# **Type 1 Diabetes: It's not just for juveniles**

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### Disclosures

Full time staff member, JDRF International (Non Profit) Founder and Board Chair, Diabetes Toolkit (A Florida-based 501c3 Corporation) Any unlabeled/unapproved uses of drugs or products referenced will be disclosed

## Learning Objectives

- Describe T1D early detection and the benefits of screening for autoantibodies
- Discuss clinical trials aimed at the delay and prevention of type 1 diabetes
- List process for monitoring individuals in early stage T1D



O1





Breakthrough T1D™ Formerfy JDRF

What do these advances have in common? Clinical Trials!

#### A New Paradigm in Type 1 Diabetes Care 3. Prevention or Delay of Type 2 Removing just two **Diabetes** and Associated simple words from Comorbidities: Standards of the title of this Care in Diabetes-2023 updated clinical guideline signifies Diabetes Care 2023;46(Suppl. 1):S41-S48 | https://doi.org/10.2337/dc23-S003 momentous 3. Prevention or Delay of progress. Diabetes and Associated For the first time in Comorbidities: Standards of Care history, we can in Diabetes-2024 delay the onset of Diabetes Care 2024;47(Suppl. 1):S43-S51 | https://doi.org/10.2337/dc24-S003 type 1 diabetes.

Breakthrough T1D<sup>TM</sup> Formerly JDRF "3.14 Teplizumab-mzwv infusion to delay the onset of symptomatic type 1 diabetes should be considered in selected individuals aged  $\geq 8$  years with stage 2 type 1 diabetes. Management should be in a specialized setting with appropriately trained personnel. B"

# There has been an associated increase in clinical complexity



# **T1D Screening and Early Detection**



- ALLE

### The Rising Global Incidence of Type 1 Diabetes



### Family history is not typical in Type 1 Diabetes

## Approximately 85% of people have no family history of type 1 diabetes at diagnosis.



McQueen et al. Diabetes Care. 2020;43(7):1496-1503; Besser et al. BMJ. 2021.



### What have we learned?

Breakthrough T1D

- PAST: Benefits of screening unclear Unable to predict which individuals would progress to insulin dependent T1D
  - No approved therapy to delay onset
    - Ability to predict individuals likely to progress to stage 3 (insulin requiring)
- Staging criteria developed (Stages 1, 2 and 3) **TODAY** •
  - Benefits of screening well describe
    - Prevention of DKA at Diagnosis, Time to plan and prepare
  - First FDA approved therapy to delay disease onset

Multiple clinical trials underway to delay and prevent T1D

# Family History Is a Strong Predictor of T1D Risk for First Degree Family Members is up to 15 times higher









No Diabetes No islet autoantibodies

Stage 1 Two or more persistent autoantibodies and normoglycemia

Stage 2 Two or more autoantibodies and dysglycemia

Stage 3

**Progression to a Stage 3 Type 1 Diabetes Diagnosis:** 

~70%

**10 YEARS** 



**15 YEARS** 

Stage 4

Diagnosed type 1 diabetes "It is clear from prospective studies that the persistent presence of two or more islet autoantibodies is a nearcertain predictor of clinical diabetes" Established Type 1 Diabetes

Breakthrough T1D™ Formerly JDR

American Diabetes Association Professional Practice Committee, 2, Diagnosis and Classification of Diabetes; Standards of Care in Diabetes-2024. Diabetes Care. 2024 Jan 1;47(Suppl 1):S20-S42. doi: 10.2337/dc24-S002. PMID: 38078589; PMCID: PMC10725812., 4, American Diabetes Association, Diabetes Care,

### The Benefits of Screening and Early Detection of T1D

- Reduce risk for diabetic ketoacidosis (DKA) at diagnosis
- Identify people who may benefit from early-intervention clinical trials
- Give individuals and families time to prepare
- Provide option to intervene early with FDAapproved therapy to delay a clinical diagnosis of T1D and the need for insulin



