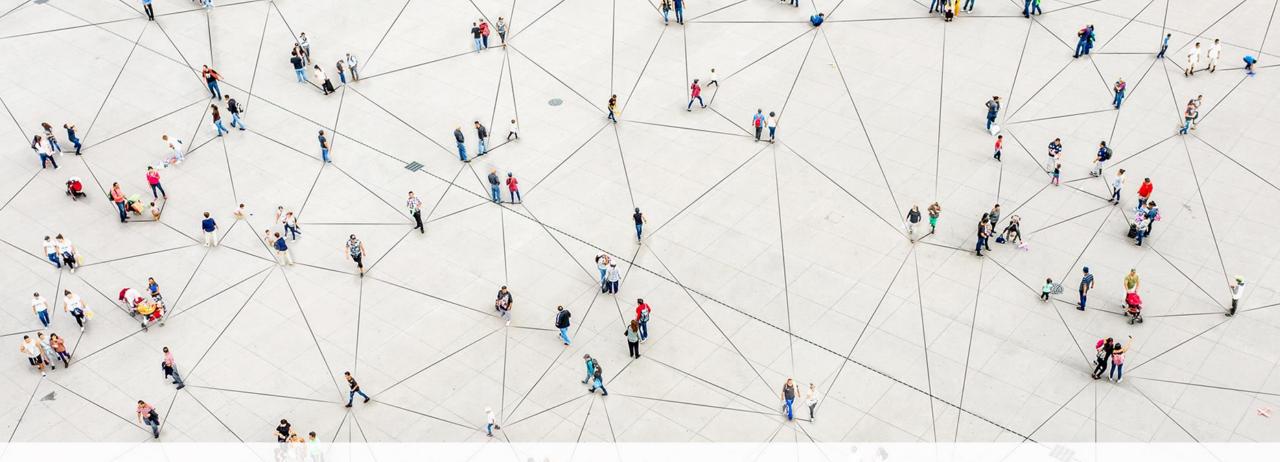
### **Opening Remarks from TID Exchange**



**David Walton, MBA** 







# **TID Exchange Overview**

November 2024 Learning Sessions

tldexchange.org

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### Thank You Learning Session Sponsors!!!!

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## **TID Exchange drives real world impact in diabetes**

- Nonprofit dedicated to improving diabetes outcomes through RWE and collaborative change
- HQ in downtown Boston
- 33 people\*
  - 2 w/ MD
  - 6 w/ PhD
  - 7 w/ MPH
  - 6 w/ TID
- Funding
  - 60% in grants from foundations
  - 40% from revenue from custom research projects, collaborations & sponsorships





\* Some have dual degrees

# TID Exchange: Key Programs

• Quality Improvement & Population Health

• Online Direct to Participant Registry

• Custom Research (e.g., outcomes / market)

• Online Community

Study Recruiting











# TID Exchange Registry Participants (Nov 2024)

- Over 20,600 people with TID have been screened, consented and have completed a baseline questionnaire since 2019
  - o 17,500+ adults
  - o 3,000+ children (<18)



- Nearly 3,850 adults have also shared longitudinal continuous glucose monitoring (CGM) device data via Dexcom Clarity API
- Almost 24,000 annual questionnaire updates have been completed (note: only 3,000 were eligible to complete annual update in 2021, with about 5,000 additional eligible participants each year)
- Heavy technology use (CGM, insulin pumps, etc.) and good glucose control in the majority of participants
- Good age distribution Skewed towards women, highly educated and white

### Primary Data Collected in Registry (Patient-Reported)

- Demographic and socioeconomic
- Insurance and access
- Clinical
  - Age and date diagnosis
  - o AlC
  - Glucose thresholds for correction (hyperglycemia and hypoglycemia)
  - DKA and severe hypoglycemia
  - Height and weight
  - o Care team
  - Family history TID, T2D
  - Psychosocial (diabetes distress, anxiety and depression)
  - Other comorbidities
- Diabetes management
  - Insulin brand
  - Insulin delivery method & brand
  - Total daily dose of insulin (basal, bolus amounts)
  - BGM/CGM use and brand
  - Noninsulin medications



