**Case # 4: Group Assignment**

* Due Friday by 11:59a.m.
* Points 5
* Submitting a file upload
* File Types ipynb and pdf
* Available Apr 6 at 6p.m. - Apr 12 at 11:59a.m.

Hi Class,

Please answer the following questions related to the LHSC Multi-Organ Transplant Program case study discussed during the lecture:

1. What is the current level of activity in the queuing systems of Toronto and London? This includes factors like their utilization rate, wait times, and the length of their wait lists. Provide your thoughts on the findings (employ steady-state analytical methods to evaluate the performance of the systems).

2. Create three different queuing system designs and assess their performance compared to the existing setup. Determine which design would be most advantageous for the patients. Share your insights on the outcomes  (employ steady-state analytical methods to evaluate the performance of the systems).

3. Conduct discrete event simulations to evaluate how variability in both arrival and service processes affects the original waitlist and the proposed design from question 2.

4. Explore the potential consequences for the original waitlist if patient arrivals were to increase by 5%. Utilize both simulation techniques and steady-state analytical solutions to analyze the scenario.

5. What specific recommendations would you make to improve the system?

The due date for submission is Friday, April 12 at 11:59 am. Late submission is not accepted.

Good Luck!

Akram