# JDRF typeone nationsummit





# ACCELERATING PROGRESS

Presented by: Brian Herrick and Alecia Wesner

November 19, 2016

# Brian



- Diagnosed February 18, 1992
- Involved with JDRF since 1999
- T1D treatments:
  - NPH insulin
  - R insulin
  - Compressed air injector (?)
  - Novolog
  - Humalog
  - Medtronic pumps since 2001
  - Medtronic sensor
  - Dexcom Sensor
- JDRF Rider
- JDRF Walker
- JDRF Advocate
- JDRF Staff



# Alecia



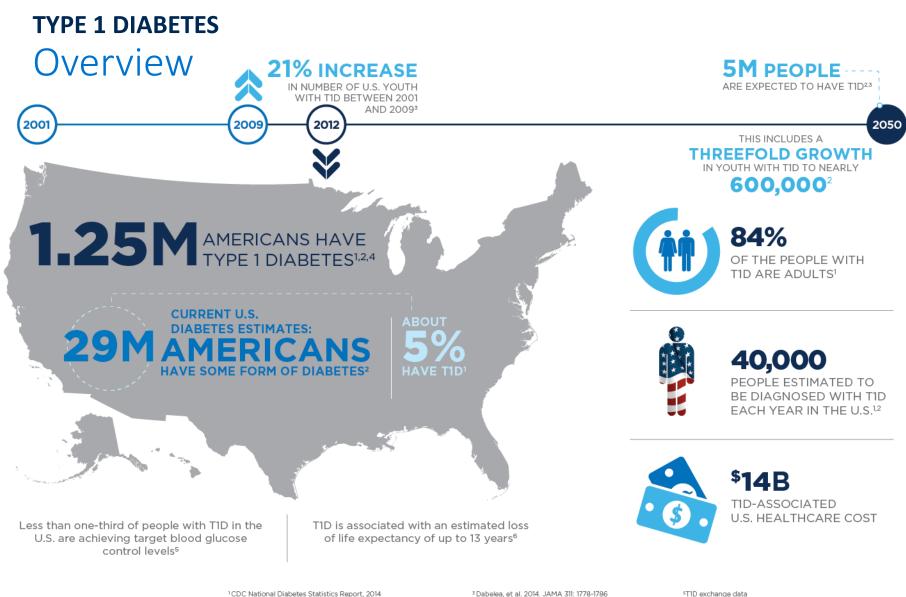
- Diagnosed June 19, 1979
- Involved with JDRF since 1979
- T1D treatments:
  - Bovine insulin
  - NPH insulin
  - R insulin
  - Novolog
  - Medtronic, Animas, Tandem user
  - Dexcom Sensor
- JDRF Rider
- JDRF Walker
- JDRF Advocate
- JDRF NYC Board Member
- Superhero





# typenone





3 Dabelea, et al. 2014. JAMA 311: 1778-1786

<sup>4</sup>JDRF Estimations

<sup>1</sup>CDC National Diabetes Statistics Report, 2014 <sup>2</sup> Impreatore, et al. 2012, Diab Care 35: 2515-2520

**J**DRF typeonen IMPROVING LIVES. CURING TYPE 1 DIABETES.

Accelerating Progress 4

6Jama 2015; 313(1):1-9)