# Data Expansion: Registry Data Linking Initiative (BreakthroughTID)

- Goal: To augment our Registry data (self-reported data and CGM tracings) with complementary data from the same individuals found in external data repositories, unlocking novel and impactful TID research areas
- Method: Tokenize PII of Registry cohort to enable token-based links
  - Expert determination used to ensure HIPAA-compliant anonymized linkage
  - Exempt determination secured from our IRB

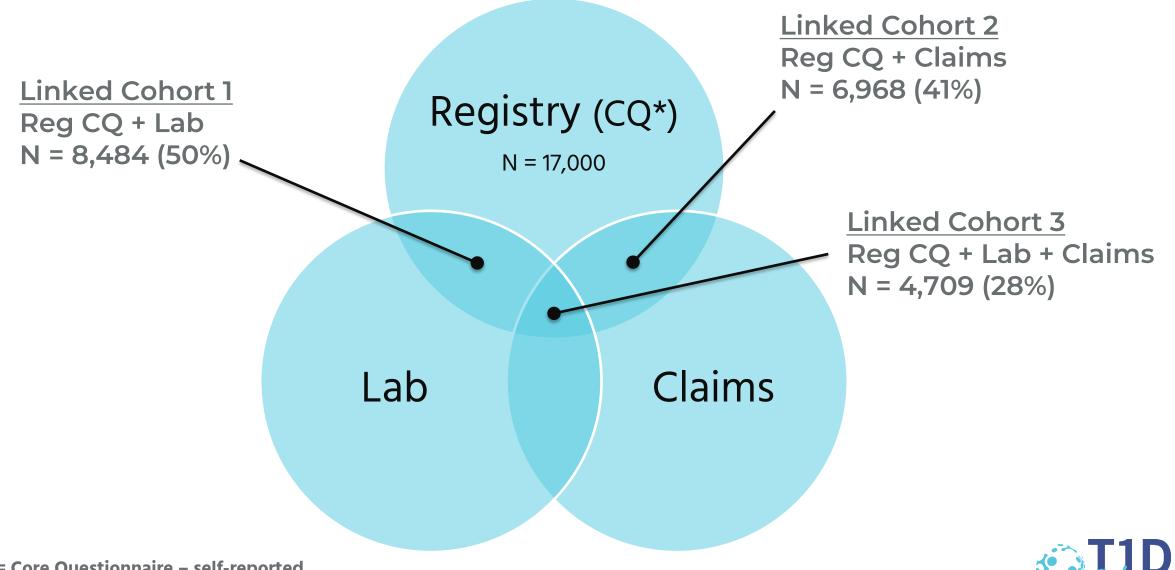
#### Partners

- Datavant tokenization algorithm, access to potential partners via Datavant portal, expert determination / HIPAA certification
- Panalgo data partner
  - Lab (MMIT): 50% overlap with Registry
  - Closed medical/pharmacy claims (Tessa): 41% overlap with Registry

