

Project Title	Refining modelling of future COVID-19 related workload in Canberra Hospital
Supervisor	Prof Drew Richardson
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Lead discipline (please select one)

- | | |
|---|---|
| <input type="checkbox"/> Nursing and Midwifery | <input type="checkbox"/> Health Economics |
| <input type="checkbox"/> Allied Health | <input type="checkbox"/> Biostatistics |
| <input checked="" type="checkbox"/> Medicine | <input type="checkbox"/> Value-based Healthcare |
| <input type="checkbox"/> Pre-clinical | <input type="checkbox"/> Epidemiology |
| <input type="checkbox"/> Health Policy | <input type="checkbox"/> Other |

Outline of the project 250 words max

Predicting future workload is a critical facet of managing the Health System during the COVID-19 pandemic. The Emergency Department of Canberra Hospital is involved in the modelling effort undertaken by ACT Health. In order to further refine the modelling used, both better inputs in the form of data about existing patients and better outputs in the form of predictive calculations are valuable. This project aims to collect further data on COVID-19 patients in Canberra Hospital and to collaborate on improving the existing models.

Proposed research methods

Retrospective chart review and detailed statistical analysis

Preferred study discipline being undertaken by the student

Medicine or biostatistics – requires high level of database and spreadsheet skills

Benefits to the student and to the department

Useful research experience with intention to publish and/or present findings as part of this department's ongoing COVID-19 research. The student will learn techniques of retrospective chart review, modelling approaches, and estimation of error in future projections. The student will have an opportunity to write up this part of our modelling work as a co-author and to present it at an appropriate conference. The department will gain from further available data to inform our modelling research efforts.

Alignment with Government Research Priorities 100w max

COVID-19 related project

Department within ACT Health Directorate / Canberra Health Services where the student will be based

Emergency Department Canberra Hospital

Please submit form to preclinical.research@act.gov.au