

State of the Collaborative



Osagie Ebekozi, MD, MPH, CPHQ



T1D
Exchange

2024 State of the Collaborative

Osagie Ebekozen, MD, MPH
Chief Medical Officer

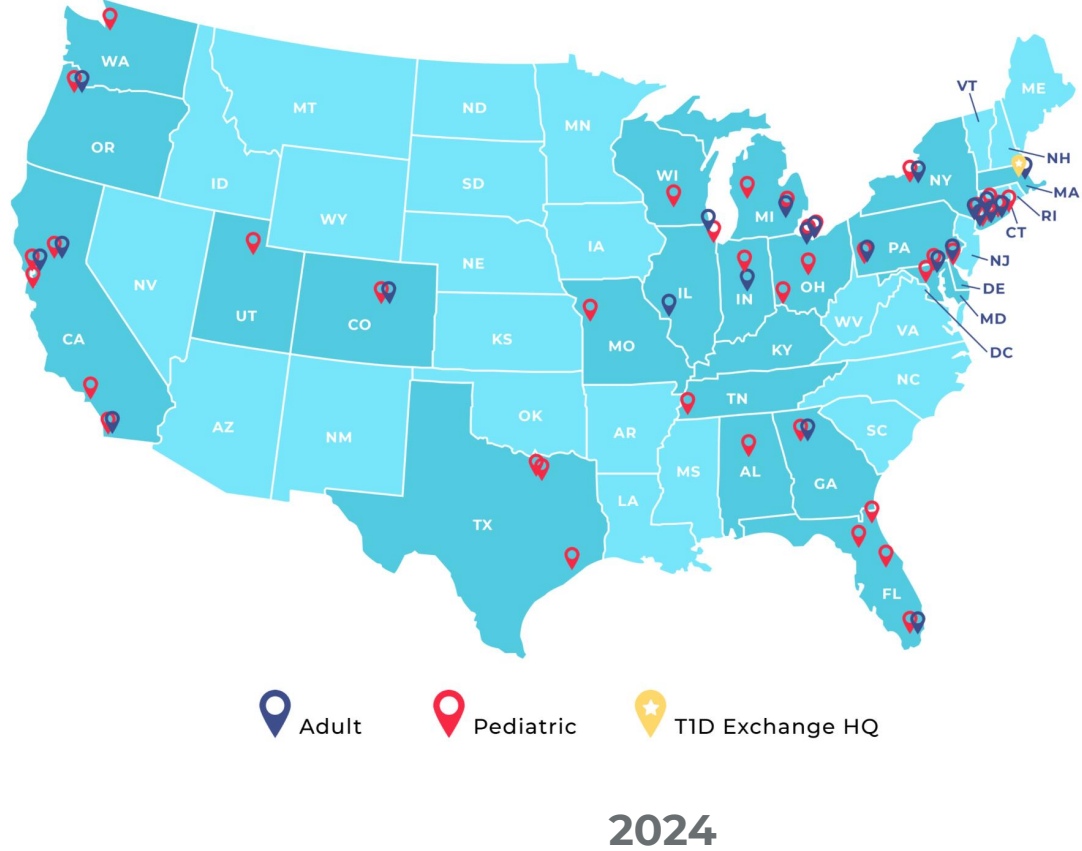
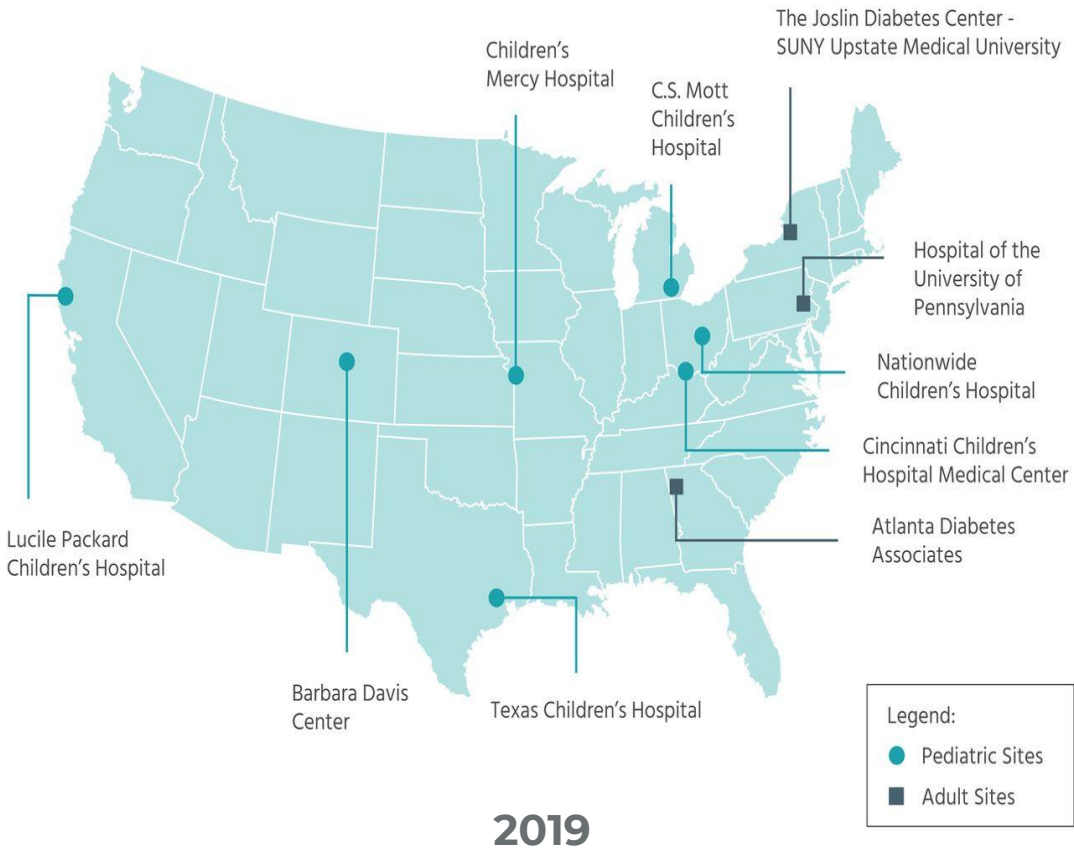
State of T1DX-QI in 2024: We are **TRANSFORMING** diabetes care