# JDRF typenone

# Doing the Greatest Good, for the Largest Number of People, in the Shortest Period of Time









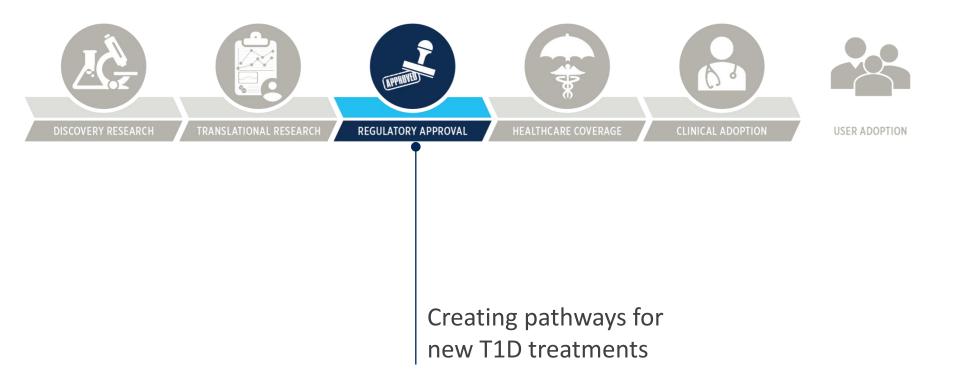
Identifying new approaches to cure, prevent and treat T1D and its complications





