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Multiple criteria mixed-integer programming for incorporating multiple factors into the development of master operating theatre timetables

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#### ACCEPTED MANUSCRIPT

#### Highlights

- Developing a model for creating master operating theatre timetables that include multiple factors.
- Smoothing of expected bed usage, taking account of variations in bed availability.
- The use of operating theatre types allowing for multiple non-nested types.
- The inclusion of surgeons' preference scoring of available operating theatre slots.



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