1. Transforming collaborative partnership
2. Transforming data sharing
3. Transforming outcomes for all people

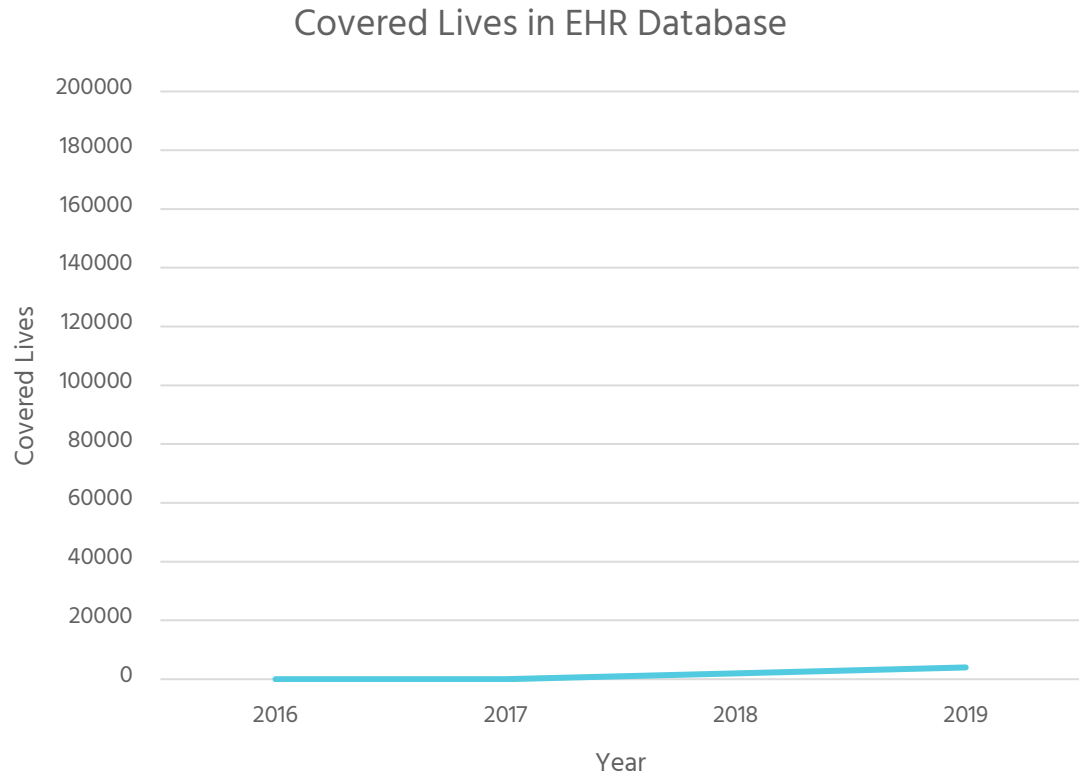


**Our T1DX-QI diabetes transformation
journey, 5 years in the making...**

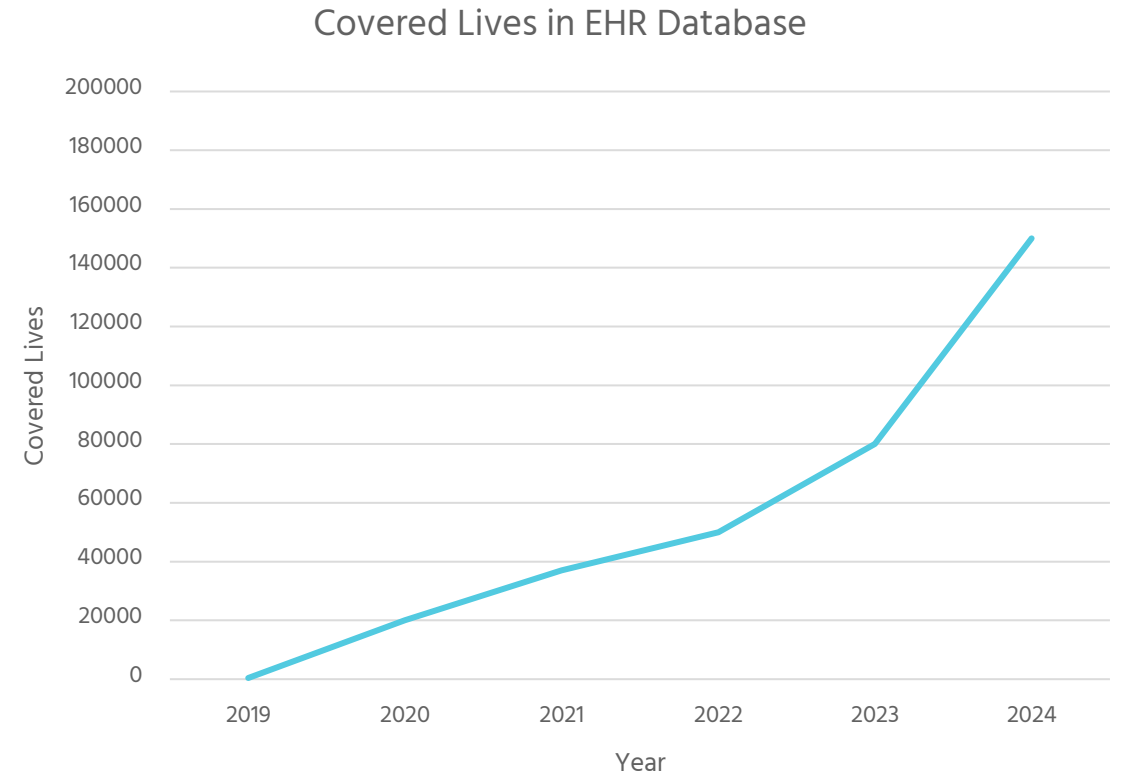
In 5 years, we expanded diabetes center quality improvement network from 10 to 62 centers



In 5 years, we grew electronic health record database from 6,000+ to 200,000+ covered lives with diabetes

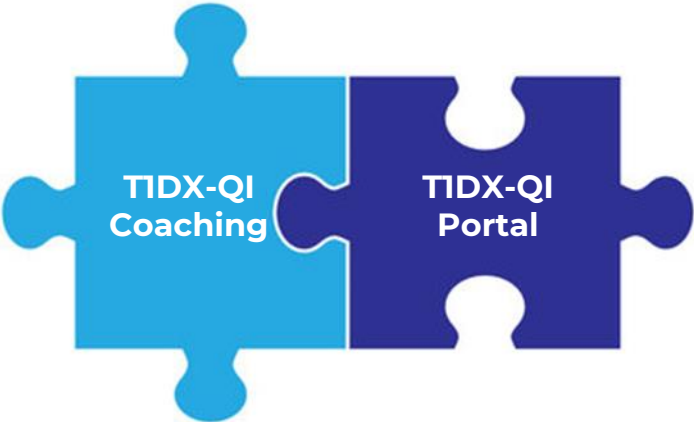


2019



2024

In 5 years, we diversified T1DX-QI program offering from 2 to 15 programs including health equity, T1D screening etc.

