Vertex severe hypoglycemia analysis



Project Satisfaction

Funder

Co-Investigator

Project satisfaction survey results by role Average responses on a scale of 1-5 agreement with below 14 statements by project 13 COVID Smart Pen 12 FoH MannKind CME Autoantibody Screening CGM Pump Equity Pilot 11 4 Milestones and deliverables 10 were completed in a timely manner. 9 5.0 5.0 8 7 5.0 4.4 40 **5.0** Communications were 6 I would recommend the T1D Exchange for a future project. appropriate and timely. 5 4.5 4.5 3.0 4 3 2 2 1 articipating in this project 1 was valuable to me/my I am satisfied with this project. 0 5.0 5.0 organization. COVID MannKind CME Autoantibody Smart Pen FoH Equity Pilot

Other

Site/clinic team member

T1D Exchange

T2DX-QI

Pilot

- Started with two centers
- Increased prescribing rates of SGLT2 and GLP-1s, increased depression screening, and initiated SDOH screening

Abbott

• Expand pilot to five centers

ADA

• Supporting KDBH centers with our QI expertise



Amendment #2 to the Data Use Agreement

This Amendment is dated as of MONTH, DAY, YEAR (the "Effective Date"), by and between T1D Exchange Inc., located at 11 Avenue De Lafayette, Boston, Massachusetts 02111, and the HOSPITAL/CONTRACTOR NAME with a location at HOSPITAL/CONTRACTOR'S ADDRESS ("Contractor").

WHEREAS the Parties entered into Data Use Agreement on MONTH, DAY, YEAR.

WHEREAS the Parties executed an Amendment to the Agreement on MONTH, DAY, YEAR to include a type 2 diabetes project.

WHEREAS the Parties hereby agree to extend the term of the Agreement in accordance with them terms of the Agreement as well as the terms provided herein.

In consideration of the mutual covenants contained herein, each of T1D Exchange, Inc., and the contractor mutually covenant and agree as follows:

```
The Agreement, which is attached, continues from the effective data and automatically renews for additional one (1) year periods.
```

The parties agreed to the existing terms of the executed Data Use Agreement and all other terms and conditions of the Agreement remain unchanged.

The MONTH, DAY, YEAR Amendment added the following project work:

- The Parties agree that a newly designated Principal Investigator, leading all work associated with type 2 diabetes, be assigned to the project.
- The Parties agree that all existing terms of the DUA, related to Practice and Business Associate responsibilities, Data and Copyright Ownership, Privacy Laws, Security and the Parties acknowledge that beginning at the data of Amendment signature, the program's dataset will expand to include both type 1 and type 2 diabetes.

This Amendment shall be signed on behalf of T1D Exchange Inc., by NAME, its ROLE, and on behalf of the CONTRACTOR NAME.

Proposed Amendment to TIDX-QI/T2DX-QI DUAs

SUMMARY OF CHANGES Opt-out during new dua conversations Secured central IRB approval for T2D T2D data specification working groups summer 2023









1D xchange

QI Publications Committee May 2023

Publication Committee

TID Exchange QI Collaborative ("TIDX-QI") established a Publications Committee to execute decisions and sets priorities concerning all publications and makes final decisions concerning publications arising out of the TIDX-QI.

The Committee is responsible for conducting reviews of publication proposals as defined in the publication policy, providing advice on statistical methods, and contributing to discussions on best practices regarding TIDX-QI topic areas



