

Data Studio

1:30–3:00pm, Wednesday, 6 April 2022

Conference Room X393, Medical School Office Building, 1265 Welch Road, Stanford, CA

Videoconference:

[https://stanford.zoom.us/j/92154339367?pwd=T2ZpSXlGdWxFTHNKZ1ptc1F1ZFErUT09](https://stanford.zoom.us/j/92154339367?pwd=T2ZpSXlGdWxFTHNKZ1ptc1F1ZF1ZFErUT09)

Password: 761452

Investigator: Sophia Chernikova Neurosurgery

Title: Do cell migration inhibitors delay brain metastasis in breast cancer patients?

Summary:

The Data Studio Workshop brings together a biomedical investigator with a group of experts for an in-depth session to solicit advice about statistical and study design issues that arise while planning or conducting a research project. This week, the investigator(s) will discuss the following project with the group.

Leptomeningeal Disease (LMD) is the most aggressive type of metastasis where cancer cells spread via the cerebrospinal fluid within the leptomeningeal layers of the brain. Cell migration has been identified recently as an important factor that affects breast cancer patient survival. Our preliminary work demonstrates that cancers with enhanced migratory characteristics have higher propensity for brain metastasis and LMD. We hypothesize that treatments which hamper cell migration may decrease metastatic spread. In this retrospective cohort study, we review the medical records of 133 breast cancer patients who developed brain metastasis/LMD. We classify the treatments as either anti-migratory (AM) or not (non-AM), based on the reported ability of drugs to slow down cell migration. Next, we plan to explore whether treatments with anti-migratory component affect metastatic spread of breast cancer. Specifically, we would like to test whether treatments with an AM component affect the times from the primary diagnosis or first metastasis to brain metastasis/leptomeningeal disease or death.

Questions:

The statistical questions we would like to address during the workshop are as follows:

1. relationship/comparison
2. power analysis
3. an estimate of the validity of our methodology and pilot tests

Zoom Meeting Information

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For more information about Data Studio:

<http://med.stanford.edu/dbds/resources/data-studio.html>