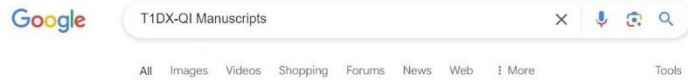


2019



2024

Zero manuscript in 2019 to 100+ in top journals including Nature, and Lancet



No
Results
Found

2019

- Wiley Online Library**
<https://onlinelibrary.wiley.com/doi/full/...>

T1D exchange quality improvement collaborative ...
by P Prahalad · 2022 · Cited by 13 — The **T1D Exchange** Quality Improvement Collaborative (**T1DX-QI**) was established in 2016 with 10 pilot centers, primarily consisting of pediatric sites.
- National Institutes of Health (NIH) (.gov)**
<https://www.ncbi.nlm.nih.gov/articles/PMC9845080>

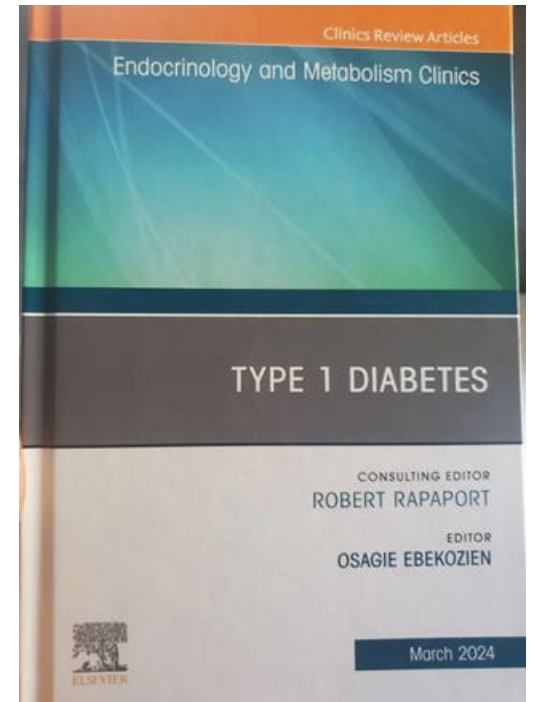
Evolution of the T1D Exchange Quality Improvement ...
by S Majidi · 2023 · Cited by 7 — **T1DX-QI** is a framework used to systematically improve systems and processes. It was established in 2016 and has continued to evolve throughout the past 6...
- The Lancet**
<https://www.thelancet.com/lancet/article/abstract/>

Interventions to address global inequity in diabetes
by AF Walker · 2023 · Cited by 30 — We codify and highlight best practice approaches to achieve equity in diabetes care and outcomes on a global scale.
- ScienceDirect.com**
<https://www.sciencedirect.com/science/article/abs/pii/>

Insights from the Type 1 Diabetes Exchange Quality ...
by A Addala · 2024 · Cited by 2 — The annual **T1DX-QI** survey included questions to evaluate racial equity in diabetes care and practices to promote equity.
- JAMA Network**
<https://jamanetwork.com/jamanetworkopen/fullarticle/>

EHR Assessment of 6 Type 1 Diabetes Habits and Their ...
by JM Lee · 2021 · Cited by 20 — ... **manuscript**; and decision to submit the **manuscript** for ... Establishment of the T1D Exchange Quality Improvement Collaborative (**T1DX-QI**).
- Mary Ann Liebert, Inc.**
<https://www.liebertpub.com/doi/full/dia.2022.0248>

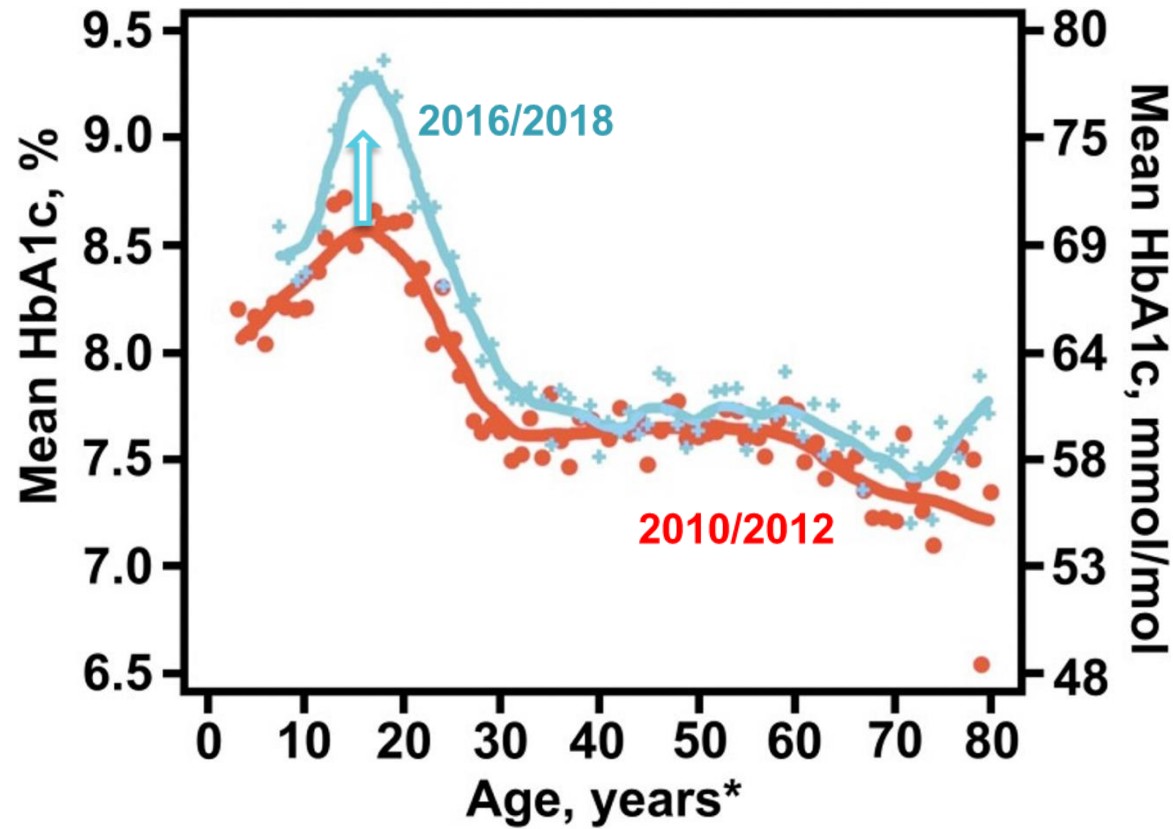
Transatlantic Comparison of Pediatric Continuous Glucose ...
by DJ DeSalvo · 2022 · Cited by 17 — We analyzed the proportion of CGM use in youth and young adults with T1D at nine U.S. T1D Exchange Quality Improvement (**T1DX-QI**) Collaborati...



