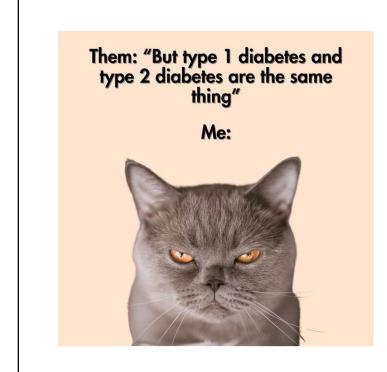


# Learning Objectives Understand the impact of T1D on physical, educational, and mental health in children and adolescents. Identify the barriers to support for students with T1D. Strategies to provide effective assessments and support for students with T1D within the school setting. Enhance collaboration among school staff to ensure comprehensive care for students with T1D.

### Knowledge Check: **Do you know Type 1 Diabetes?**True or Fase



3

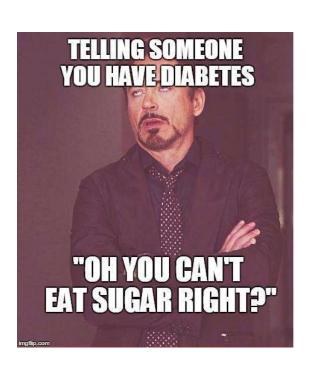


T or F
Type 1 and
Type 2
Diabetes are
the same
thing?

T or F
Eating "too much
sugar" will cause
Type 1 Diabetes?

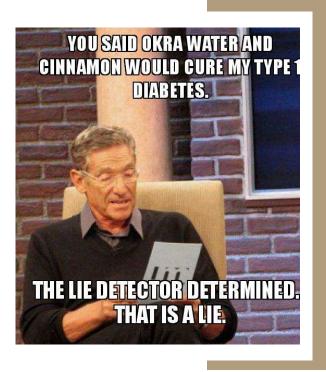


5



T or F
An Individual
with Type 1
Diabetes
cannot eat
sugar?

T or F
Diet, Exercise,
and Insulin are a
cure for Type 1
Diabetes?



7



T or F
Children can
grow out of
Type 1
Diabetes?

### what is type 1?

AUTO-IMMUNE DISEASE

PANCREAS STOPS PRODUCING INSULIN, A HORMONE NEEDED TO CONTROL GLUCOSE IN THE BLOOD STREAM

NOT CURRENTLY A CURE

NOT PREVENTABLE

NOT A LIFESTYLE DISEASE

FULL TIME BALANCING ACT

9

### WHAT IS

Type 1?

BODY DOESN'T

MUST INJECT INSULIN TO LIVE

AUTOIMMUNE
DISORDER. NOT
RELATED TO DIET
OR EXCERCISE

DIAGNOSED AT ANY AGE, BUT 50% ARE KIDS

### WHAT IS

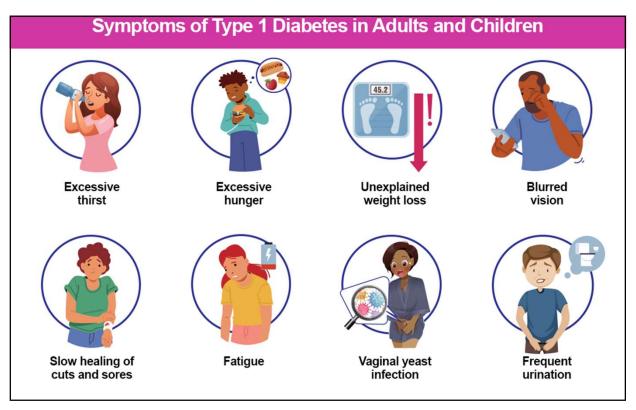
Type 2?

