

Summer Student Research Program
Project Description

FACULTY SPONSOR'S NAME AND DEGREE: *Walter Zahorodny, PhD*

PHONE: (973) 972 - 6577

DEPARTMENT AND INTERNAL MAILING ADDRESS: *Pediatrics Department, NJ Medical School, Room F511, 185 South Orange Avenue, Newark, NJ*

E-MAIL: *Zahorodn@njms.rutgers.edu*

PROJECT TITLE:

Optimizing Autism Spectrum Disorder Identification Through the Use of Atlas.ti

HYPOTHESIS:

We predict that use of a novel computer application (Atlas.ti) will expedite scoring and analysis leading to ASD case determination, compared to the standard method for case determination.

PROJECT DESCRIPTION (Include design, methodology, data collection, techniques, data analysis to be employed and evaluation and interpretation methodology)

This study will investigate the use of a novel application (Atlas.ti) for public health use in identifying Autism Spectrum Disorder (ASD) subtypes. ASD is an important developmental disorder affecting 3% of children in New Jersey. New Jersey Autism Study (NJAS) is a public health surveillance system that determines the prevalence and expression of ASD. It is an active surveillance system that uses existing health and educational records for determination of ASD prevalence. Case determination is based on independent scoring and analysis of information, which is time consuming and labor intensive. In this study, researchers will implement and evaluate the use of the Atlas.ti computer application for ASD case determination and evaluate the concordance of the application guided scoring compared to standard scoring and analysis.

This study is approved by the Rutgers--New Jersey Medical School Institutional Review Board (IRB).

SPONSOR'S MOST RECENT PUBLICATIONS RELEVANT TO THIS RESEARCH:

“Prevalence of Autism Spectrum Disorder Among Children Aged 8 Years — Autism and Developmental Disabilities Monitoring Network, 11 Sites, United States, 2014”, MMWR 2018, Vol. 67, No. 6, 1-2

THIS PROJECT IS: Clinical Laboratory Behavioral Other

THIS PROJECT IS CANCER-RELATED

Please explain Cancer relevance

THIS PROJECT IS HEART, LUNG & BLOOD- RELATED

Please explain Heart, Lung, Blood relevance

THIS PROJECT INVOLVE RADIOISOTOPES?

THIS PROJECT INVOLVES THE USE OF ANIMALS

PENDING

APPROVED

IACUC PROTOCOL #

THIS PROJECT INVOLVES THE USE OF HUMAN SUBJECTS?

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APPROVED

IRB PROTOCOL # 120010288

THIS PROJECT IS SUITABLE FOR:

UNDERGRADUATE STUDENTS

SOPHOMORES

ENTERING FRESHMAN

ALL STUDENTS

THIS PROJECT IS WORK-STUDY:

Yes

or

No

THIS PROJECT WILL BE POSTED DURING ACADEMIC YEAR

FOR INTERESTED VOLUNTEERS:

Yes

or

No

WHAT WILL THE STUDENT LEARN FROM THIS EXPERIENCE?

The student will learn about the expression of ASD in children and the practices of evaluation and diagnosis conducted with children who have ASD. The student will also learn how to conduct public health surveillance using a comprehensive CDC-developed methodology, and how to prepare data and findings for professional reporting.