2024

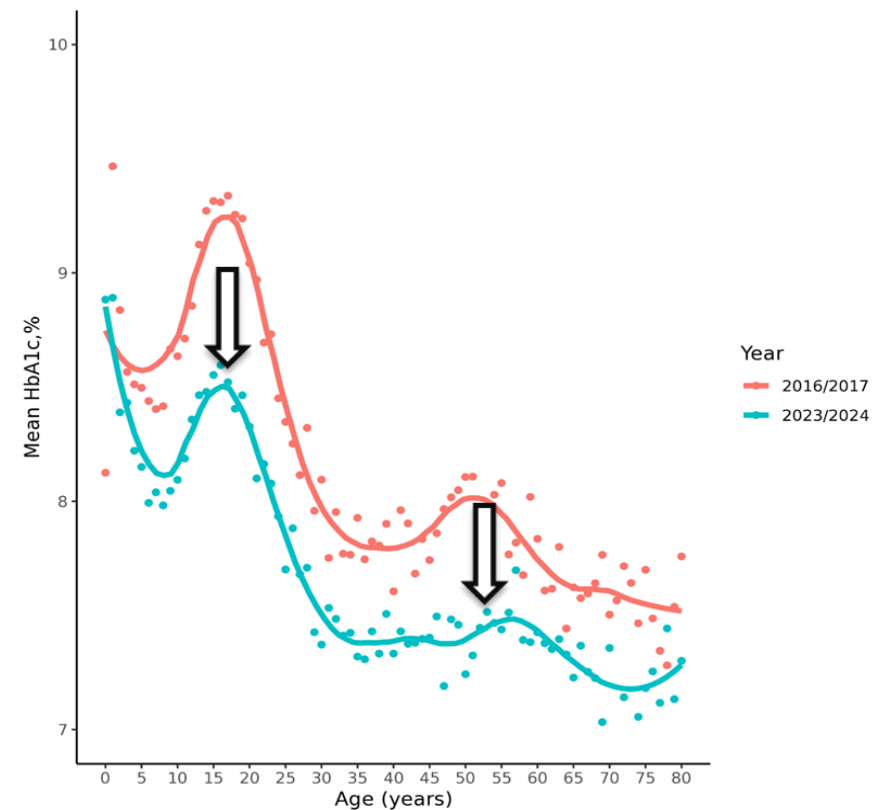


In 5 years, we reversed negative trends in diabetes outcomes from to now improving outcomes.



2019

Foster NC, Beck RW, Miller KM, et al. State of Type 1 Diabetes Management and Outcomes from the T1D Exchange in 2016-2018. *Diabetes Technol Ther* 2019;21(2):66-72, doi:10.1089/dia.2018.0384



2024

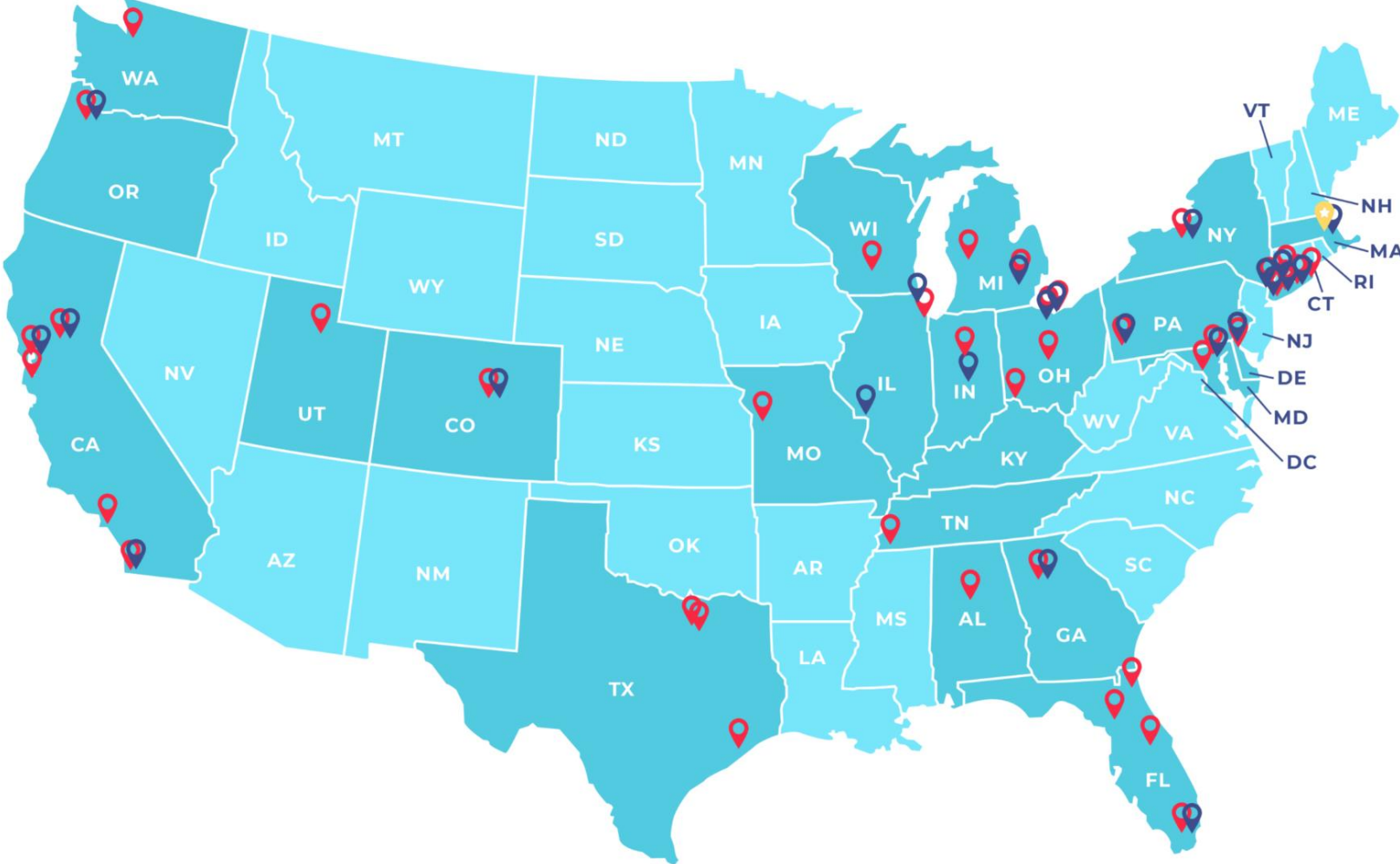
Ebekozien O. Longitudinal Trends in Glycemic Outcomes and Technology Use for Over 48,000 People with Type 1 diabetes (2016-2022) from the T1D Exchange Quality Improvement Collaborative. *Diabetes Technology and Therapeutics* 2023





