

Graduate Mathematics Seminar: Model-Informed Precision Dosing

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Abstract: Currently, medications are prescribed to patients with a fixed dosing paradigm, such that nearly all adults receive the same absolute dose, and children receive the same dose per kilogram of body weight. This manner of prescribing leads to wide variations in drug concentrations in the body and resulting effectiveness. In this talk we will discuss mathematical and computer-based methods that permit "Model-Informed Precision Dosing" to tailor medication doses to individual patients, increasing the chances of successful therapy. We will include relevant examples of patients who received model-informed precision dosing treatments and analyze the outcomes.

When : Monday, September 28, 2020, 6:00 – 7:00 pm
Where : Online, via Zoom

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