Members

- Shideh Majidi Children's National (Co-Chair)
- Shivani Agarwal Montefiore, Albert Einstein (Co-Chair)
- Halis K Akturk BDC Adult
- Corrine Aia BMC
- Mark Clements Children's Mercy
- Ryan McDonough Children's Mercy
- Grace Nelson Le Bonhuer
- Priya Prahalad Lucile Packard
- Naomi Fogel Lurie Children's
- Laura Levin Lurie Children's
- Monica Bianco Lurie Children's
- Grenye O'Malley- Icaahn Mt Sinia Adult
- Manmohan Kamboj Nationwide Children's
- Jared Friedman Northwestern
- Emily Briedbart Hassenfeld Children's at NYU
- Ines Guttmann Bauman Oregon Health and Sciences University
- Ilona Lorincz Upenn
- Margaret Zupa Pittsburgh Adult
- Carla Demeterco-Berggren Rady Children's
- Alissa Roberts Seattle Children's
- Ruth Weinstock SUNY Adult
- Roberto Izquierdo SUNY Peds
- Sarah Lyons Texas Children's Hospital
- Laura Jacobsen _ University of Florida
- Francesco Vendrame University of Miami Adult
- Elizabeth Mann University of Wisconsin
- Jane Dickinson
- Sean Delacey- Lurie Children's
- Siham Accacha NYU Long Island
- Nestoras Mathioudakis Johns Hopkins Adult
- Meenal Gupta Seattle Children's
- Tossaporn Seeherungvong University of Miami Peds



Publication Request Form

• Please use this <u>link</u> or scan the QR code to access the publication request form.





ATTD 2023 Accepted Abstracts

- 1. Practical Strategies to Increase Continuous Glucose Monitors (CGM) Use for Underserved Patients: Results from the TID Exchange Multicenter Study
- 2. Multi-Center Provider Perspective on Barriers to Smart Insulin Pen
- Patient reported Diabetic Ketoacidosis among Hybrid Close Loop System (HCLS) users: Real world evidence form a multi-center study for people with Type 1 Diabetes
- Hemoglobin AIc levels among people with Type I Diabetes switching from selfmonitoring of blood glucose to real-time CGM use: A retrospective longitudinal study
- 5. Distribution of Continuous Glucose Monitoring (CGM) derived glycemic outcomes among real-time CGM vs. isCGM users in a large multi-center EMR database for people with TID
- *Patient reported Severe Hypoglycemia among Hybrid Closed Loop System (HCLS) users: Real world evidence from a multi-center study for people with Type 1 Diabetes



ADA 2023 Accepted Abstracts

Invited Oral Presentations

- 1. ADA Standards of Care and Quality Improvement
- 2. What Can Diabetes Quality Teams Learn from Engineers and Designers?

Oral Presentation

1. CGM initiation within 6 months of T1D diagnosis associated with lower HbA1c at 3 years

Poster Presentations

- 1. Health Care Transition Practices in the T1D Exchange Quality Improvement Collaborative
- 2. Reproductive health counseling in the T1D Exchange Quality Improvement Collaborative (T1DX-QI)
- 3. 2022 State of Type 1 Diabetes in the US: Real World T1D Exchange Multicenter Data from over 60,000 people
- 4. Incorporating Shared Decision Making (SDM) to improve adoption of Connected Insulin Pens (CIP)
- 5. Current Practices in Racial Equity—Findings from the T1D Exchange Quality Improvement Collaborative (T1DX-QI)
- 6. Multi-Center Quality Improvement Project: Increasing Social Determinants of Health (SDOH) Screening Across Six Diabetes Centers in the United States
- 7. Provider Perceptions of Barriers and Benefits to Type 1 Diabetes Autoantibody Testing Among Patients and Relatives
- 8. Food Insecurity in People with Type 1 Diabetes and Glycemic Outcomes
- 9. Qualitative Study: Provider Awareness and Attitudes towards Type 1 Diabetes Antibody Screening
- 10. LGBTQ+ Supportive and Inclusive Care Practices in the T1D Exchange Quality Improvement Collaborative (T1DX-QI)
- 11. Advancing Quality Improvement Culture among 27 Pediatric and Adult Diabetes Centers
- 12. Walking the Talk—Improving Use of the T1D Exchange Quality Improvement Portal Using QI Methodology



Q2 2023 Manuscript Scorecard – May 2023

- Phase 1 (New Idea): 5
- Phase 2 (Internal group) 9
- Phase 3 (Publication committee review) 5
- Phase 4 (Journal Review): 10
- Phase 5 (Manuscript Accepted/Published): 7