Benefit 1: Screening and Monitoring Reduce V DKA at Diagnosis		
Study	Setting	DKA (Hospitalization) Rate
Autoimputity Screening for ISds - flor A SHAME TEST TO DETECT Type 1 Diabetes (TTD) + Celiac	General Population (Colorado, U.S.)	3%
Frida 🚀	General Population (Bavaria, Germany)	Less than 3%
20 <sup>th</sup> Inniversity ALSY	Genetic Risk+AAb Screening (Relatives) (Colorado, U.S.)	3%
TEDDY	Genetic Risk+Aab Screening (Relatives and General Population) (Sweden, Finland, Germany, U.S.)	6% (1%, 8%)
Breakthrough T1D <sup>™</sup> <sup>Formerty JDRF</sup>	Rewers M, et al. Presented at: European Association for the Study of Diabetes 2019 Annual 2020;323(4):339-351. Barker JM, et al. <i>Diabetes Care</i> . 2004;27(6):1399-1404. 4. Larssor 2352. Jacobsen et al., Diabetes Care, 2022;45(3):624-633. Note: Hospitalization rate, whic patients, was reported rather than DKA in DAISY	Meeting; Poster 279. Ziegler AG, et al. <i>JAMA</i> . HE, et al. <i>Diabetes Care</i> . 2011;34(11):2347- ch was mainly driven by DKA in the control

2020;323(4):339-351. Barker JM, et al. Diabetes Care. 2004;27(6):1399-1404. 4. Larsson HE, et al. Diabetes Care. 2011;34(11):234 2352. Jacobsen et al., Diabetes Care, 2022;45(3):624-633. Note: Hospitalization rate, which was mainly driven by DKA in the control patients, was reported rather than DKA in DAISY

### **Benefit 2: Consider an FDA Approved Therapy to Delay the Onset of Stage 3 T1D**



#### An Anti-CD3 Antibody, Teplizumab, in Relatives at Risk for Type 1 Diabetes

Kevan C. Herold, M.D., Brian N. Bundy, Ph.D., S. Alice Long, Ph.D., Jeffrey A. Bluestone, Ph.D.,
Linda A. DiMeglio, M.D., Matthew J. Dufort, Ph.D., Stephen E. Gitelman, M.D., Peter A. Gottlieb, M.D.,
Jeffrey P. Krischer, Ph.D., Peter S. Linsley, Ph.D., Jennifer B. Marks, M.D., Wayne Moore, M.D., Ph.D.,
Antoinette Moran, M.D., Henry Rodriguez, M.D., William E. Russell, M.D., Desmond Schatz, M.D.,
Jay S. Skyler, M.D., Eva Tsalikian, M.D., Diane K. Wherrett, M.D., Anette-Gabriele Ziegler, M.D.,
and Carla J. Greenbaum, M.D., for the Type 1 Diabetes TrialNet Study Group\*

- Individuals 8 years and older
- Stage 2 type 1 diabetes

You must identify candidates before Stage 3 Type 1 Diabetes



American Diabetes Association Professional Practice Committee. 2. Diagnosis and Classification of Diabetes: Standards of Care in Diabetes-2024. Diabetes Care. 2024 Jan 1;47(Suppl 1):S20-S42. doi: 10.2337/dc24-S002. PMID: 38078589; PMCID: PMC10725812. American Diabetes Association Professional Practice Committee. 3. Prevention or Delay of Diabetes and Associated Comorbidities: Standards of Care in Diabetes-2024. Diabetes Care. 2024 Jan 1;47(Suppl 1):S43-S51. doi: 10.2337/dc24-S003. PMID: 38078581; PMCID: PMC10725807.



### Patient Selection Per FDA-approved Prescribing Information

- Adult patients and pediatric patients 8 years of age and older who have a diagnosis of stage 2 type 1 diabetes
- At least two positive pancreatic islet cell autoantibodies
- Dysglycemia without overt hyperglycemia using an oral glucose tolerance tests (if an oral glucose tolerance tests is not available, an alternative method for diagnosing dysglycemia without overt hyperglycemia may be appropriate)
- Ensure the clinical history of the patients does not suggest type 2 diabetes



### Benefit 3: Consider Participating in a Stage 2 or 3 **Clinical** Trial

#### PETITE-T1D

**Tepluzimab in Pediatrics** 

- 1-7 Years of Age
- Stage 2 T1D
- 14 Day Infusion

#### STOP-T1D

**TrialNet ATG Prevention Study** - 12-35 Years of Age

- High-Risk Stage 2 T1D
- 2-day infusion

#### www.breakthrought1d.org/clinicaltrials/

#### **JAKPOT T1D**

TrialNet JAK Inhibitors Study - 12-35 Years of Age - New Onset T1D (3 months) - Oral Pill