Moving scientific discoveries from the laboratory to the real world



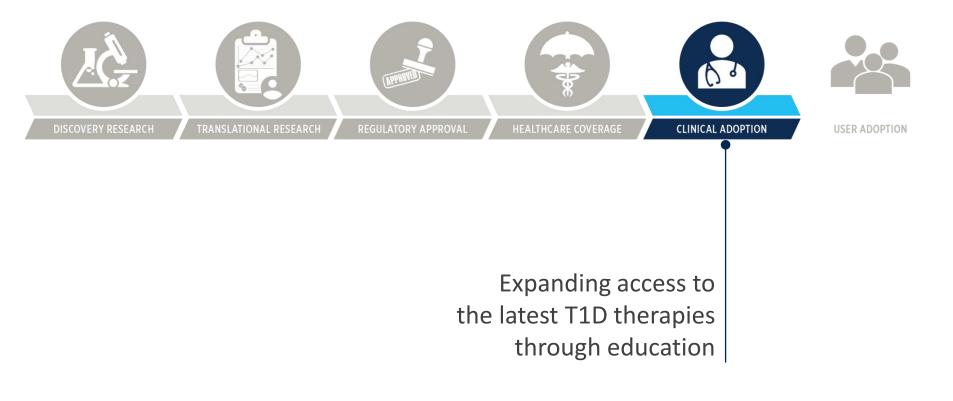




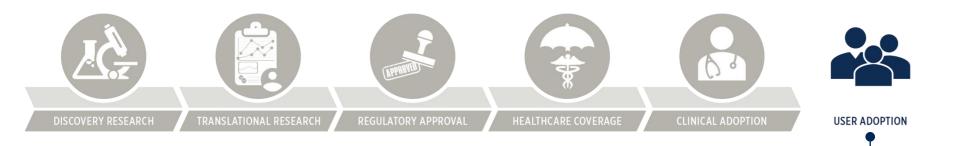


Ensuring treatments are affordable and accessible



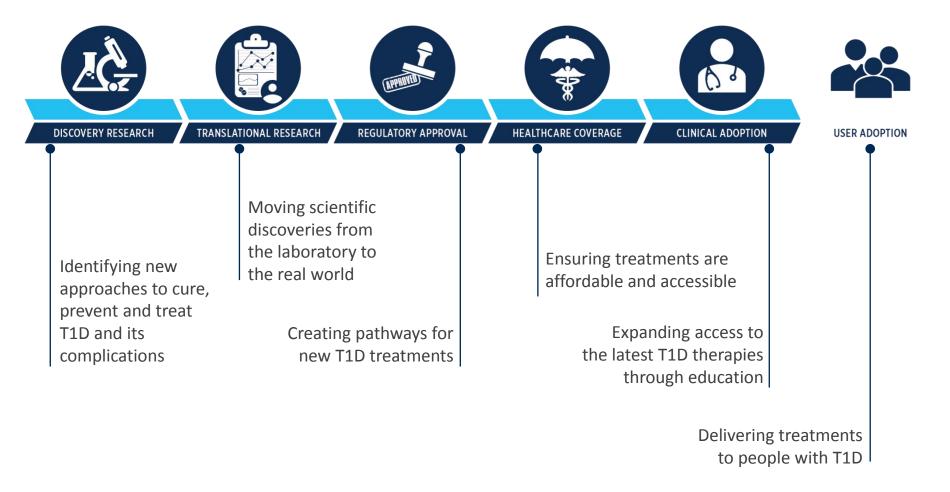






#### Delivering treatments to people with T1D









#### TO DELIVER LIFE-CHANGING BREAKTHROUGHS

CURE

Restoring Insulin Independence

PREVENT

Preventing Symptomatic T1D

**TREAT** Improving Glucose Control



#### THE PLAN Continuous Therapeutic Improvements





#### **YOUR SUPPORT** Raising Awareness. Raising Funds.





AN IN-SCHOOL PROGRAM GEARED TOWARD AWARENESS, EDUCATION AND FUNDRAISING FOR T1D RESEARCH





THE FUNDS RAISED BY JDRF ONE WALK<sup>®</sup> – OUR FLAGSHIP FUNDRAISING EVENT AND THE LARGEST T1D EVENT IN THE WORLD – HELP US TURN TYPE ONE INTO TYPE NONE.