#### Both data sets span from 1/1/2017 – early 2024 (7+ years)

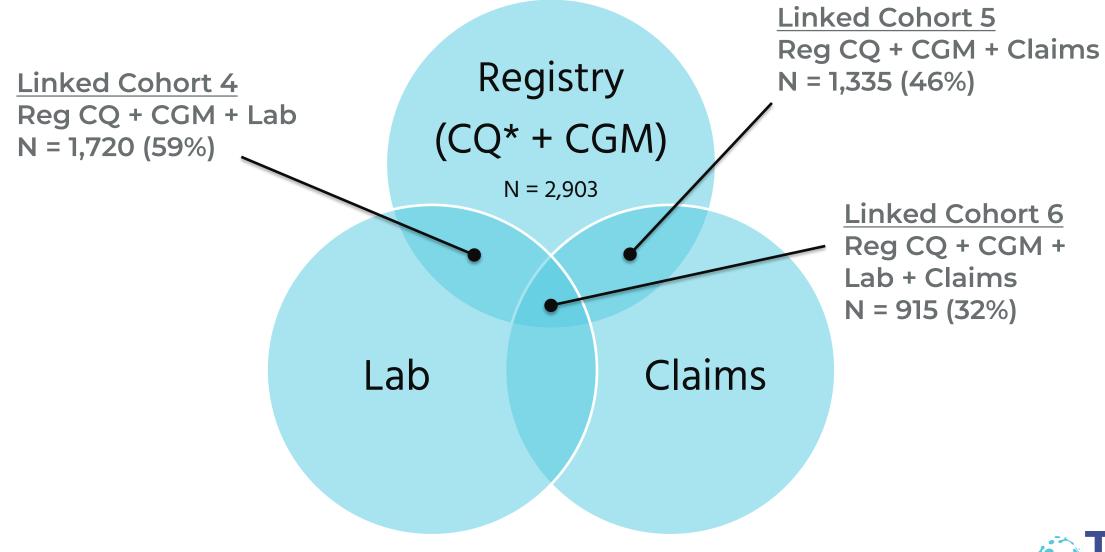


### **Current Overlaps and Cohorts**



\* CQ = Core Questionnaire – self-reported

### **Current Overlaps and Cohorts**



\* CQ = Core Questionnaire – self-reported

### Research Questions – Breakthrough TID Grant

- Interrogation of the targets and ranges used in current clinical guidelines to determine fundamental real-world evidence around topics including:
  - How many people with TID meet the current recommended glycemic management targets and targets for other labs?
  - Are the targets appropriate (based on complications/comorbidities dx's), or do realworld data indicate they should be updated?
- 2. What level of improvement in CGM-derived metrics constitutes a clinically meaningful improvement in clinical endpoints?

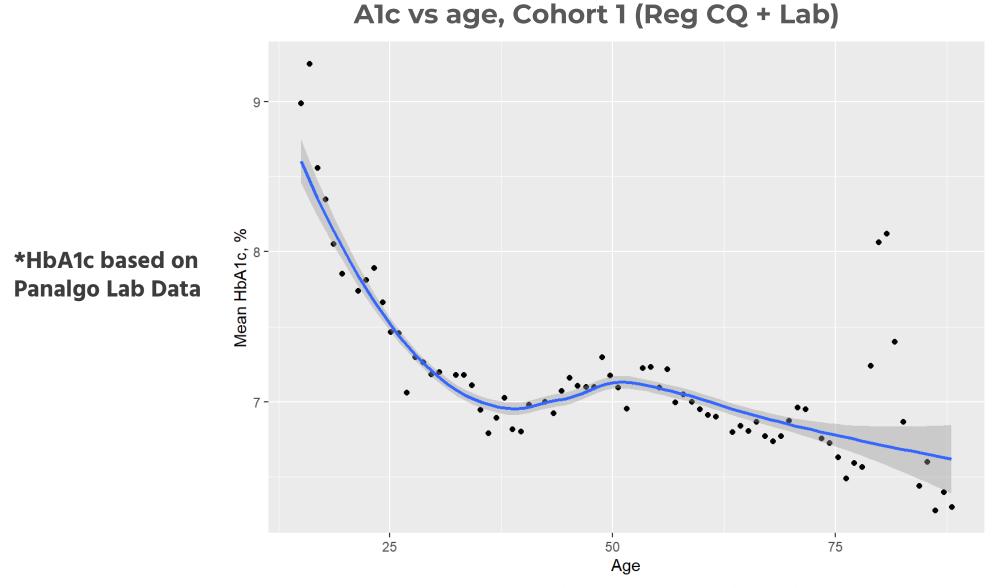
**3.** Adjunctive medications: What are the benefits, risks, and outcomes in T1D?