#### GLADIATOR

Ladarixin Study - 14-45 Years of Age - New Onset T1D (6 months)

#### DESIGNATE

**Siplizumab Study** 

- 18-45 Years of Age
- New Onset T1D (18 months)
- Weekly Injection

**Rituximab/Abatacept Study** 

- 8-45 Years of Age
- New Onset T1D (3 months)

Breakthrough T1D

#### - Oral Pill

T1D RELAY

- Oral Pill

#### **DIAGNODE-3**

**DIAMYD Study** - 12-29 Years of Age - New Onset T1D (6 months) - 3 Lymph Node Injections

### Where can I find support?

Ask the Experts is a resource for individuals, families and healthcare providers to guide screening and monitoring.



We are a passionate and experienced team of physicians, scientists and clinical research managers at the <u>Barbara Davis</u> <u>Center for Diabetes</u> and <u>Colorado Center for Celiac Disease</u> along with a national network of clinical and research partners.

Learn about our TEAM 〉



THE LEONA M. AND HARRY B. HELMSLEY CHARITABLE TRUST

https://www.askhealth.org/experts

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**INFORMATION ABOUT** 

CELIAC

Contact Us

# **Call to Action: Share Screening Pathways**



First degree relative ages 2 - 45 years Second degree relatives ages 2 to 20 years

Visit a research center Order a kit in the mail



Any child ages 1-17 years in the United States (also screen for celiac disease)

Order a kit in the mail

Anyone (however, insurance more likely to cover family members)

Blood collected at your doctor's office or at a lab



www.breakthrought1d.org/early-detection/



#### Which labs will be ordered by my doctor?

Insulin Antibody (IAA) GAD autoantibody IA2 autoantibody Zinc Transporter 8 Autoantibody (ZNT8) 21

May 2024



#### Early Detection of Type 1 Diabetes (T1D)

Type 1 diabetes has three stages, and through autoantibody screening (a simple blood test) it can be detected before an individual requires insulin. Early detection has many proven benefits, including a reduced risk of diabetic ketoacidosis (DKA) at diagnosis, providing time to plan and prepare, and opening doors to research opportunities or available treatments.<sup>1,2</sup>

#### **Screening Options for Patients**

Option 1: Screen Through a Research Study	Option 2: Screen Through Your Doctor's Office	
TriatNet • For people 2 to 45 years old who have a parent, brother/sister, or child with T1D, or • For people 2 to 20 years old who have an aunt/uncle, cousin, grandparent, nicee/nephew, or half-brother/sister with T1D • Lab or at-home tests available	Your doctor (or your child's doctor) can order labs to detect type 1 diabetes autoantibodies and the cost may be covered by your insurance. Consider contacting your insurance company regarding coverage prior to testing. <b>Positive Result?</b> • Confirmatory testing must be performed, either through TrialNet (free for ages 2-45 years) or your doctor's office • Ask the Experts can provide individualized support	
ASK • For all children ages 1-17 • No family history of type 1 diabetes is required • At-home tests available • Also screens for Celiac Disease	for you in partnership with your doctor (visit www.asktheexperts.org or scan QR code)	

#### Information for Healthcare Providers

Clinical guidelines support autoantibody screening for early detection of type 1 diabetes. Confirmatory testing is indicated for individuals with positive results.1



#### Consider additional testing in

· Order confirmatory testing for persistent autoantibody status future if at risk for developing T1D. · Consider referral to TrialNet for free confirmatory testing and possible referral to research studies Additional testing: HbA1c, random blood glucose Provide patient education including T1D symptoms



TrialNet

With your support, we are creating a movement to improve and change life with T1D, advancing breakthroughs on the way to cures. To find out more about resources and support, visit BreakthroughT1D.org/early-detection/.