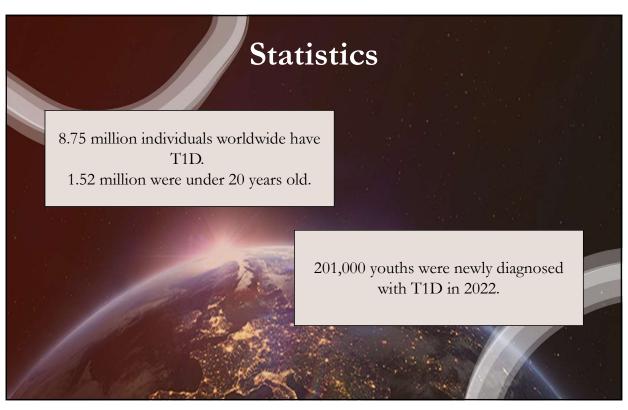
BODY CAN'T USE
INSULIN PROPERLY

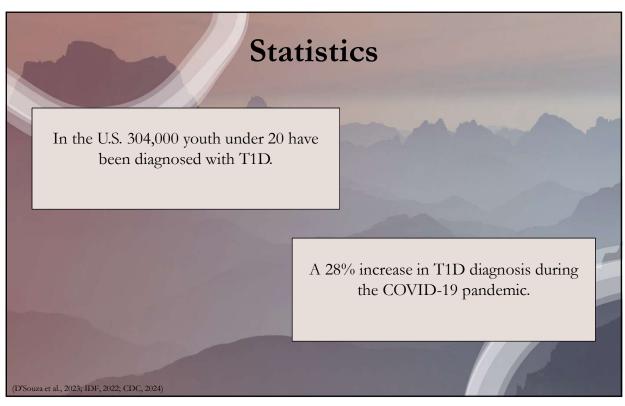
MANAGED THROUGH DIET, EXERCISE, ORAL MEDICATION AND SOMETIMES INSULIN

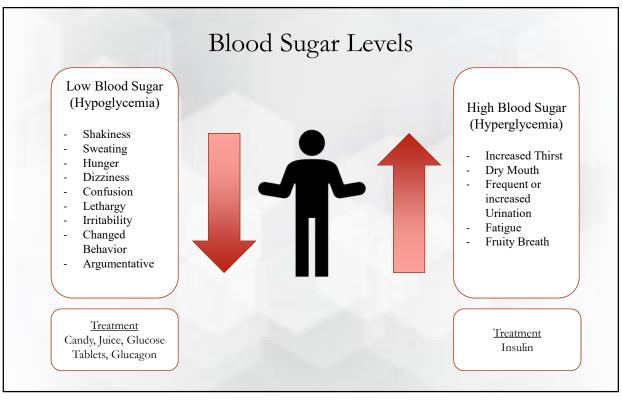
INFLUENCED BY DIET, EXERCISE AND GENETICS

DIAGNOSED AT ANY AGE

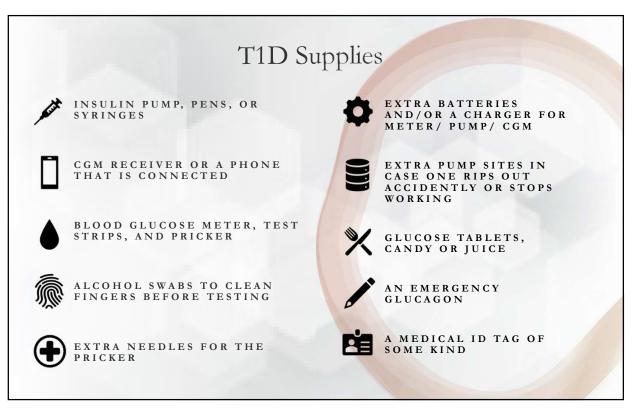






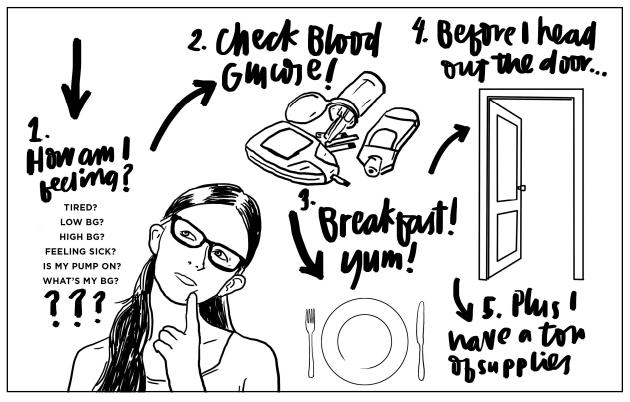




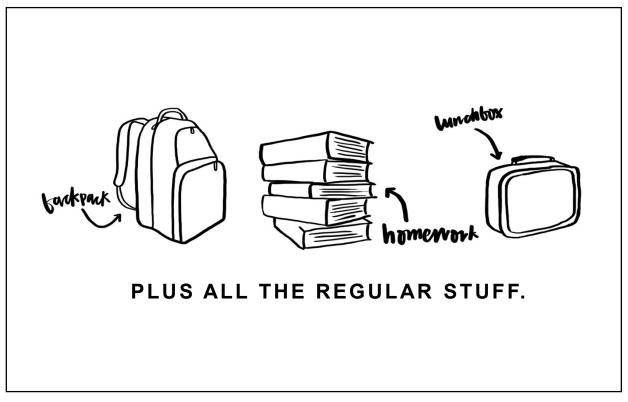


WELL, WHEN I GET UP IN THE MORNING, HERE IS WHAT I HAVE TO DO:

