

Supervisor & Project Information Form

Please complete and return via email ONLY to gdip.hres@utoronto.ca by **Monday September 30, 2019**

Supervisor Information

MUST have unrestricted SGS appointment (appointment to supervise graduate students)

Name: Geoffrey Liu	Email: geoffrey.liu@uhn.ca
SGS Department: Dalla Lana School of Public Health (Dept of Epidemiology), Medicine, Department of Medical Biophysics, Institute of Medicine Science	Field of Research: Pharmacoepidemiology; clinical and molecular oncology
Research Institution affiliation (if applicable): Princess Margaret Cancer Centre (University Health Network)	Location of Work: MaRS, 101 College St, Toronto, ON
Student contact time (number of hours per week YOU are available to the student for any concerns or to review progress): 1h/wk in-person meeting + available by email as needed; student will have additional support from epidemiologist and scientific associate in the Liu Lab	

Project Information (will be posted on GDipHR website for student access)

TITLE: Assessing Hearing Loss in Cancer Patients Treated with Ototoxic Therapies

DESCRIPTION (MAX 500 WORDS):

Commonly-used cancer therapies (including platinum-based chemotherapy and radiation to the head and neck) can have ototoxic side effects which greatly impact patients' lives post-treatment. Symptoms of cisplatin ototoxicity can include pronounced high-frequency hearing loss, ear pain, and tinnitus. Identifying ototoxicity allows clinicians to protect against future hearing loss by adjusting treatment, to prevent or slow down any further deterioration in hearing.

The ShoeBox audiometer is an iPad-based test that can be self-administered by patients, and has been validated for in-clinic use. In this study, we plan to utilize this in-clinic hearing test to a) test the feasibility of screening for hearing loss in the clinics, b) evaluate prevalence, time-to-onset, and clinical predictors of hearing loss after potentially-ototoxic therapy, and c) analyze hearing-related quality of life among patients who develop hearing loss.

If human subjects are involved, have the appropriate Research Ethics Board approvals been obtained?

Yes No Application Submitted (Date: _____)

Do you expect this work will be published within the 20 months?

Yes No Uncertain / Other

Student Roles & Responsibilities (please be as specific as possible)

Please indicate who will serve as the student's direct report for daily oversight (PI, PhD student, technician, etc...)

The GDipHR student will be responsible for overseeing data collection (currently ongoing) and analyzing the results of hearing tests before, during, and after treatment. The student will also be responsible for conducting a feasibility assessment of in-clinic implementation of the ShoeBox system as a regular screening tool for clinical use. In addition, the student may be assist with analysis and reporting for a second, parallel study of genetic and clinical predictors of ototoxicity in cisplatin patients (using results from audiologist-administered testing). For analysis, the student will be working with a member of the Princess Margaret biostatistics team to design, conduct, and interpret appropriate statistical analyses for publication of results.

The GDipHR student will be supervised by Cathi Brown (scientific associate) and Katrina Hueniken (Research Analyst) in the Liu Lab.