. If multiple autoantibodies present or dysglycemia, refer to Endocrinology



#### **Frequently Asked Questions**

#### What is type 1 diabetes?

Type 1 diabetes is an autoimmune disease in which insulin-producing beta cells in the pancreas are mistakenly destroyed by the body's immune system. It occurs in children and adults of all ages, its causes are not fully known, and there is currently no cure. People with T1D are dependent on injected or pumped insulin to regulate blood sugar. Type 1 diabetes can now be detected in its early stages, before glucose is elevated and insulin is required.

#### What is type 1 diabetes risk screening?

Type 1 diabetes develops in stages over time. A blood test can identify people in early stage type 1 diabetes by identifying proteins in the blood called autoantibodies. These autoantibodies signal that the body's immune system is attacking the insulin-producing cells in the pancreas. If a person has two or more autoantibodies, they have a high likelihood for progression to stage 3 type 1 diabetes.12

#### Stages of Type 1 Diabetes

STAGE 1	STAGE 2	STAGE 3
2 or more autoantibodies	2 or more autoantibodies	Autoantibodies present
Blood glucose normal	Blood glucose abnormal (dysglycemia)	Blood glucose elevated (hyperglycemia)
<b>No symptoms</b>	No symptoms	Usually symptomatic

Who should screen for T1D?

Individuals who have a first-degree relative with type 1 diabetes are at

an increased risk (up to 15x) for developing the condition. However, 85%

percent of T1D diagnoses occur in people with no known family history,

which is why Breakthrough T1D has a long-term goal of global

universal screening. Clinical guidelines support screening for

#### Why screen for type 1 diabetes?

Screening for type 1 diabetes has shown the potential to: Reduce the risk of diabetic ketoacidosis (DKA) at diagnosis of stage 3

- type 1 diabetes.
- Introduce autoantibody-positive individuals to research or clinical trials aimed at delaying/preventing the onset of stage 3 T1D
- type 1 diabetes autoantibodies<sup>1</sup>. Everyone should know the signs and symptoms of T1D-Early detection and awareness are key! Refer autoantibody positive individuals to specialists for follow up and consideration of FDA-approved therapies to delay onset of stage 3 T1D
- Give families time to plan and prepare

What are the signs and symptoms of T1D?





# New ICD 10 Diagnosis Codes for Early Stage T1D

CMS released its Medicare hospital rule to include CDC's new ICD-10 diagnosis codes to capture early-stage, presymptomatic type 1 diabetes.

These ICD-10 diagnosis codes will become effective October 1, 2024 in the US:

- E10.A0 Type 1 diabetes mellitus, presymptomatic, unspecified
- E10.A1 Type 1 diabetes mellitus, presymptomatic, Stage 1
- E10.A2 Type 1 diabetes mellitus, presymptomatic, Stage 2

They can be found at : <u>FY 2025 IPPS Proposed Rule Home Page | CMS</u> - they are in a zip file under "Table 6A"



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### Audience for the Guidance Spans Care Continuum



## Collaboration with Primary Care

Primary care HCPs should understand stages of T1D, methods of and suggested frequency for metabolic monitoring [E]

Some primary care HCPs with a specific interest can serve as a local referral sources [E]

The primary care provider, specialist provider, and the person who is Ab+ should determine who will have primary responsibility and what degree of collaboration is needed [E]

# This may shift over time for the individual with Ab

Medical records must reflect the Ab status and the plan for monitoring and for urgent evaluation if needed [E]







**O1** 

## Single Ab positive

### Children

Educate on symptoms of T1D, DKA

Children  $\leq$  3 y monitor Ab status six monthly for 3 yrs then annually for 3 yrs, then stop [B]

Children >3 y monitor Ab status, annually x 3 years, then stop [C]

Perform metabolic monitoring (random BG and HbA1c) with Ab monitoring for 2 years after first positive test [B]

### Adults

Consider annual metabolic monitoring if additional risk factors [E]:

First degree relative with T1D or elevated T1D genetic risk

Dysglycemia

History of stress hyperglycemia

Otherwise: perform q3 year repeat screening [E]





**O1** 

### Stage 1 Type 1 Diabetes

### Children

Educate on need for monitoring, symptoms of DKA; provide written instructions, give SMBG meters/strips [E]

Check glucose with intercurrent illness [A]

If recent Ab+ can do SBMG q2 weeks and then q 1-3 months [E]

Repeated HbA1c with random BG [E]:

Children  $\leq$  3 y HbA1c every 3 months

Children 3-9 y every 6 months

Children >9 y at least every 12 months

Can consider using 10-14 d CGM rather than A1c [E]

Use OGTT to diagnose stage 2 or stage 3 diabetes [A], or a 2-h glucose after a carbohydrate rich meal [E]

### Adults

Provide SMBG meters/strips to check glucose with illness or symptoms [E]

Repeat HbA1c every 12 months as part of primary care [E]:

Modify frequency based on individual risk assessment based on age, number/type of Ab, glycemic metrics

If A1c changes  $\geq 10\%$  perform OGTT to assess T1D stage

If normoglycemic x 5 years can monitor q 2 years

### Stage 2 Type 1 Diabetes:

**Referral to endocrinologist [E]** 

## Children

Educate on need for monitoring, DKA; provide written instructions [E]

Give SMBG meters/strips [E]

Monitor metabolic status every 3 months [E]

Can consider using 10-14 d CGM rather than A1c [E]

### Adults

Monitor metabolic status every 6 months [E]

Use A1c plus one of the following: blinded CGM, higher frequency SMBG (biweekly fasting or 2h post prandial) or OGTT

Longitudinal increase HbA1c  $\geq 10\% \rightarrow$  disease progression, perform OGTT to stage

Consider c-peptide assessment when T1D vs T2D diagnosis unclear [B]



### Monitoring in Adults: CAVEATS

- Misdiagnosis of T1D in adults is common, more likely with older age
- Can lead to DKA due to prescribing wrong therapy
- Many primary care providers lack awareness

### No single clinical feature confirms T1D

- Not Age
- Not BMI
- Not DKA

#### Slide adapted from one created by R. Schulman-Rosenbaum

-Gregory GA et al. International Diabetes Federation Diabetes Atlas Type 1 Diabetes in Adults. Lancet Diabetes Endocrinol 2022.

-Holt RIG et al. The management of type 1 diabetes in adults. A consensus report by the ADA and EASD. Diabetologia, 2021.

#### T1D mistaken for:

- Type 2 Diabetes
- Ketosis prone T2D
- MODY
- Type 3C Diabetes
- Pancreatic cancer
- Checkpoint inhibitor associated DM

40% of persons developing T1D after age 30 are initially treated as T2D



### **Reference: ADA Standards of Care 2024**

**2.6** Screening for presymptomatic type 1 diabetes may be done by detection of autoantibodies to insulin, glutamic acid decarboxylase (GAD), islet antigen 2 (IA-2), or zinc transporter 8 (ZnT8). **B** 

**2.7** Having multiple confirmed islet autoantibodies is a risk factor for clinical diabetes. Testing for dysglycemia may be used to further forecast near-term risk. When multiple islet autoantibodies are identified, referral to a specialized center for further evaluation and/or consideration of a clinical trial or approved therapy to potentially delay development of clinical diabetes should be considered. **B** 

**2.8** Standardized islet autoantibody tests are recommended for classification of diabetes in adults who have phenotypic risk factors that overlap with those for type 1 diabetes (e.g., younger age at diagnosis, unintentional weight loss, ketoacidosis, or short time to insulin treatment). **E** 

**3.2** In people with preclinical type 1 diabetes, monitor for disease progression using A1C approximately every 6 months and 75-g oral glucose tolerance test (i.e., fasting and 2-h plasma glucose) annually; modify frequency of monitoring based on individual risk assessment based on age, number and type of autoantibodies, and glycemic metrics. **E** 

**3.15** Teplizumab-mzwv infusion to delay the onset of symptomatic type 1 diabetes (stage 3) should be considered in selected individuals aged  $\geq 8$  years with stage 2 type 1 diabetes. Management should be in a specialized setting with appropriately trained personnel. **B** 



American Diabetes Association Professional Practice Committee. 2. Diagnosis and Classification of Diabetes: Standards of Care in Diabetes-2024. Diabetes
 Care. 2024 Jan 1;47(Suppl 1):S20-S42. doi: 10.2337/dc24-S002. PMID: 38078589; PMCID: PMC10725812. American Diabetes Association Professional
 Practice Committee. 3. Prevention or Delay of Diabetes and Associated Comorbidities: Standards of Care in Diabetes-2024. Diabetes Care. 2024 Jan (© 2024 BreakthroughT1D. All rights reserved. 36
 1;47(Suppl 1):S43-S51. doi: 10.2337/dc24-S003. PMID: 38078581; PMCID: PMC10725807.