- GLP-1 receptor agonists (e.g., Ozempic, Wegovy, Victoza)
- SGLT2 inhibitors (e.g., Invokana, Jardiance)
- CVD-related medications





### HbAlc vs age shows "similar" pattern to other sources

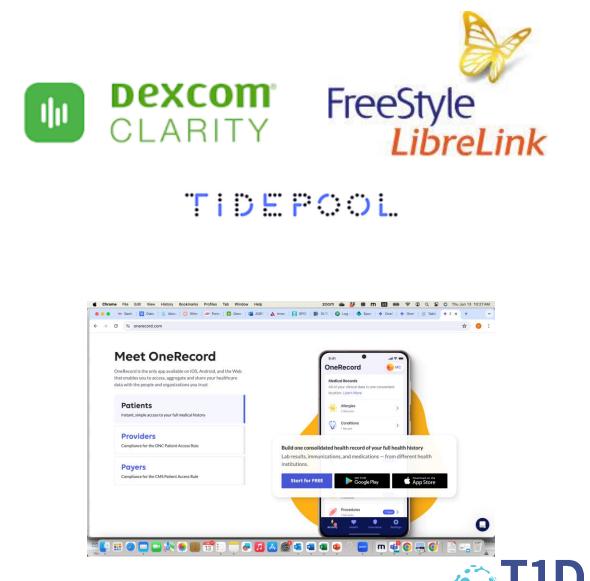




\*Among people in T1D Exchange Online Registry

# **Building our Registry Data via Participants**

- Continue growth of CGM data
  - Dexcom 3,850 sharers goal to reach 5,000 in 2025
  - Discussing Libre data sharing with Abbott
  - Re-engaging with Tidepool to discuss both EMR integration and direct connection to online Registry
- Pilot addition of EMR data for 200 participants using One Record
  - Participant searches and selects provider(s) and imports EMR data into our environment



### **Custom Research Areas of Activity**

- Interviews
- Focus groups
- Cross-sectional surveys
- Longitudinal surveys
- Mixed method design
- Patient reported outcomes
- CGM analysis (linked to survey responses or other data)
- Quantitative and qualitative data analyses
- Abstract/publication development & presentations



## Some 2024 Publications of our Custom Research

 Severe Hypoglycemia and Impaired Awareness of Hypoglycemia Persist in People With Type 1 Diabetes Despite Use of Diabetes Technology: Results From a Cross-Sectional Survey (Sherr JL, et al.)

 The Emotional Burden of Type 1 Diabetes: A Cross-Sectional Study to Understand Associations Between Diabetes Distress and Glucose Metrics in Adulthood (Kelly CS, et al.)

 Insights into Knowledge and Attitudes About Autoantibody Screening from People Affected by Type 1 Diabetes: A Brief Report (Kelly CS, et al.)

Note: Several additional manuscripts have been or will be submitted by Dec 2024

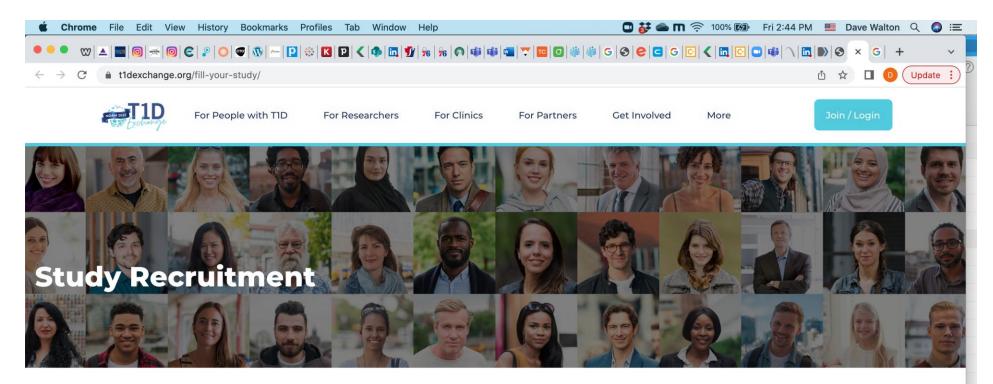








### **Study Recruitment Assistance**



#### **Fill Your Study Faster**

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TID Exchange accelerates research through our successful study recruitment efforts. With more than 45,000 people directly connected to TID in our Registry and Online Community, we have built a community that is a source for study recruitment.

