HSCI RESEARCH SEMINAR SERIES
SCHOOL OF HEALTH SCIENCES

This week's seminar will be virtual only – here is the Zoom Link:
https://purdue-edu.zoom.us/j/2714741159

“Dose Prescription Variability in Radiation Oncology and the Impact on Patient Outcomes”

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Tuesday, April 6, 2021
4:30-5:30 PM Eastern Time (US and Canada)

Abstract: Standards of care in radiation therapy are established based on the premise, with supporting clinical evidence, that specifically quantified radiation doses delivered to defined treatment volumes, within some variation window, result in specific patient outcomes. A direct correlation is reported to exist between prescribed dose and patient outcomes for many disease sites at various stages; clinical studies have established that dose prescription variations of just a few percent could substantially impact local control and treatment success. However, without standardization of the prescription how can variations in dose delivery be interpreted? Is the prescription dose representative of a minimum, maximum or mean dose delivered to the target volume? While it is known that variations in dose prescription among academic institutions exist, what is not clear is how these variations critically impact overall survival and local control among patient groups. This retrospective study intends to better understand the effect dose prescription variability has on patient outcomes based on correlations between dosimetric treatment parameters and cancer registry data.

Host: Ulrike Dydak