# Type 1 Diabetes Clinical Trials: Prevention Portfolio Focus



### Why a Breakthrough Priority?



There are more T1D therapies and devices in clinical trials than ever before.

### **The Challenge:**

Lack of clinical trial participants: Leads to longer trials leading to

delayed results Requires more fundraising dollars to complete trials

### **Why Clinical Trial Education Matters**

Between **2-16%** 

of clinical trial participants are racial and ethnic minorities 97%

of participants in the TN10 Trial identified as Non Hispanic White

Original Research Manuscript | <u>Published: 06 January 2020</u> US Physician and Nurse Proclivity to Refer Their Patients Into Clinical Trials

Kenneth A. Getz MBA 🖂

 Therapeutic Innovation & Regulatory Science
 54, 404–410 (2020)
 Cite this article

 50 Accesses
 2 Citations
 Metrics

Approximately

01

of people are referred to research

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### How do we measure success T1D Prevention Clinical Trials? Cpeptide

In beta cells, the process for making insulin starts with the precursor **proinsulin**, a protein composed of 3 different "chains"

Proinsulin breaks down into:

- **Insulin** (**A** and **B** chains)
- **C-peptide** (**C** chain 23 amino acid chain)





# Clinical trials aimed at immune tolerance (preservation of c-peptide)



# **BANDIT Clinical Trial**

- Baricitinib is a JAK inhibitor
- Currently used in rheumatoid arthritis, autoimmune hair loss (called alopecia)
- In 60 newly diagnosed children and young adults, it preserved the body's ability to produce insulin
- It is a pill





### **Currently Recruiting Clinical Trials Stage 2 and 3**

#### PETITE-T1D **Tepluzimab in Pediatrics** - 1-7 Years of Age

- Stage 2 T1D
- 14 Day Infusion

#### STOP-T1D

**TrialNet ATG Prevention Study** - 12-35 Years of Age

- High-Risk Stage 2 T1D
- 2-day infusion

www.breakthrought1d.org/clinicaltrials/

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- 18-45 Years of Age
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- Weekly Injection

#### T1D RELAY

**Rituximab/Abatacept Study** 

- 8-45 Years of Age
- New Onset T1D (3 months)

Breakthrough T1D

#### - Oral Pill

#### **DIAGNODE-3**

**DIAMYD Study** - 12-29 Years of Age - New Onset T1D (6 months) - 3 Lymph Node Injections O1

### **Cell Therapy for Type 1 Diabetes**



### VX 880 Study Phase 1 / 2 **SAFETY** Study – Early Results

#### Participant 1 Study day Day 0 (baseline) Day 121-150 Day 241-270 Daily Insulin dose 34 units 2.6 units 0 units Time in Range 40.1% 81.4% 99.9% A1C 8.6% 6.7% 5.2% Baseline Day 121 - 150 Day 241 - 270 Study day

Glucose data generated by a continuous glucose monitor (CGM) worn by participant 1.

- Oral Pill

### **Currently Recruiting Clinical Trials**

	Established T1D Cell Therapy
wwwbreakthrought1d.org/ clinical-trials/ .	VERTEX - 880 Cell Therapy Study – Phase I Trial - 18-65 Years of Age - T1D > 5 Years - Cells Infused Via Hepatic Portal Vein
Established T1D Prevention COVALENT-112 Menin Inhibitor Study (Prevention) - 18-60 Years of Age - T1D < 3 Years	VERTEX - 264 Cell Therapy Study – Phase I Trial - 18-65 Years of Age - T1D > 5 Years - Devices Containing Cells Implanted

# **Call to Action**: Share the Benefits of Clinical Trial Participation



WWWbreakthrought1d.org/clinical-trials/ Breakthrough T1D<sup>™</sup>

### Contribute to science to help others in the future

Participation may lead to a more active role in your health

Researchers are often leaders in their discipline and experts in their field

More participation = more progress

# Enrolling in clinical trials

Clinical trials advance T1D treatments and care so people with T1D can live fuller, healthier lives.





# Thank you!

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