Over the past few years, we have helped to quickly fill dozens of TID research studies, sometimes within just a matter of minutes.

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#### Here's a glance at the variety of research our extensive recruitment efforts made possible:

- · Patient experiences of severe hypoglycemia
- Safety, tolerance, and potential efficacy of cell-based therapy
- Patient experiences with closed-loop insulin pump apps
- Patient evaluation of adhesives for an investigation CGM sensor
- Safety, tolerability, and efficacy of islet cell infusion therapy
- Financial stress related to diabetes for T1D caregivers
- · Effects of exercise on blood glucose levels



# **Study Recruitment: Partnering with Universities**

- Diabetes Distress Survey
- Behavioral Intervention in Emerging Adult Study
- Nutrition in Older Adults Survey
- Artificial Intelligence in Healthcare & Diabetes Survey
- Swimming and Impact on Diabetes Survey
- Microvascular Dysfunction with GLP-1 RA and Exercise Clinical Trial

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- Exercise in Diabetes Survey
- Intermittent Fasting in Adults with TID Study
- NIDDK Covid Assessment Study
- CGM Pilot Study
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Stanford

at CHAPEL HILL

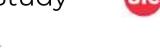
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UNIVERSIT





VANDERBILT UNIVERSITY



# Study Recruitment: Partnering with Industry Sponsors

- Clinical Study of VX-880 Islet Cell Infusion in TID
- Clinical Study of CT-868 GLP-1/GIP RA in TID
- Clinical study of ZT-01 to prevent nocturnal hypoglycemia in T1D
- Clinical study of HDV-Lispro, liver-targeted insulin to reduce hypoglycemia risk Diasome
- Clinical study of Pfizer's Paxolovid in Peds w/ chronic disease (not started) *CPfizer*
- Clinical Study of Finerenone in Chronic Kidney Disease(CKD) and TID
- Gathering saliva samples for tool to discern TID vs T2D in newly diagnosed 🔀 Genomelink
- Survey on Experiences with Insulin Infusion Disruption / Occlusions

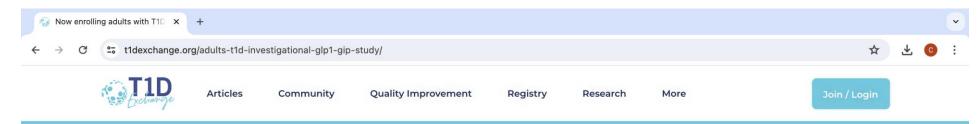








## New Capability: TIDX-Hosted Study Landing Page



#### **TID Exchange is collaborating with Carmot** Therapeutics to help recruit for their clinical trial evaluating a new GLP-1/GIP specifically designed for people living with T1D.

TID Exchange is not a sponsor and is not administering this clinical trial, nor are we implying that you will qualify. We are sharing this information with you so you can decide whether or not to seek more information or to participate.



See if You Qualify

#### **TRIAL DETAILS**

type 1 diabetes (T1D).

Carmot Therapeutics, Inc., is conducting a clinical trial to

THERAPEUTICS evaluate a new GLP-1/GIP for treatment of overweight and obese adults with

CARMOT

Over the past few years, GLP-1/GIP medications, such as Mounjaro, have transformed the diabetes management landscape through their ability to support weight loss and glucose management. However, these medications