17







### DURING THE SCHOOL DAY I HAVE TO DO SOME EXTRA STUFF TOO, LIKE...

TESTING MY BG BEFORE WE TAKE A TEST. IF IT'S TOO HIGH OR LOW, MY BRAIN DOESN'T WORK AS WELL AND I CAN'T TAKE THE TEST UNTIL IT RETURNS TO NORMAL RANGE.

BEFORE WE HAVE LUNCH OR A SNACK, I HAVE TO TEST MY BG AND CALCULATE THE AMOUNT OF CARBS IN THE FOOD, THEN CALCULATE HOW MUCH INSULIN TO GIVE MYSELF.

I MIGHT NEED TO GO TO THE NURSES OFFICE FOR HELP TREATING A HIGH OR LOW BG, OR BECAUSE I DON'T FEEL GOOD.

BEFORE SPORTS OR EXTRA -CURRICULAR ACTIVITIES AFTER SCHOOL, I NEED TO TEST MY BG.

I MIGHT HAVE TO SIT OUT OF P.E. BECAUSE OF A LOW BG WHILE I HAVE SOME SUGAR.

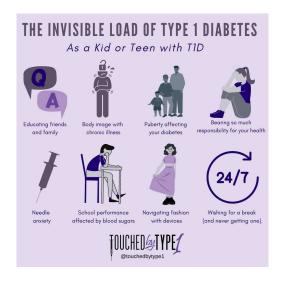
BEFORE GOING HOME, I NEED TO TEST MY BG.



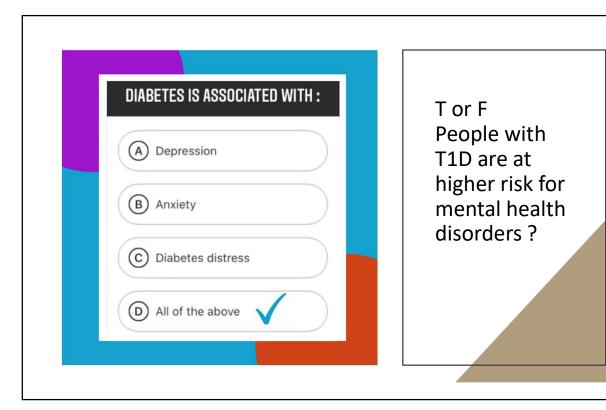


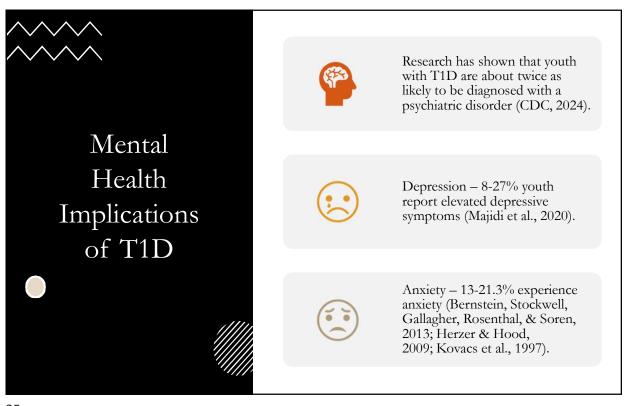
### WE LOOK FINE ON THE OUTSIDE,

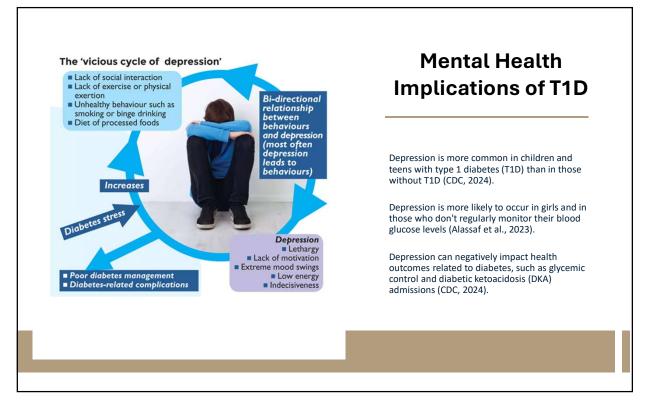
but on the inside our bodies and minds work just a bit differently.



