

We are a world-first centre dedicated to health research using 'big data'. We apply innovative analytics to health service, clinical, biological and population data to address real-world health problems. We are experts in best practices for data security and privacy protection.



## More information

**Louise Francis**  
Centre Manager

T: +61 (0) 2 9385 0645

E: [louise.francis@unsw.edu.au](mailto:louise.francis@unsw.edu.au)

# Health big data analytics

Centre for Big Data Research in Health

## Competitive advantage

- Multidisciplinary expertise in applying advanced analytics to real-world health data to improve clinical care and drive health policy.
- Strong partnerships with health services, health policy and industry.
- The southern hemisphere's only training courses in Health Data Science.

## Recent research projects

- Pharmaceutical claims data analytics to support industry.
- Studies of real world outcomes of assisted reproductive technologies and surgical procedures.
- Evaluation of national 'Health Care Homes' primary health care reform.

## Successful applications

- Our new methods and infrastructure for data analytics using large-scale and linked health data, including hospital data, pharmaceutical and medical claims data, are being used for multiple government- and industry-funded research and evaluation projects.
- Our research has informed Australian national policies relating to linkage and sharing of data, funding of pharmaceutical agents and assisted reproductive technologies, and clinical care of health conditions including heart disease and cancer.

## Facilities and infrastructure

- E-Research Institutional Cloud Architecture (ERICA): virtual secure data analysis facility using Amazon Web Services (AWS)



## Our experts

- Professor Louisa Jorm
- Professor Sallie Pearson
- A/Professor Georgina Chambers
- A/Professor Claire Vajdic