Regulated Research Institutional/Industrial Setting Form (1C)

This form must be completed AFTER experimentation by the adult supervising the student research conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Name(s)   **Sanjana Ahmed**

Title of Project   ☆ Volumetric Measurements provide a differential diagnosis of schizophrenia from related disorders

To be completed by the Supervising Adult in the Setting (NOT the Student(s)) after experimentation:
(Responses must be on the form as it is required to be displayed at student's project booth; please do not print double-sided.)

The student(s) conducted research at my work site:
1. Did you or your proxy (e.g. graduate student, postdoc, employee) mentor or provide substantial guidance to the student researcher?   ☑ Yes   ☐ No
    a. If no, describe your and/or your institution's role with the student researcher and his/her project (e.g. supervised use of equipment on site without ongoing mentorship and sign below.

    b. If yes, complete questions 2–5.

2. Is the student's research project a subset of your ongoing research or work?   ☐ Yes   ☑ No
    Use questions 3, 4 and 5 to detail how the student's project was similar and/or different from ongoing research or work at your site.

3. Describe the independence and creativity with which the student:
    a. developed the hypotheses or engineering goals for the research project

    Sanjana utilized her research into previous work on schizophrenia utilizing MRI to develop her own hypothesis on the data utilized for this study. She determined that gyrification, sulcal depth, and cortical thickness have not previously been utilized to evaluate differences between schizophrenia patients and those with other forms of mental illness and family history of mental illness.

    b. designed the methodology for his/her research project

    Sanjana decided to utilize MRI analysis of gyrification, sulcal depth, and cortical thickness to examine her cohort. We simply provided her with the tool and instruction in the tool to complete her work.

    c. analyzed and interpreted data

    Sanjana performed multiple analysis steps for her project. She segmented the structural MRI images of all subjects into the three main brain tissue classes, estimated the total intracranial volume for all subjects, smoothed gray matter segmented images, and ran comparison analysis between the groups. She then utilized her gained knowledge of the technique to assist in the interpretation of her data.

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Student's Name(s) Sanjana Ahmed

4. Detail the student's role in conducting the research (e.g. data collection, specific procedures performed). Differentiate what the student observed and what the student actually did.

Sanjana participated in downloading subject data from the open database and determined which subjects would be included as controls as well as patients. She performed all steps in the analysis herself, following quick tutorials in the software. She ran segmentations, smoothing, creation and estimation of statistical models, and running the full analysis. She additionally ran ANOVA and multifactorial analysis on brain volumes collected from the segmentation process.

5. Did the student(s) work on the project as part of a group?   ☐ Yes   ☑ No
    If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

I attest that the student has conducted the work as indicated above and that any required review and approval by institutional regulatory board (IRB/IACUC/IBC) has been obtained. Copies are attached if applicable.
I further acknowledge that the student will be presenting this work publicly in competition and I have communicated with the student research regarding any requirements for my review and/or restrictions of what is publicized.

Patricia Stefancin	*Patricia L. Stefancin*	Clinical Research Assistant
Supervising Adult's Printed Name	Signature	Title
Stony Brook University Hospital		09/26/19
Institution		Date Signed (must be after experimentation) (mm/dd/yy)
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