#### JDRF RIDE NO TO CURE DIABETES

BIKE RIDERS REACH PERSONAL TRAINING GOALS AS THEY RAISE FUNDS FOR CRITICAL RESEARCH



#### TEAM JDRF TO CURE DIABETES

AN OPPORTUNITY TO TURN A FAVORITE SPORT, HOBBY OR LIFE EVENT INTO A JDRF FUNDRAISER



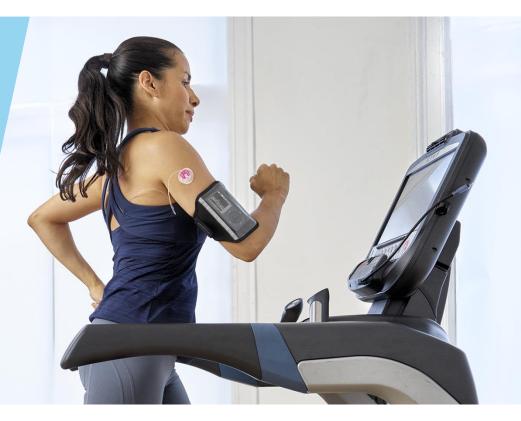






#### **Artificial Pancreas**

The burden is eased all day, and you sleep safely through the night







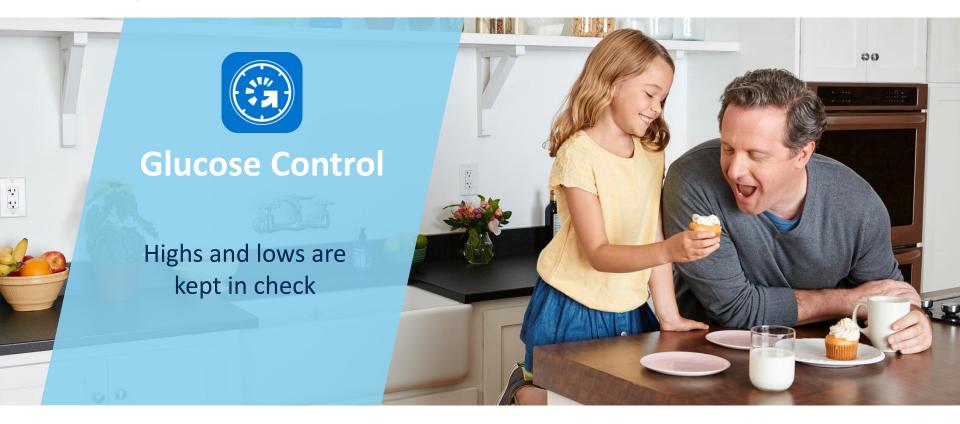












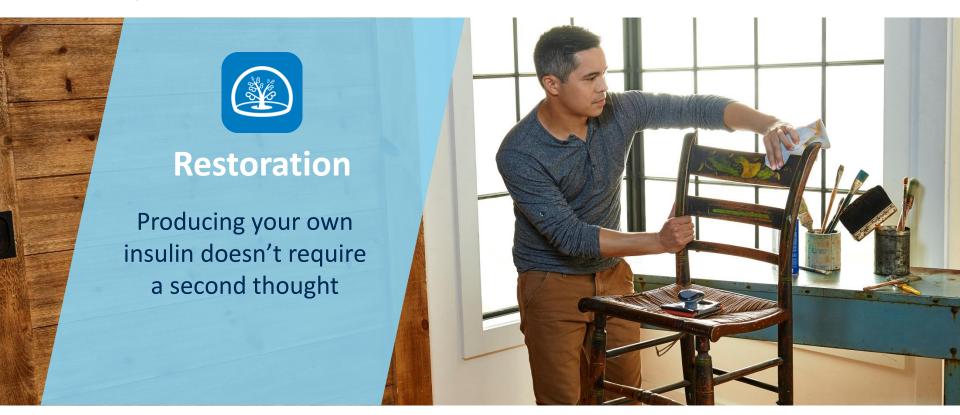






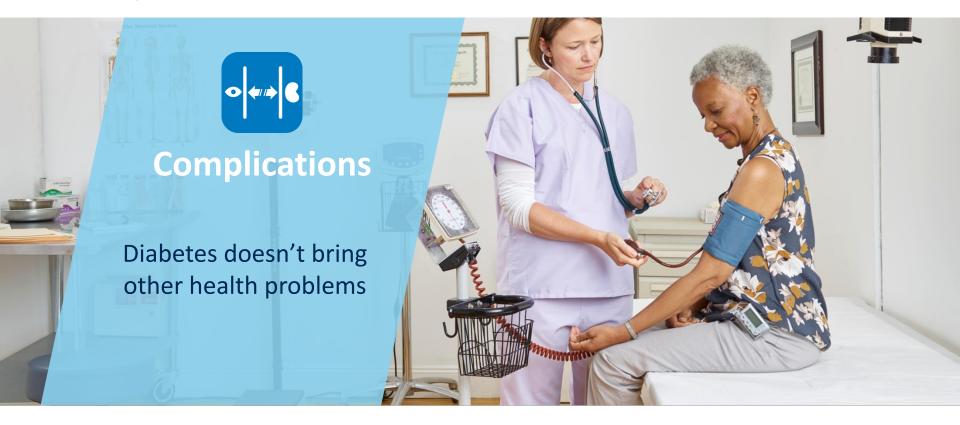
















# JDRF ROLE IN AP

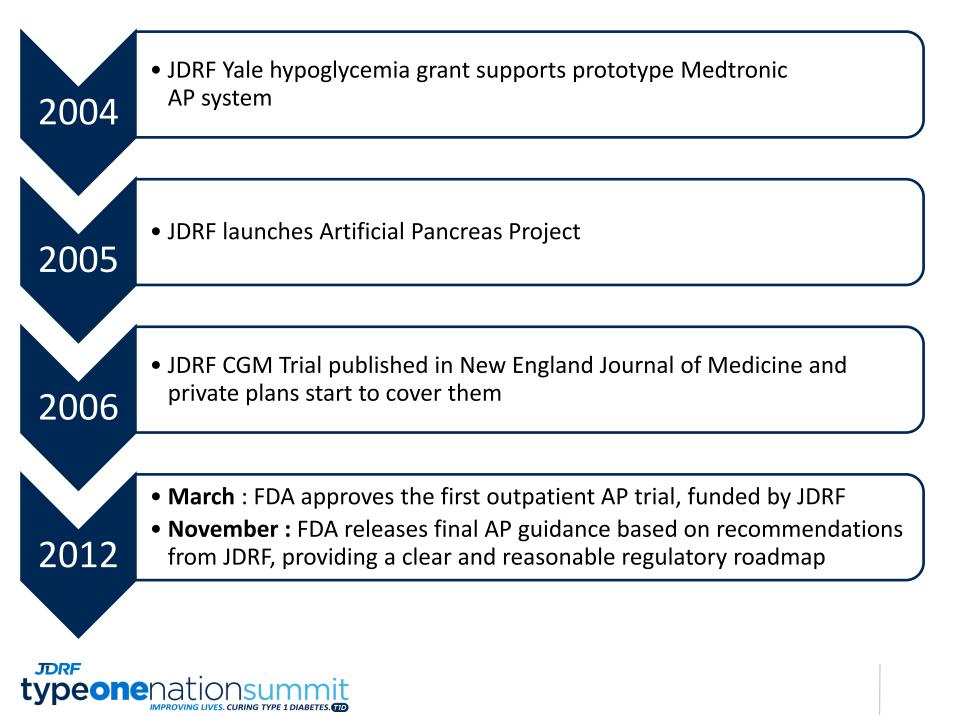


# What is an Artificial Pancreas?

- When a continuous glucose monitor (CGM) and insulin work together with the help of an algorithm to regulate the body's blood sugar.
- Like the body's pancreas, AP systems will react to rising blood-glucose levels by combining monitoring technology with insulin pumps to provide the right amount of insulin at the right time.







## WHAT DOES A CLINICAL TRIAL LOOK LIKE?



# **Clinical Trial Procedure**

- **1**. Eligibility screening
- 2. We're in! (high fives for everyone)
- 3. Training
- 4. Trial
- 5. Control Week
- 6. Return equipment