**In 2024, we continue to transform
collaborative partnership**

We grew T1D clinical network from 58 to 62 T1D centers



 Adult  Pediatric  T1D Exchange HQ



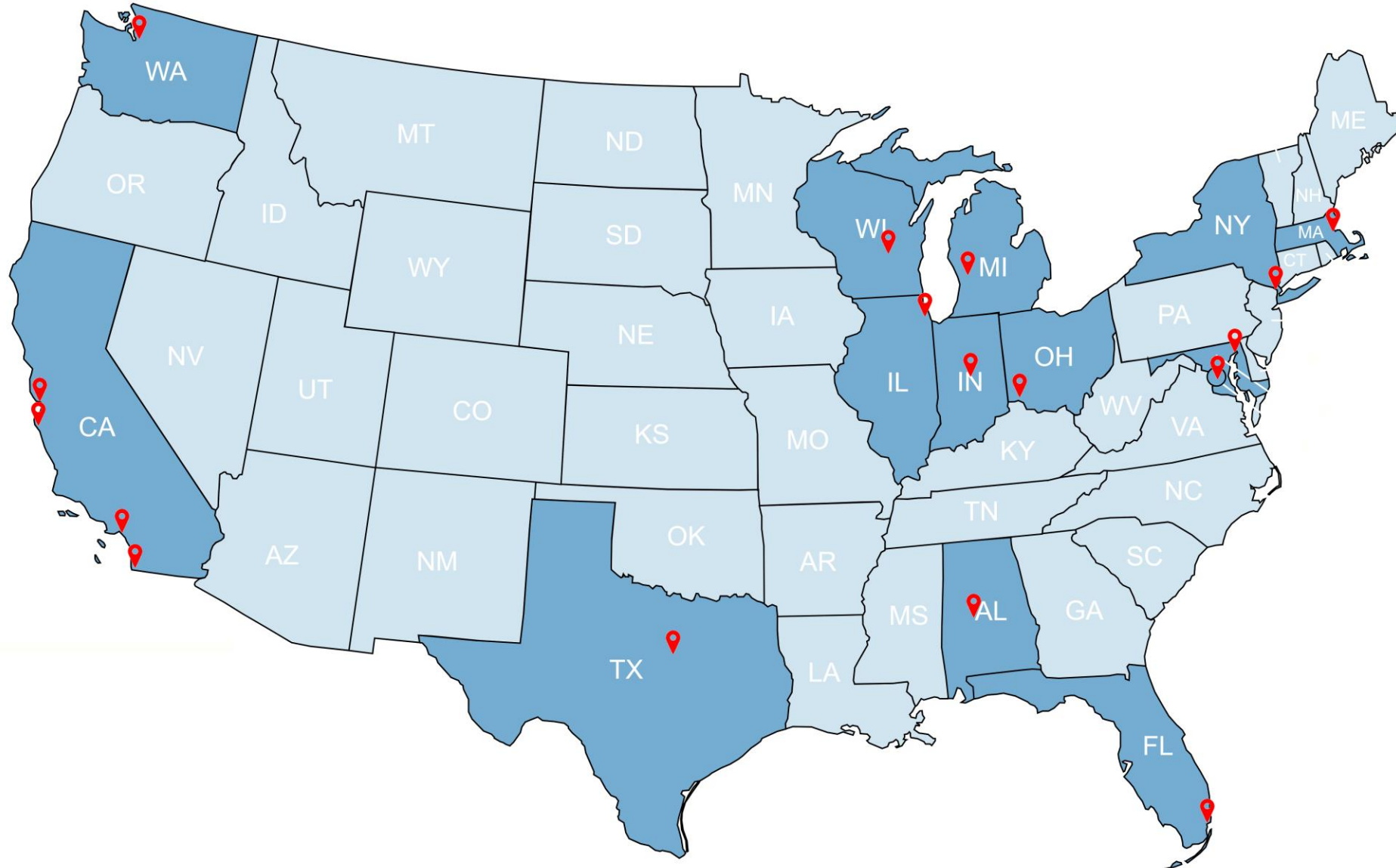
Expanded T1D EHR Dataset in 2024 (N=114,186)

	Total	<6 years	6-13 years	13-18 years	18-26 years	26-50 years	50-65 years	>=65 years
	114186	3248	19264	30237	33222	17021	6788	4406
Sex (Male)	58286 (51)	51 (1706)	1706 (53)	53 (9624)	9624 (50)	50 (16011)	16011 (53)	15757 (53)
Race/Ethnicity								
NH White	74316 (65)	2076 (64)	12032 (62)	18804 (62)	22439 (68)	11115 (65)	4564 (67)	3286 (75)
NH Black	14783 (13)	364 (11)	2606 (14)	4380 (14)	4094 (12)	2020 (12)	888 (13)	431 (10)
Hispanic	13597 (12)	374 (12)	2347 (12)	4034 (13)	3791 (11)	1980 (12)	754 (11)	317 (7)
Other	11490 (10)	434 (13)	2279 (12)	3019 (10)	2898 (9)	1906 (11)	582 (9)	372 (8)
Private Insurance	56731 (50)	1524 (47)	9340 (48)	14883 (49)	17704 (53)	9167 (54)	3455 (51)	658 (15)
HbA1c (Mean (SD))	8.1 (1.9)	8.3 (1.7)	8.2 (1.8)	8.5 (2.1)	8.3 (2)	7.5 (1.7)	7.4 (1.4)	7.2 (1.2)
HbA1c (Median (IQR))	7.6 (2.1)	8 (2.1)	7.8 (1.9)	8 (2.5)	7.7 (2.3)	7 (1.6)	7.2 (1.5)	7 (1.3)
CGM use (Yes)	48936 (84)	1724 (86)	11403 (89)	15665 (86)	9883 (83)	6158 (77)	2555 (78)	1548 (71)

^a Missing data; column totals may not add up to 100%; ^b Device information available on a subset of the population



We grew T2D clinical network from 5 to 17 centers



Expanded T2D EHR Dataset in 2024 (N=85,931)

	Total	18-26 years	26-50 years	50-65 years	>=65 years
	85931	757	14097	30097	40993
Sex (Female)	43843 (51)	454 (60)	7258 (51)	14570 (48)	21590 (53)
Male	42079 (49)	303 (40)	6835 (48)	15525 (52)	19400 (47)
Race/Ethnicity					
NH White	19977 (23)	219 (29)	1967 (14)	5698 (19)	12067 (29)
NH Black	40340 (47)	305 (40)	7230 (51)	16043 (53)	16780 (41)
Hispanic	6307 (7)	97 (13)	1385 (10)		
Other	19307 (22)	136 (18)	3515 (25)	6154 (20)	9517 (23)
Public Insurance	49707 (58)	311 (41)	4417 (31)	11584 (38)	33427 (82)
HbA1c <7%	20150 (53)	120 (47)	2790 (50)	6583 (49)	10667 (57)
CGM use	12358 (23)	97 (57)	2278 (27)	4638 (25)	5278 (21)
Obesity (Yes)	17192 (50)	152 (69)	3246 (67)	6871 (57)	6923 (40)

Embracing the power of quality improvement and implementation science

COMMENTARY | AUGUST 15 2024

Increasing Access to Connected Insulin Pens by Promoting Shared Decision-Making Through Collaborative Quality Improvement **FREE**

In Special Collection: [Increasing Use of Connected Insulin Pens Through Shared Decision-Making](#)

Jared G. Friedman; Ori Odugbesan; Osagie Ebeozien; Grazia Aleppo  

QUALITY IMPROVEMENT SUCCESS STORY | AUGUST 15 2024

Strategies to Increase the Use of Connected Insulin Pens Through Shared Decision-Making: A Quality Improvement Success Story **FREE**