Phase 5 published Manuscript Q1 2023

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QUALITY IMPROVEMENT SUCCESS STORY | FEBRUARY 15 2023

Connecting From Afar: Implementation of Remote Data-Sharing for Patients With Type 1 Diabetes on Insulin Pump Therapy ⊘

Monica Grimaldi; Lisania Cardenas; Aleida Maria Saenz; Maddison Saalinger; Ori Odugbesan; Nicole Rioles 🐵 ; Osagie Ebekozien 💩 ; Ernesto Bernal-Mizrachi 🧐 ; Francesco Vendrame 🕿 🐵



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	VI Mitrici VI Mitrici Osagie Ebekozien ^{1, 2} , Holl	romonau y Hardison ¹ , Viral N. Shah ³	ISSN 2450-7458 e-ISSN 2450-4187	
	¹¹ TU Sachange, Boston MA, USA ² University if Missispip School of Popul ³ Barbara Davis Center for Diabetes, Univ ³ Barbara Davis Center for Diabetes, Univ	lation Health, Jackson, MS, USA ensity of Colorado, Aurona, CO, USA		
	The Promise	of Diabetes Technolo	ogies	
2	Clinical Innovation has co diabetes care since the discove hundred years ago. In the la COVID-19 Pandemic, the devic	ntinued to transform ry of insulin over one st three years of the e industry and regula-	licator (GMI) following ini- 5 AID system for children at . The authors completed two = 25) included children with	
	tors have amplified the scale o innovations [1]. Devices like continuous glu Sensor Aurmented Insulin Pump	f diabetes technology insulin pump which was u cose monitors (CGM), s and automated insu- 80% after three months	rusing a sensor augmented pgraded to the AID system. d from 75.5% at baseline to The second cohort (n = 33)	



Phase 5 published Manuscript Q1 2023

D Springer Link

Home > Current Diabetes Reports > Article

Psychosocial Aspects (J Pierce, Section Editor) | Published: 20 December 2022

Implementation of Psychosocial Screening into Diabetes Clinics: Experience from the Type 1 Diabetes Exchange Quality Improvement Network

Sarah Corathers [⊡], <u>Desireé N. Williford</u>, <u>Jessica Kichler</u>, <u>Laura Smith</u>, <u>Emma Ospelt</u>, <u>Saketh Rompicherla</u>, <u>Alissa Roberts</u>, <u>Priya Prahalad</u>, <u>Marina Basina</u>, <u>Cynthia Muñoz</u> & <u>Osagie Ebekozien</u>

Current Diabetes Reports 23, 19–28 (2023) Cite this article

1374 Accesses | 1 Citations | 2 Altmetric | Metrics

A <u>Correction</u> to this article was published on 28 January 2023

• This article has been <u>updated</u>

Abstract



Phase 5 published Manuscript Q2 2023





November Learning Session Call for Abstracts

- The 2023 November Learning Session Call for Abstracts is open until June 16th
 - Please use this <u>link</u> or scan the QR code to access the abstract upload platform





QI Champions Committee Updates

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May 2023

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QI Champions Committee

- The QI Champions Committee is a group of QI Coordinators from all 55 participating centers in the TIDX-QI.
- The committee meets bi-monthly to share and learn about QI initiatives happening locally.
- QI Coordinators share updates about QI projects using Quality Improvement methodologies.
- QI Projects align closely with the TIDX-QI quality metrics.