23







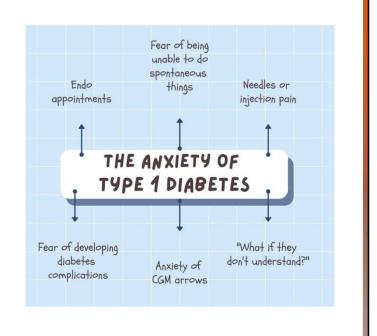
### Mental Health Implications of T1D

Anxiety symptoms are prevalent in youth with T1D.

Anxiety symptoms were associated with higher glycosylated hemoglobin (HbA1c) levels, poorer self-management and coping behaviors, depressive symptoms, fear of hypoglycemia, and lower blood glucose monitoring frequency.

Girls were at a higher risk of anxiety symptoms than boys.

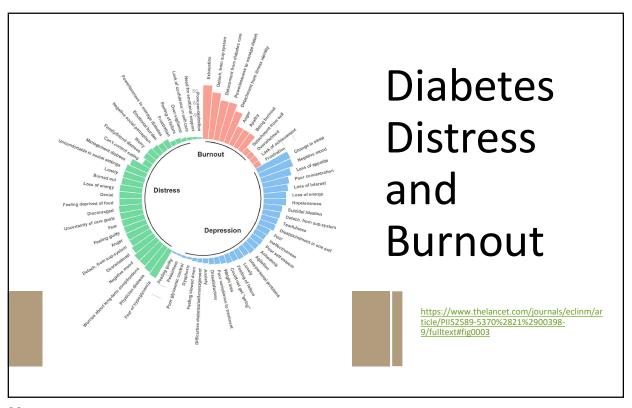
Rechenberg et al., 2017

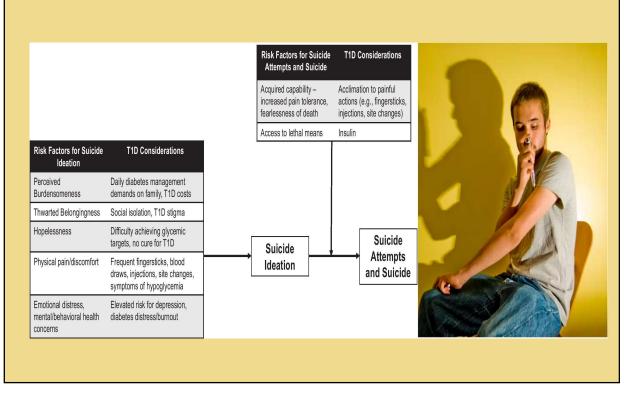


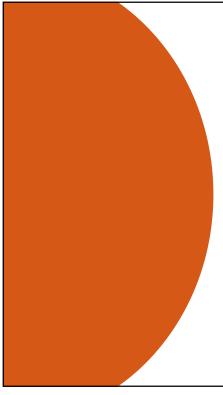
27

Other
 Psychiatric
 Associated
 with T1D

 Diabetes Burnout
 Diabetes Distress
 Feeding and Eating
 Disorders
 Schizophrenia and other
 psychotic disorders







Suicide is a leading cause of death among young people ages 20 to 24 in the United States, and the risk is even higher in individuals with type 1 diabetes. In fact, up to 7% of deaths in individuals with type 1 diabetes are a result of suicide. However, current screening tools for depression and suicide often miss individuals at risk of suicide and the risk among the type 1 diabetes patient population is greatly underestimated.

- Increased Risk of Suicidal Ideation:
  - Adolescents with T1D are 61% more likely to have suicidal thoughts (Fuller-Thomson & Sawyer, 2009).
  - T1D youth are 1.7 times more likely to attempt suicide (Butwicka et al., 2015).

31

### **Barriers to Mental Health Support**



### **Lack of Awareness and Training**

Many school psychologists (and other professionals) are not trained to recognize mental health issues linked to T1D.

Routine Diabetes appointments often do not address mental health.



### **Limited Access to Resources**

Mental health services for students with T1D are often underfunded or underutilized.

No standard referral pathway for people with diabetes who struggle with mental health



### Social Stigma

Fear of being treated differently can prevent students from seeking help.