In Special Collection: [Increasing Use of Connected Insulin Pens Through Shared Decision-Making](#)

Jared G. Friedman; Philip Silberman; Stefanie Herrmann; Grazia Aleppo  

QUALITY IMPROVEMENT SUCCESS STORY | AUGUST 15 2024

Partnering With Families Through Shared Decision-Making to Increase Connected Pen Use: A Quality Improvement Success Story **FREE**

In Special Collection: [Increasing Use of Connected Insulin Pens Through Shared Decision-Making](#)

Blake V. Adams; Anna T. Heston; Diveena Davis; Grace B. Nelson  

QUALITY IMPROVEMENT SUCCESS STORY | AUGUST 15 2024

Increasing Awareness and Uptake of Connected Insulin Pens for Eligible Patients With Diabetes: A Quality Improvement Success Story **FREE**

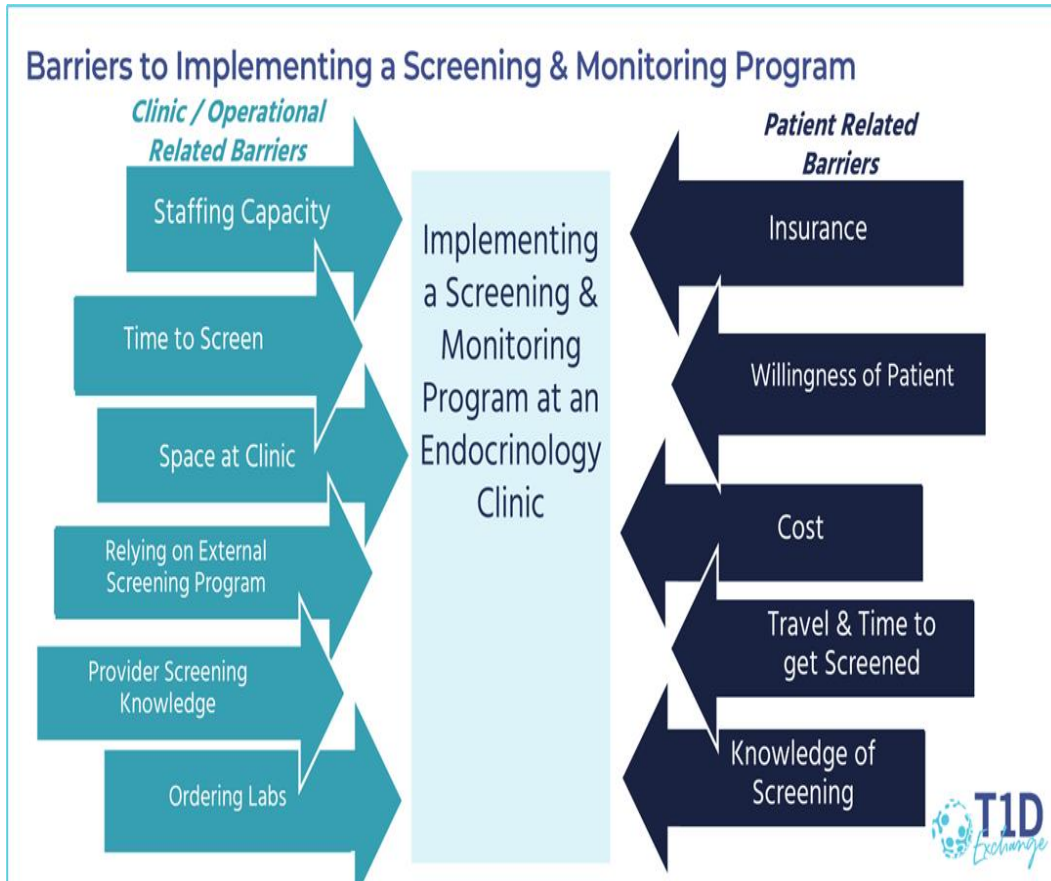
In Special Collection: [Increasing Use of Connected Insulin Pens Through Shared Decision-Making](#)

Victoria Lee He  ; Nancy Shin; Henna Shaghasi; Sandra A. Tsai

Improve outcomes by automating workflows

- Screening and monitoring for pre-symptomatic type 1 diabetes

- Best Practice Advisories



Best Practice Advisories for Tech Equity (BPA-TECH) Updates



Aim 1: To develop and implement an EHR-based Best Practice Advisory alert (BPA) using stakeholder feedback to standardize the approach for prescribing and documenting advanced diabetes technologies (ADT).



Aim 2: To determine the effectiveness of an EMR-based BPA in reducing racial inequities in ADT.



Aim 3: To explore the reasons identified for providers decision to not prescribe ADT and whether they were PwT1D or provider led decisions, and the association between the reason provided and the PwT1D's race/ethnicity.

We are transforming outcomes by learning beyond the US

Demographic, Clinical, Management, and Outcome Characteristics of 8,004 Young Children With Type 1 Diabetes 🛒

Jessica L. Sandy ; Sascha R. Tittel; Saketh Rompicherla; Beate Karges; Steven James; Nicole Riales; Anthony G. Zimmerman; Elke Fröhlich-Reiterer; David M. Maahs; Stefanie Lanzinger; Maria E. Craig ; Osagie Ebekozi; Australasian Diabetes Data Network (ADDN); T1D Exchanged Quality Improvement Collaborative (T1DX-QI); Prospective Diabetes Follow-Up Registry Initiative (DPV)

The Lancet Diabetes & Endocrinology

Treatment regimens and glycemic outcomes in >100,000 children with type 1 diabetes over a ten-year period: an observational comparison of eight National and one International pediatric diabetes registries.

Treatment regimens and glycemic outcomes in >100,000 children with type 1 diabetes over a ten-year period: an observational comparison of eight National and one International pediatric diabetes registries.

Anthony T Zimmermann FRACP ^a, Stefanie Lanzinger PhD ^{b,c}, Siv Janne Kummernes MSc ^d, Nicolai A Lund-Blix PhD ^d, Reinhard W Holl MD ^{b,c}, Elke Fröhlich-Reiterer MD ^e, David M Maahs PhD ^f, Osagie Ebekozi MD ^{g,h}, Saketh Rompicherla MS ^e, Prof Justin T Warner MD ⁱ, Saira Pons Perez MA ^j, Holly Robinson MRes (Psych) ^k, Prof Maria E Craig PhD ^{l,m}, Stephanie Johnson PhD ⁿ, Karin Akesson PhD ^{o,p,q}, Alexander Thorén MSc ^q, Katarina Eeg-Olofsson PhD ^{q,r,s}, Ajenthen G Ranjan PhD ^t, Mette Madsen MD ^{u,v,w}, Michael Witsch MD ^x, Heiko Bratke MD ^y, G. Todd Alonso MD ^z, Zdenek Sumnik PhD ^{aa}, Vit Neuman PhD ^{aa}, Ondrej Cinek PhD ^{aa}, Prof Torild Skrivarhaug PhD ^{d,bb,cc *}, Jannet Svensson PhD ^{t,dd,ee *}