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		Facilitator	Time
ntroduction	 Ice Breaker Attendance 	• Michelle Coulter	1:00 - 1:10
Site QI Update	 School Education Program Hassenfeld Children's Hospital at NYU Langone QI project Rationale, result, learnings, and challenges Cook Children's Medical Center QI project Rationale, result, learnings, and challenges Rady Children's Hospital QI Project CGM, Pump, and Inpen initiation process. 	 Jeniece Ilkowitz Stephanie Ogburn Christy Byer-Mendoza 	1:10 - 1:25 pm 1:25- 1:40 pm 1:40- 1:50 pm
	Q&A		
Questions & Closing Remarks	 Wrap Up Share who is scheduled to present at the next meeting. 	 Ashley Garrity Trevon Wright 	1:50 – 1:55 pn 1:55- 2:00 pm



Previous Presentations

- School Education Program Hassenfeld Children's Hospital at NYU Langone
- CGM, PUMP, In Pen Process Maps- Rady Children's
- Extra Care+ Program (Handout)- BDC Peds
- Boston Medical Center- Increasing Hybrid-Closed Loop Pump Usage
- Children's Mercy- Addressing Social Determinants of Health to Improve Health Outcomes for Patients with Diabetes


Expectations for TIDX-QI Centers/ QI Champions

- All centers should have at least one QI coordinator in the committee
- At least each coordinator will present at the committee meeting once every year
- Each presentation should include at least a QI tool e.g fish bone, Key Driver Diagram, Process map, Run charts, PDSA worksheet e.t.c
- Coordinators should be involved in abstracts and manuscripts both locally and with other co-authors in the TIDX-QI



Sites that have presented

- SUNY Adult
- Boston Medical Center
- Barbara Davis Center Pediatrics
- SUNY Peds
- University of Alabama
- Children's Mercy

- Rady Children's Hospital
- Cook Children's Medical Center
- Hassenfeld Children's Hospital



Engaged Sites

Participating sites	QI Coordinators	5/9/23
BDC Adult	Darya Wodetzki, Emma	
Cornell Children's	Isabel Reckson	
Lurie Children's, IL	Naomi Sullivan	
NYU Langone Mineola	Lori Benzoni, Sheila Dennehy	
University of Wisconsin	Whitney Beaton	
Cincinnati Children's (CCHMC)	Amy Grant	
Barbara Davis Center (BDC) Ped	Becca Campbell, Claire	
University of Michigan	Ashley G	
Texas Children's	Curtis	
Nationwide (NCH)	Malak	
SUNY Upstate (Ped)	Emilie Hess, Joseph Eradu	
SUNY Upstate (Adult)	Emilie Hess, Joseph Eradu	
Stanford(Adult)	Deene	
University of Pennsylvania(Penn)	Carly Morrison	
Rady	Christine, Kim	
NYU Lagone(peds)	Jeniece Ilkowitz	
Seattle Children Hospital	Yasi, Samantha	
CHLA	Jose Aceves	
Cook Children's	Stephanie Ogburn, Christin, Candice	
Alabama	Michelle Coulter	
Cleveland Adult	Kelle Brake/ Maya Boyd	
Cleveland Peds	Andrea Mucci, Cheryl Switzer	
OHSU Peds	Brittany Caswell	
Spectrum Health(Helen Devos)	Britni Schipper	
Univ Utah Peds	LeAnn Gubler	



Engaged Sites

Participating sites	QI Coordinators	5/9/23
Indiana University	Katie Haberlin	
UCSF adults	Kaven Bal	
Boston Medical Center	Elizabeth Brouillard	
Children's National	Jennifer Reilly	
Mt. Sinai adults	Selassie Ogyaadu	
Mt. Sinai peds	Julie Samuels	
Northwestern Medicine	Stephanie Hermann	
Children's Mercy(CMH)	Emily Dewit	
Miami Adult	Maddison	
NYU Adult	Camila Calistru	
Tennessee	Blake Adams	
Cohen Children's	Rasida Talib	
WASHU	Lindsay	
Atlanta	Lynette	
Johns Hopkins Adult	Nestoras Mathioudakis	
OHSU Adult	Brianna Morales	
Pittsburgh Peds	Janet Lueng	
University of Florida Peds	Sarah Peeling	