### **Legal Protections Under Section 504 & IDEA 2004**

- Students with T1D qualify for accommodations under Section 504 because diabetes a chronic condition that can substantially limit major life activities such as eating, caring for oneself, and, at times, learning.
- IDEA 2004 provides further protections for those whose T1D has a greater impact on their educational performance.

Other health impairment. A student with other health impairment is one who has been determined to meet the criteria for other health impairment due to chronic or acute health problems such as **DIABETES** as stated in 34 CFR, §300.8(c)(9).

33

### School Psychologists' Responsibilities Related to Diabetes

1

Conduct assessments to identify needs.

2

Collaborate on creating Individualized Education Programs (IEPs) or 504 plans.

3

Advocate for appropriate accommodations (e.g., flexible class schedules, frequent breaks).

### Strategies for Supporting Students with T1D

### **Assessment**

- Include physical, educational, and mental health components.
- Implement mental health screenings for students with T1D.

### **Collaborative Care Plans**

- Involve school nurses, counselors, and parents in the care plan.
- Ensure open communication between outside medical professionals and school staff.

35

### **Strategies for Supporting Students with T1D**

### **Accommodations**

- Blood Glucose Monitoring including Access to Cell Phone and Wifi
- Access to Snacks and Water
- Bathroom Access
- Insulin Administration
- Homework Accommodations
- Emergency Preparedness
- Field Trips and Extracurricular Activities
- Transportation
- Physical Education Modification
- Testing Accommodations (STAAR, TELPAS, PSAT, SAT, ACT, etc.)
- Absence and Tardiness Flexibility

https://diabetes.org/advocacy/safe-at-school-state-laws/section-504-plan https://www.breakthrought1d.org/t1d-resources/school/ https://www.touchedbytyne1.org/resources

## How Type 1 Diabetes Affects Test Taking

### **Blood sugar fluctuations:**

Both high blood sugar (hyperglycemia) and low blood sugar (hypoglycemia) can negatively impact cognitive abilities like focus, memory, and decision making, which are crucial for test taking.

### **Stress-induced changes:**

The stress of exams can further exacerbate blood sugar fluctuations, making it even harder to maintain stable levels.

### **Physical symptoms:**

High blood sugar can cause symptoms like thirst, frequent urination, and fatigue, which can distract during a test. Low blood sugar can lead to shakiness, sweating, confusion, and difficulty thinking clearly.

### 37

### Reasonable adjustments

Schools are required to make reasonable adjustments for students with type 1 diabetes. These may include:

- Ensuring a student is informed of additional support available to them prior to an exam or assessment
- Allowing students to take drinks and snacks into an exam or assessment to use as necessary
- Allowing a student to use a mobile phone to monitor their glucose levels
- Ensuring students can take their insulin supplies into the exam or assessment for use as necessary, or wear their insulin pump in the examination room (pump should always be worn)
- Providing a student with additional time and rest breaks to treat a low or high glucose level

- Allowing students to check glucose levels before and during exam or assessment
- Allowing students to have unrestricted toilet access during an exam or assessment
- Consider changing assessments to another time if glucose levels are unstable
- Providing students with extra time to complete work if glucose levels are unstable
- Ensuring all exam supervisors are aware of the students' need to check blood glucose levels and that they may need to eat during the assessment

### STAAR/TELPAS

Accessibility Feature	Description	Allowed Examples	Not Allowed Example
Use of an Electronic Device to Monitor a Health Condition	A student's electronic device may be used to monitor a health condition. Test security must be maintained.	During a test administration, a student places her mobile phone on her desk to monitor her glucose levels through an app on the phone. Because the phone is on the student's desk, the test administrator is able to monitor phone use.	A student is allowed to keep his mobile phone in his backpack and take it out periodically to monitor his glucose levels through an app. Because the phone is not continuously accessible, the test administrator is not able to monitor phone use.

39

HB 699 requires school districts to excuse an absence and waive promotion requirements for students who are diagnosed with severe or life-threating illnesses or are undergoing related treatments.

Riley's Rule: HB 699

(May apply widely to students eligible under OHI/504)

A student's excused absences under Riley's Rule may not be considered in determining whether the student satisfies the requirement of attendance for at least 90 percent of the days class is offered in order to be awarded a final grade or credit for a class.

The changes under HB 699 began with the 2021-2022 school year.

https://tea.texas.gov/about-tea/government-relations-and-legal/government-relations/2021-briofing book odf

https://capitol.texas.gov/tlodocs/87R/billtext/html/HB00699E.htm

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