Type 1 diabetes pathogenesis and new therapies

1型糖尿病发病机制及新疗法



Guest Speaker:
Professor Osagie
Ebekozi, MD, MPH

Date/Time: Saturday June 1, 9:30pm local Boston time: 9:30am local Beijing time 上午九點三十分

Organized by: American Diabetes Association and Beijing Medical and Health Foundation








Audience: Endocrinologists and Diabetes providers caring for people with diabetes in China




We are transforming outcomes beyond the clinic

FEATURE ARTICLE | OCTOBER 23 2024

LGBTQ+ Supportive and Inclusive Care Practices: Survey Data From the T1D Exchange Quality Improvement Collaborative 🛒

Jaquelin Flores Garcia  ; Shideh Majidi ; Ann Mungmode ; Mark W. Reid ; Carla Demeterco-Berggen ; Nicole Riales ;
Margarita Ochoa-Maya; David M. Maahs; Ryan J. McDonough; Osagie Ebekoziem ; Jennifer K. Raymond;
T1D Exchange Quality Improvement Collaborative

The Impact of War and Conflict on People Living with Diabetes: A Scoping Review

Emma Ospelt¹ , Ann Mungmode¹, Holly Hardison¹, Anton Wirsch¹,
Nicole Riales¹, James Dawson¹, McKing Amedari³, Halis. K. Akturk²,
Viral N. Shah⁴, Nuha El Sayed^{5, 6}, Osagie Ebekoziem^{1, 3}

The Impact of Climate Change on People Living with Diabetes: A Scoping Review

[Emma Ospelt](#), Holly Hardison, Ann Mungmode, Nudrat Noor, Kolawole Bankole, Nnabuchi Anikpezie, Charles Chima, Awadhesh K. Singh, Trevon Wright,
Victor Elisha, Viral N. Shah, Osagie Ebekoziem

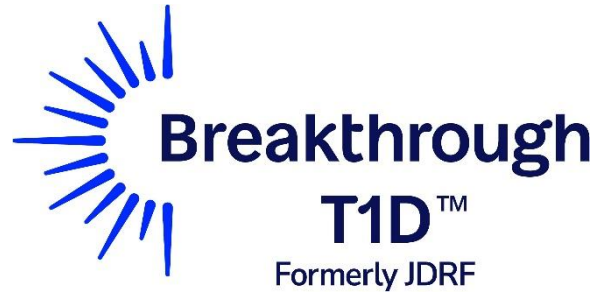
DOI: 10.5603/DK.a2023.0012

Clin Diabetol 2023;12(3):186-200.



Transform outcomes by collaborating on policy and advocacy issues

THE LEONA M. AND HARRY B.
HELMSLEY
CHARITABLE TRUST



GEORGETOWN UNIVERSITY
School of Medicine



Transform outcomes by supporting new therapies



Abstract 922

DIABETIC KETOACIDOSIS AND SEVERE HYPOGLYCEMIA IN ADULTS WITH TYPE 1 DIABETES AND CHRONIC KIDNEY DISEASE: DATA FROM T1D EXCHANGE REAL-WORLD OBSERVATION STUDY

Type: Abstract Submission

Topic: AS21. Other

Authors: [Tae Won Yi](#)¹, Lucas Hernandez², Slaven Sikirica², Saketh Rompicherla², Susan Thapa², Michael Davies², Francesco Vendrame², David Lam², Nirali Shah², Guillermo Umpierrez², Osagie Ebekozen², David Cherney¹; ¹Canada, ²United States of America

Abstract 990

HEALTHCARE DISPARITIES IN ADULTS WITH TYPE 1 DIABETES AND CHRONIC KIDNEY DISEASE

Type: Abstract Submission

Topic: AS21. Other

Authors: [Slaven Sikirica](#)¹, Saketh Rompicherla¹, Osagie Ebekozen¹, Shivani Agarwal¹, Halis Akturk¹, Craig Granowitz¹, Michael Davies¹, Tae Won Yi², Lucas Hernandez¹, David Cherney², Guillermo Umpierrez¹; ¹United States of America, ²Canada

Real-world Total Daily Insulin Dose in 14,358 Young Individuals With Type 1 Diabetes in the US: Data From the T1D Exchange Quality Improvement Collaborative

[Osagie Ebekozen](#)^{1,2}, Saketh Rompicherla¹, Selorm Dei-Tutu³, Justin A. Indyk⁴, Janine Sanchez⁵, Allison Mekhoubad⁶, Meredith Wilkes⁷, Rachel Bhak⁸, Dayna McGill⁸, Tina Gupta⁸, Yumin Zhang⁸, Jason Gaglia^{8,9}

¹T1D Exchange, Boston, MA; ²University of Mississippi School of Population Health, Jackson, MS; ³Texas Children's Hospital/Baylor College of Medicine, Houston, TX; ⁴Nationwide Children's Hospital, Columbus, OH; ⁵University of Miami Miller School of Medicine, Miami, FL; ⁶Northwell Cohen Children's Medical Center, Northwell Health, Queens, NY; ⁷Icahn School of Medicine at Mt. Sinai, New York, NY; ⁸Vertex Pharmaceuticals Incorporated, Boston, MA; ⁹Joslin Diabetes Center, Harvard Medical School, Boston, MA

Presented at the 60th Annual Meeting of the European Association for the Study of Diabetes
September 9-13, 2024, Madrid, Spain