Sites without QI Coordinators

		5/9/23
Participating sites	QI Coordinators	
Albert Einstein	N/A	
UCSF peds	N/A	
Miami Peds	N/A	
Johns Hopkins Peds	N/A	
Pittsburgh Adult	N/A	
UC Davis (2023)	N/A	
Stanford (Ped)	N/A	
Wayne State	N/A	
Grady Memorial Hospital		
	N/A	





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TID Exchange Strategy Session

Data Science Committee Report Out



Population Health Research

T1D

Diabetes related

Mapped Sites in T1DX-QI EMR database

- 28 Sites fully mapped
- 3 in (Internal and External) validation phase
- Data completeness scorecards for core QI measures shared with sites biannually



Data Points trending in the QI Collaborative Database

- Features over **70,000+ patients**
- Over 130 data elements

Clinic Type	Number of Patients (N%)
21 Pediatric Sites	55,185
7 Adult Sites	20,536





Mapped Data Files

Patient Information	Encounter	Provider	Observations	Diabetes related Information	Conditions	Medication
Zip code Age Gender 	Encounter type	Provider type	Vital signs -Surveys -HbA1c 	-Date of diagnosis -Insulin regimen -CGM 	ICD10	Rxnorm NDC



Sample Scorecard

- Scorecards are sent out twice a year to fully ٠ mapped sites assessing data availability for variables
- On average of all mapped sites, we have ٠ about 90% of a1c data available
- T1d_dx_dt, ~80% of sites are sharing this ٠ information. We see a range from 18%-100% availability
- Of mapped sites, about 50% are sharing TIR ٠ with us, and of those sites we data availability ranging from 7% to 92%
- For CGM use, about 60% of mapped sites are ٠ sharing cgm_binary with us, and of those sites we have about 76% available data

T1Dx Phase 1	Codes from T1DX data		Meets Mapping
Measures	spec	Data availability	Expectations
	birth_date	100%	
	t1d_dx_dt	100%	
Democratic data	Race	100%	
Demographic data	Ethnicity	100%	
	primary insurance type	100%	
	39156-5 (BMI)	99%	
1c data	4548-4, 17856-6	99%	
	cgm_binary=1	91%	
CNA Lles data	cgm_st_dt	92%	
Sivi Use data	cgm_company	75%	
	cgm_model	83%	
G check data	bgm_test_freq	8 %	
	ins_regimen=1	71%	
unan Llee dete	pump_st_dt	94%	
ump use data	pump_company	16% <mark></mark>	
	pump_model	53%	
CLS	ins_pump_delivery==4	40%	
/IDI Use data	ins_regimen !=1	29%	
epression screening			
ata	55758-7,44261-6	Not available	
Dx Phase 2			
easures			
ne in Range	time_in_range	52%	
me in	cgm_below_70		
/poglycemia		47%	
me in Severe	cgm_below_54		
ypoglycemia		47%	
	dka_events_inp	8%	
KA avanta	dka_events_amb	Not available	
KA events	dka_events_inp_pro	Not available	
	dka_events_amb_pro	Not available	
olus 3X among	bolus_ins_daily_inj		
ump users		Not available	
	88124-3,88122-7,		
ЮН	88123-5	Not available	
ango in modiation	drug_name	Available	
lange in medication	drug_name_generic	Not available	
e iorniai	drug_sub_class	Not available	





Data specification upgrades

- Data specification in upgraded annually
- Upgrades include new, updated variable lists
- New variables
 - Variable additions are made after reaching consensus within the Data Science Committee (DSC)
 - PIs requesting for new data present their study proposal to DSC, explaining its significance to the field and quality improvement processes



EHR Manuscript

Goal of paper: to describe EHR tools used in TIDX-QI

- Capture EHR tools and workflows for documenting core data elements
- Describe variability in how sites are entering and classifying these data elements to arrive at the core metrics for the collaborative
- June submission
- Link to google sheet will be shared in chat
- If you would like to participate, please schedule a zoom meeting with Dr. Lee or Dr. Eng no later than Friday May 26th

