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A Sequential Stochastic Mixed Integer Programming Model For Tactical Master Surgery Scheduling

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Highlights

- We develop a mixed integer programming model for master surgery scheduling.
- Our model has novelty that it uses scenarios in a chronologically sequential manner.
- The master surgery schedule responds for the first stage decisions.
- The cancellation decisions are modelled as recourse actions.
- We optimise scheduling decisions over many lengths of stay scenario realisations.
- We sample patients lengths of stay and position patients in a queue, randomly.
- To enhance non-anticipative feature, patients are scheduled in their queuing order.

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