CONSORTIUM FOR IDENTIFICATION OF THE ENVIRONMENTAL DETERMINANTS OF DIABETES IN THE YOUNG (TEDDY)
http://www.teddystudy.org

Description of Project

- The goal of the "The Environmental Determinants of Diabetes in the Young" (TEDDY) consortium is to organize international efforts to identify infectious agents, dietary factors, or other environmental factors, which trigger type 1 diabetes in genetically susceptible individuals.

Accomplishments

- Agreed on primary and secondary goals of the study and formulated a number of testable hypotheses;
- Established a committee structure that is developing guidelines for recruitment and dissemination of study results;
- Estimated diabetes risks by age 15 years for general population children and relatives of type 1 diabetic patients with specific HLA class II genotypes in each clinical center;
- Developed detailed and prioritized list of candidate infectious, dietary, and other environmental factors that are worth further consideration;
- Organized a workshop with world-class experts to discuss identification of additional infectious agents;
- Developed plan for quality control monitoring;
- Developed detailed subject contact materials including consent forms;
- Identified and established world-class autoantibody and genotyping central laboratories, the latter to complement clinical center HLA screening;
- Developed a detailed quality control plan for HLA and autoantibody testing;
- Finalized the protocol.

Future directions

- Identify infectious agents, dietary factors, or other environmental factors including psychosocial events, which may trigger type 1 diabetes in genetically susceptible individuals;
- Create a central repository with data and biological samples;
- Develop novel approaches to identify infectious pathogens, dietary factors or other environmental influences that contribute to the pathogenesis of type 1 diabetes;
- Lead to a better understanding of disease pathogenesis and new strategies to prevent, delay and reverse type 1 diabetes.

Updated May 2004

Materials to be made available to researchers

- DNA samples (cell lines) from individuals at risk of developing diabetes;
- Phenotype data from these individuals;
- Plasma, serum, mRNA, stool, and other samples from these individuals;
- Data from genetic and laboratory analysis of stored DNA, plasma, and serum samples.

The TEDDY consortium, funded in September 2002, plans to create a central repository of above mentioned data and biological samples. The consortium will also develop plans for access and distribution of materials.

Participants

Sponsors: National Institute of Diabetes and Digestive and Kidney Diseases
National Institute of Allergy and Infectious Diseases
National Institute of Child Health and Human Development
National Institute of Environmental Health Sciences
Centers for Disease Control and Prevention
Juvenile Diabetes Research Foundation
American Diabetes Association

Participating Institutions

The TEDDY consortium consists of one data coordinating center (in Tampa, Florida) and 6 clinical centers. The clinical centers are located to represent the states of Washington, Colorado, Georgia/Florida as well as Finland, Germany, and Sweden.

Steering Committee Members

Name	Affiliation
Beena Akolkar	NIDDK, NIH
Bill Hagopian	Pacific NorthWest Research Institute
Jeffery P. Krischer, co-chair	University of South Florida, Moffitt Cancer Center
Ake Lernmark	University of Washington School of Medicine
Marian Rewers, co-chair	University of Colorado Health Sciences Center
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