# The gear







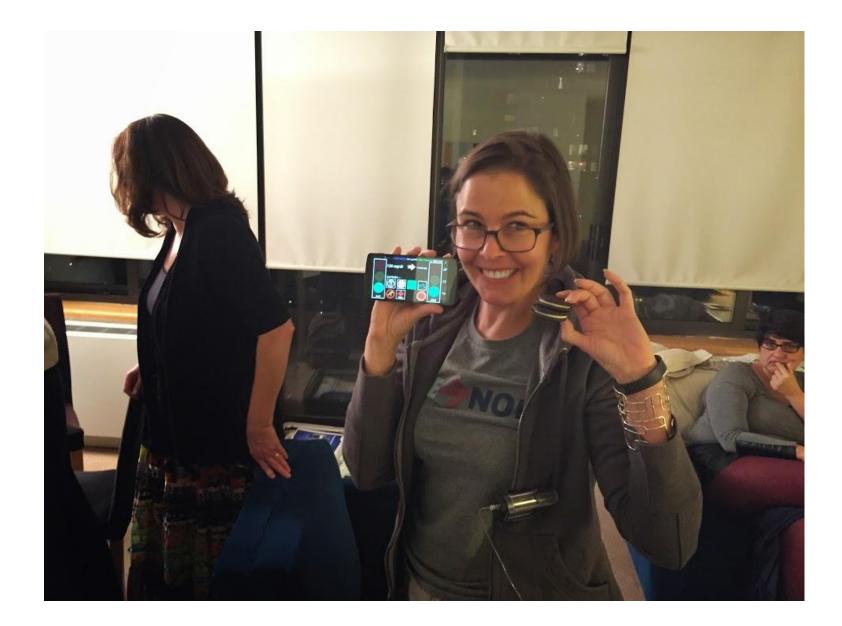




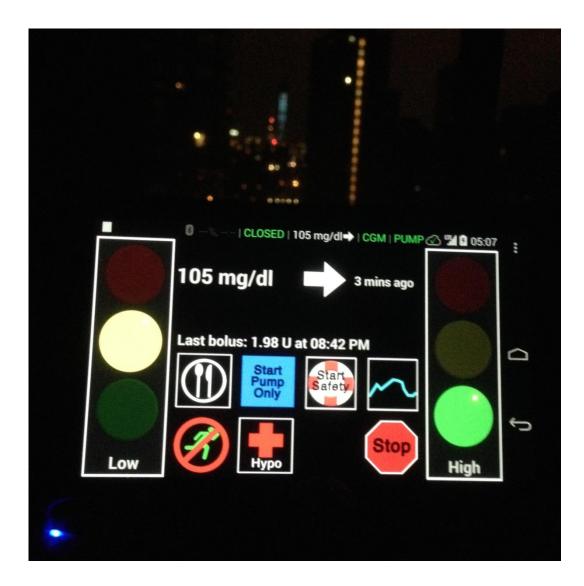












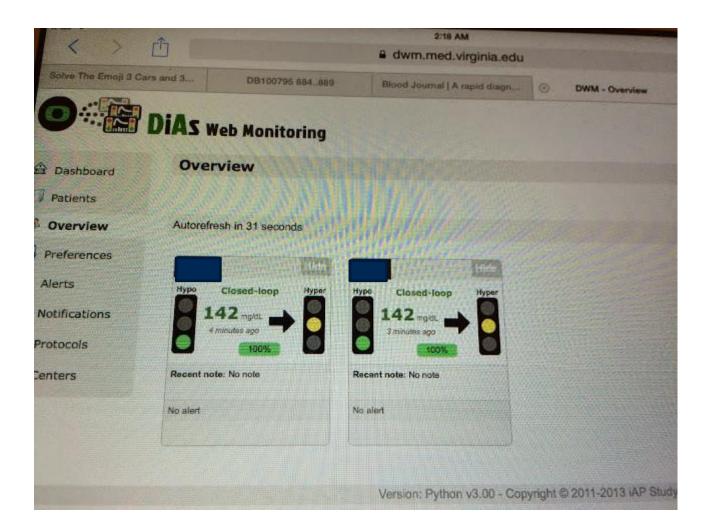














#### Progress







#### Don't just take my word for it

- "I think JDRF got us here a lot faster than we could have any other way."
  - Dr. Francine Kaufman, CMO, Medtronic Diabetes
- "JDRF deserves enormous credit for knocking down the biggest gating factor to automated insulin delivery all those years ago – FDA."
  - Kelly Close, Close Concerns



#### THIS IS HUGE DEAL. HERE'S WHY.



#### Alecia Wesner

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IMPROVING LIVES. CURING TYPE 1 DIABETES.

- Strengths
  - T1D Champion
  - Walker
  - Rider
  - Clinical trial participant
  - Staying alive
- Weaknesses
  - Nighttime lows
  - Questionable eater

#### Brian Herrick



- Strengths:
  - T1D jokes
  - Bleeding
- Weaknesses:
  - Processing sugar
  - Nighttime control
  - Waking up when my CGM goes off



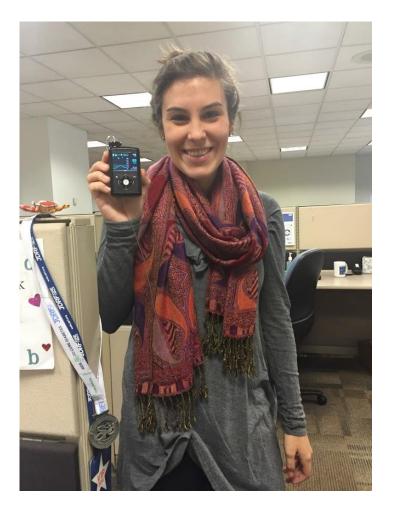
#### SLEEP PLEASE







#### Kady Helme



- Strengths:
  - T1D Champ
  - JDRF Employee
  - Data-provider
  - Perfect nighttime blood sugars while on the Medtronic 670g for months
- Weaknesses
  - Sharing the 670g



#### With AP, we are just beginning



Dexcom<sup>®</sup> One Step Ahead



A Medtronic





βeta βionics

Jtypezero



#### **CONTACT** Here's Where You Can Find Us

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# THANK YOU