#### **ELIGIBILITY CRITERIA**

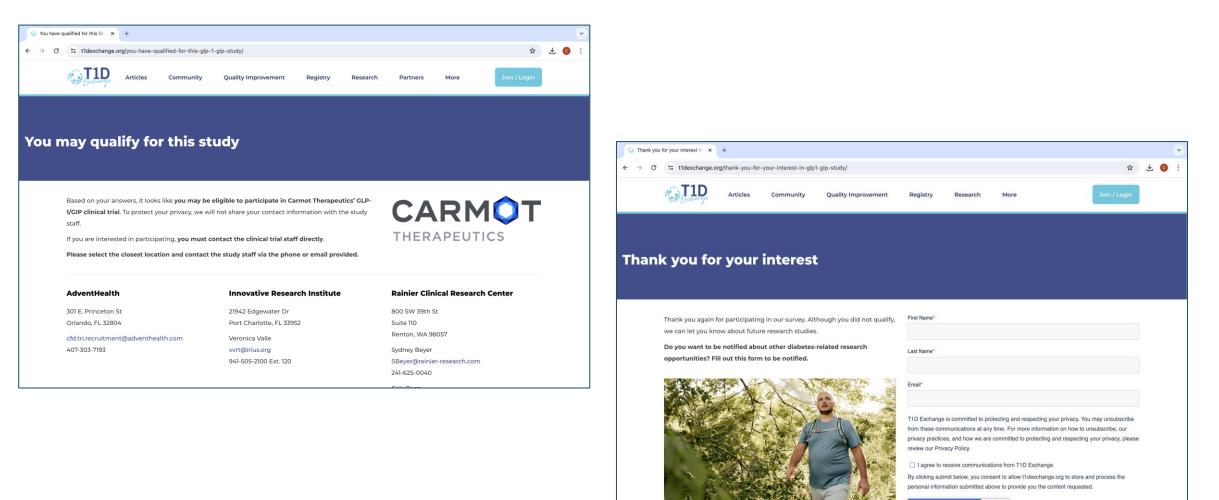
Carmot Therapeutics is looking for adults (age 18 or older) who:

- Have type 1 diabetes;
- Are generally healthy and do not use tobacco;
- Have an AIC level between 7% to 10%;
- Have been using a CGM for at least 3 months;
- Have a Body Mass Index (BMI) of 27 or greater and have not



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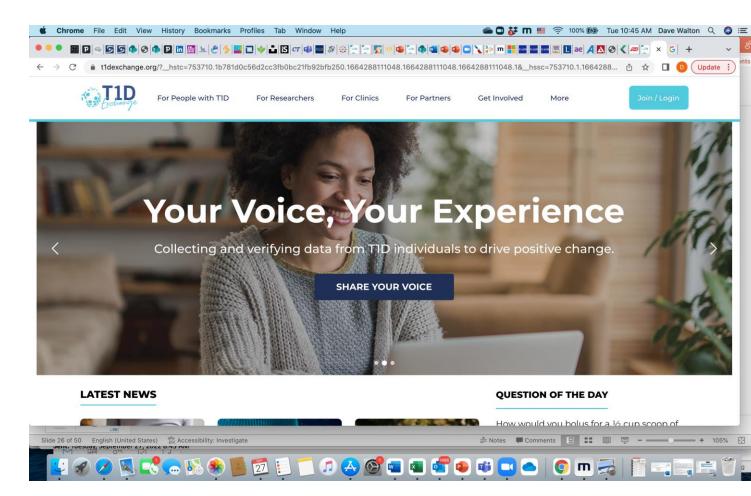
# **Participant Eligibility Screening**



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# **Online Community & Resources**

- Over 30,000 email addresses (75%+ are TIDs)
- More than 30,000 social media followers
- Post Question of the Day
- Send/post featured articles on companies, technologies or other relevant diabetes topics
- Provide resources on website (e.g., Automated Insulin Delivery review)
- Can serve as additional source of TIDs for study recruiting





# Looking Forward to 2025

- Expanded data integration (CGM, lab, claims, EMR, other devices)
- More TID "screening" activities (e.g., awareness building)
- Expanded market research / marketing services
- Expanded study recruiting support (more study pages, digital screeners)
- Building T2D EMR data set
- Stronger collaboration with other diabetes-focused non-profits



### **TID Exchange Partners: Non-Industry**

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TIDEPOOL

### **TID Exchange Partners: Industry**



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