©2024 Vertex Pharmaceuticals

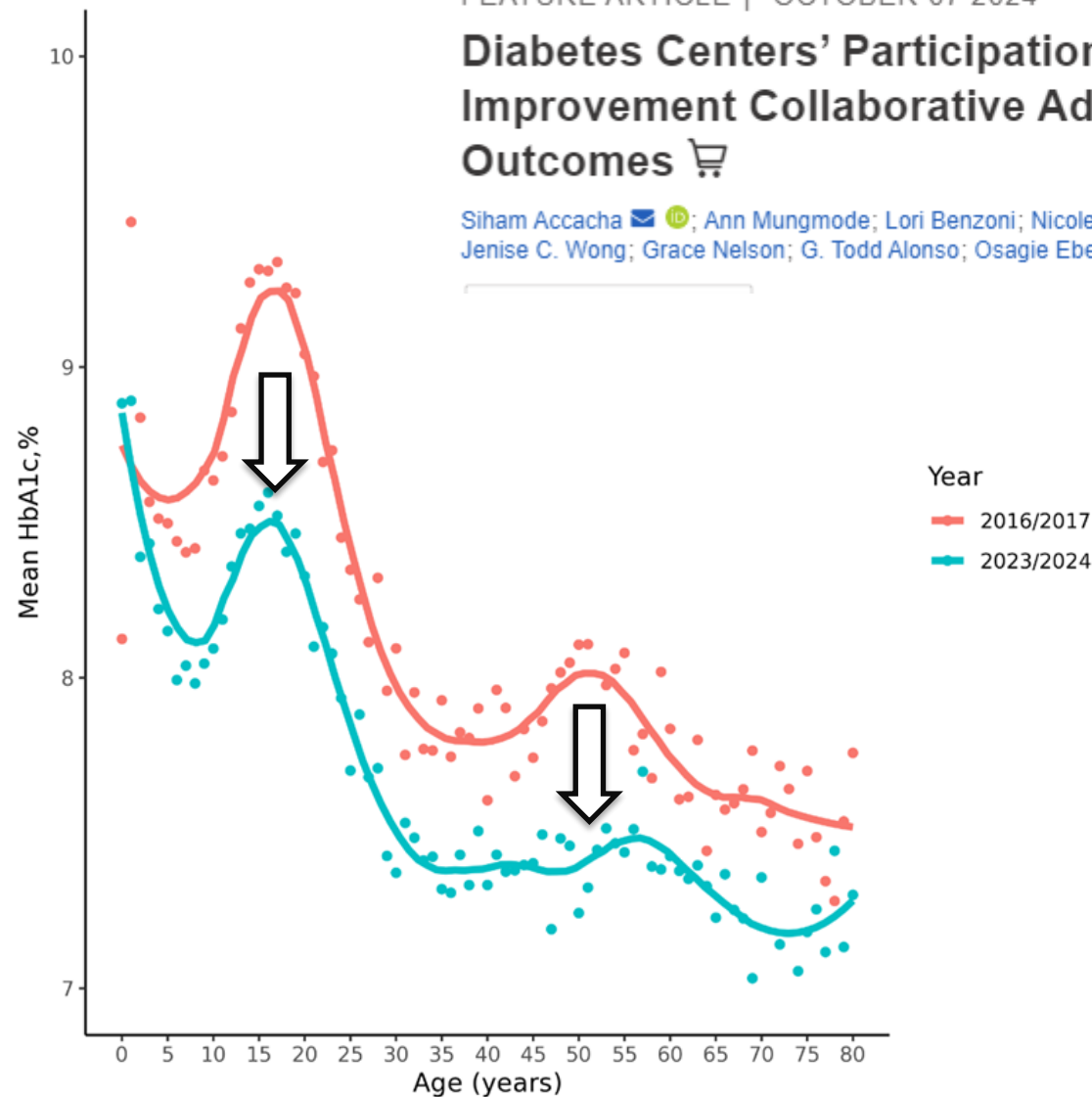


Meaningful and Significant Improvement across the life span

FEATURE ARTICLE | OCTOBER 07 2024

Diabetes Centers' Participation in the T1D Exchange Quality Improvement Collaborative Advances Health Equity and Clinical Outcomes 🛒

Siham Accacha 📧 🇺🇸; Ann Mungmode; Lori Benzoni; Nicole Riales; Grazia Aleppo; Devin Steenkamp; Carol J. Levy; Zoltan Antal; Jenise C. Wong; Grace Nelson; G. Todd Alonso; Osagie Ebekoziem



Ebekoziem O. Improving Outcomes for people with diabetes through collaboration. Endo Clinics 2023

Ebekoziem O. Longitudinal Trends in Glycemic Outcomes and Technology Use for Over 48,000 People with Type 1 diabetes (2016-2022) from the T1D Exchange Quality Improvement Collaborative. Diabetes Technology and Therapeutics 2023



Thank you to our co-chairs 2024-2026

Clinical Leadership



Carla Demeterco-Berggren, MD, PhD
Rady Children's Hospital



Francesco Vendrame, MD, PhD
University of Miami

Data Science



Ryan McDonough, DO, FAAP
Children's Mercy Kansas City



Niral Shah, MD Icahn
School of Medicine at
Mt. Sinai

Data Governance



David Hansen, MD, MPH
Upstate University
Medicine

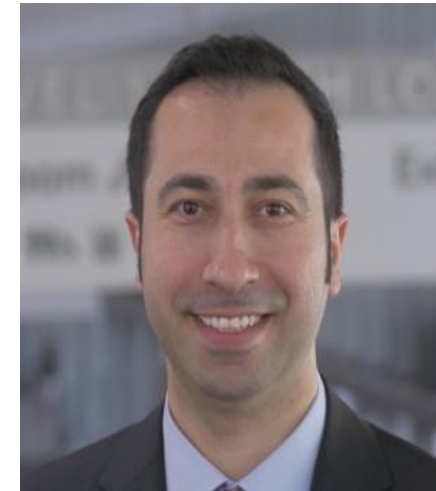


Georgia Davis, MD
Grady Memorial
Hospital

Publication



Stephanie Crossen, MD, MPH
University of California Davis



Halis K. Akturk, MD
Barbara Davis Center

People with Diabetes Advisory Committee



Jeniece Ilkowitz, RN, MA,
Hassenfeld Children's
Hospital at NYU Langone



Emily Coppedge, NP
Weil Cornell Medicine

QI Champion Committee



Blake Adams, BSN, RN
Le Bonheur Children's Hospital

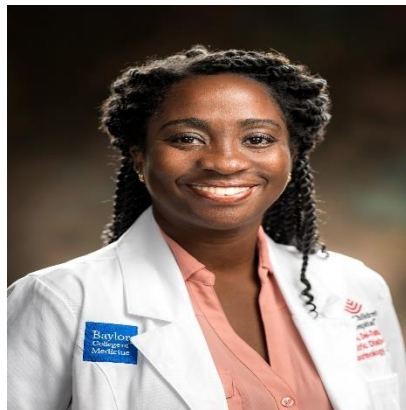


Lydia Holly, BSN, RN
Children's National Hospital

Health Equity Lab



Ashley Butler, PhD
Baylor College of
Medicine/Texas Children's
Hospital



Selorm Dei-Tutu, MD, MPH
Baylor College of
Medicine/Texas Children's
Hospital

International Collaboration



David Maahs, MD, PhD
Lucile Packard Children's
Hospital. Stanford
University



Daniel DeSalvo, MD
Baylor College of
Medicine/Texas
Children's Hospital



Todd Alonso, MD
Barbara Davis Center



Boston T1D-QI Coordinating Center Team



Chief Medical Officer
Osagie Ebekoziem,
MD, MPH



Associate Director of QI &
Health Equity
Ori Odugbesan, MD, MPH



Senior Director of Clinical
Partnerships
Nicole Rioles, MA



Manager, Quality
Improvement and Special
Projects
Trevon Wright, MHA



QI Analyst
Holly Hardison, BS



Associate Director Real
World Data,
Susan Thapa, PhD, MPH



Senior Data Analyst, Real
World Data
Emma Ospelt, MPH



Population Health
Analyst,
Saketh Rompicherla, MS



Analyst, Real World Data
Dhruvi Vora, BS



Senior QI Consultant,
Don Buckingham, Sr., MBOE,
CPHQ



QI Analyst
Timothy Bol, BA



Lead, Data Management
Anton Wirsch, MS



Data Integration Analyst
James Dawson, BS



We are ready for the next 5 years

