

Georgia/
Florida

TEDDY Talk



Volume 7
Fall/Winter 2013

TEDDY Update: GA, FL & Worldwide!

The TEDDY Study's oldest children will be celebrating their ninth birthday this year. In Georgia/Florida, our youngest ones will be turning four in 2014, meaning most of the children are now on semi-annual visits.

Worldwide, **503** TEDDY children are currently positive for the diabetes autoantibodies against the pancreatic islets: the first sign that the immune system is attacking the body's insulin producing cells. Within our own Georgia/Florida site, **146** children have had a confirmed positive autoantibody test result for diabetes.

Worldwide, there have been **154** TEDDY children diagnosed with type 1 diabetes (T1D), and **298** children diagnosed with celiac disease. In Georgia/Florida, **13** children have been diagnosed with type 1 diabetes, and **21** have been diagnosed with celiac disease. The number of T1D cases have doubled this past year with seven diagnosed cases since our last newsletter.

Your continued participation and all the hard work you do moves us closer to an eventual cure or prevention for type 1 diabetes. Together we make an amazing team!

Drop-worthy Science!



Gainesville TEDDY kids H.T., Arwen, and Anastasia, with sibs Lakota and Kenny show us how to collect the saliva sample for cortisol levels.



"What is TEDDY?"

Jr. Scientists, Will & Emma, explain the study in a story & activity book given at the 6.5 year visit.



Benjamin at the Augusta site & Margeaux at the Atlanta site, receive a certificate and chocolate medal at the 7.5 year visit in celebration of reaching the half-way mark of the study!

Looking Ahead!

- ◆ Questionnaires for kids, starting about age 9
- ◆ Puberty assessment, children 8 and older
- ◆ More child involvement in completing the diet record.
- ◆ TEDDY Jr. Scientist book #2

What's an Accelerometer?

The TEDDY Study would like to measure kids' physical activity every year starting at age 5. To get this information, we will ask the kids to wear a device called an accelerometer. An accelerometer is a tool similar to a pedometer that records forward to back, side to side, and up and down movement. Research suggests that physical activity may affect insulin use enough to influence the development of type 1 diabetes. We will use the accelerometer data to test this hypothesis. We will charge the accelerometer, and it will turn on by itself. You will just need to make sure your child wears the belt and keep a simple log. Once you mail the accelerometer and log back to us, your child will receive a small "thank you" gift in the mail. If you have already finished a week of data collection, thank you! If not, there will be more chances. We will continue to collect this information from our TEDDY kids.



Caroline, at the Augusta site, wears her belt home!



Why Does TEDDY Want ...

What TEDDY asks	What TEDDY is looking for:
Diet records	Energy intake, proteins, vitamins, fatty acids, zinc, carotenoids, and selenium
Toenails	Selenium levels
Water	Zinc, nitrates, pH levels
Accelerometer	How activity level affects development of autoantibodies, progression of autoantibodies, and type I diabetes
Blood	Development of autoantibodies, screening for celiac disease, HbA1C
Stool samples	Viruses and bacterial remnants
Parent and child life events and experiences	Effect of stress on development of autoantibodies and type I diabetes
Illnesses	Whether certain viral or bacterial infections affect the development of autoantibodies and type I diabetes
Nasal swab	Viruses that are present in the nose
Cortisol	Stress response
Family DNA	How known type I diabetes genes are passed in families; possible discovery of new genes
Urine	Infections, environmental toxins, metabolites, and proteins possibly related to type I diabetes
Puberty Assessment	How growth and development that happen during this time influence diabetes autoantibodies and T1D

Atlanta TEDDY Office
 Georgia Regents University
 1100 Lake Hearn Drive, St 300
 Atlanta, GA 30342
 404-252-0844

Augusta TEDDY Office
 Georgia Regents University
 Center for Biotechnology
 and Genomic Medicine
 1120 15th Street, Bldg CA-4123
 Augusta, GA 30912
 706-721-4161

Gainesville TEDDY Office
 University of Florida,
 Department of Pediatrics
 2004 Mowry Road;
 2230 North Side 2F CTRB Bldg
 Gainesville, FL 32610
 352-334-0843

The Atlanta Site's TEDDY Fall Festival 2012

SAVE THE DATE:
Saturday, September 28th, 2013
10AM to 1PM



The TEDDY Study
Annual Fall Festival

Roswell Area Park
 For All TEDDY Kids and their Families
 Don't Miss The Fun - Watch Your Inbox -
 Invitation Coming In August!



Fun Recipe: Apple Bites

Ingredients:

- Red apple slices
- Peanut butter or honey
- Mini marshmallows

- 1) Spread a layer of peanut butter or honey on one side of apple slices
- 2) Sandwich marshmallows between the slices to make "teeth"
- 3) Serve and enjoy!



Kids Corner

U	T	K	S	B	A	J	B	H	C
T	B	F	N	T	A	S	Y	D	H
E	Z	S	Q	V	O	Q	V	I	V
D	Z	K	I	A	E	O	I	A	I
D	U	L	N	Q	F	N	L	B	S
Y	A	D	O	O	L	B	E	E	I
S	C	I	E	N	T	I	S	T	T
Z	E	Y	Z	X	K	V	L	E	L
C	K	M	X	A	T	E	T	S	U
F	L	R	V	X	Y	A	E	A	N

TEDDY
 STOOL
 SCIENTIST
 VISIT
 DIABETES
 BLOOD
 SALIVA
 DNA