



THE UNIVERSITY OF
MELBOURNE

Faculty of Medicine,
Dentistry and Health
Sciences

Collaborate with MISCH to maximise your research impact

Shaie O'Brien, MISCH manager

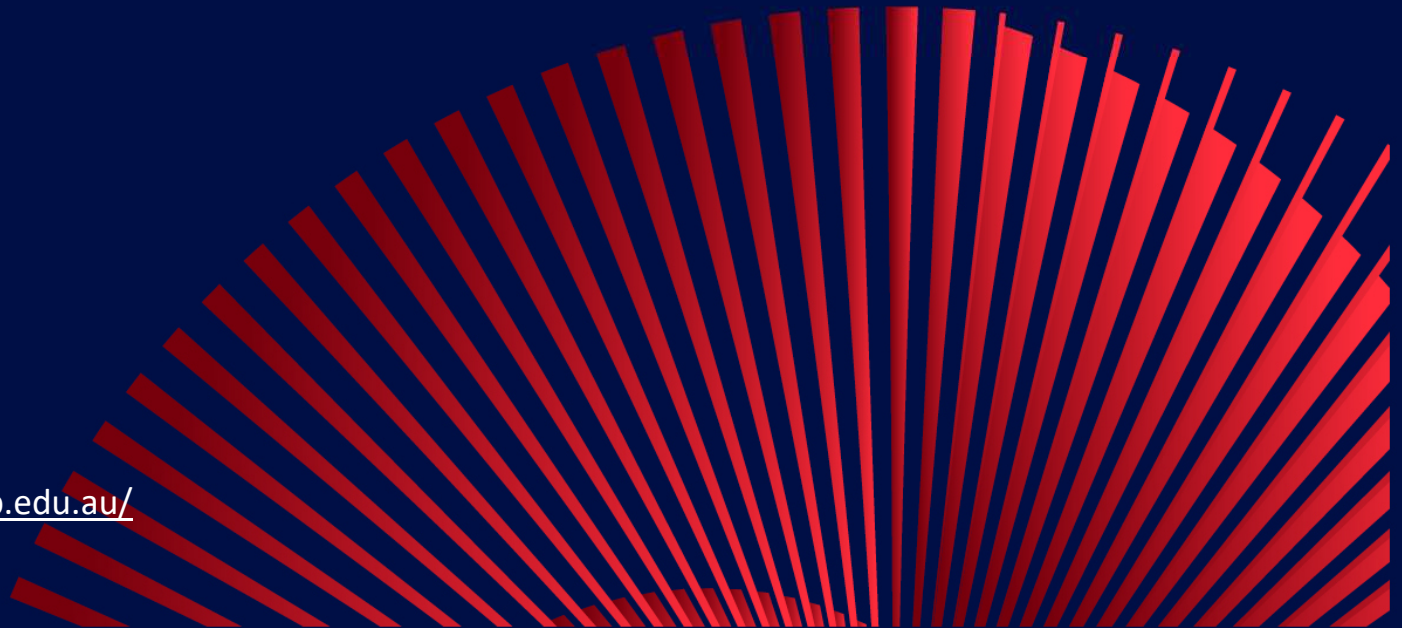
MISCH *Hub*

Methods and
Implementation Support for
Clinical and Health Research

Website:- <https://clinicalresearch.mdhs.unimelb.edu.au/>

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X @MischHub



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SO HOW DOES MISCH SUPPORT CLINICAL AND HEALTH RESEARCH?



One-stop shop for cutting-edge support in clinical and health research. Our team of biostatisticians, co-design experts and health economists provide expertise, from planning to execution and reporting.



We have a clinical trial coordinators network that connects over 120 clinical trial staff across the University.



We provide a vast array of training opportunities for researchers at all stages of their careers from one-on-one consults to webinars, workshops and in person seminars.



We provide expert guidance to increase funding success. Co-investigators on 66 grants (31 successful) in 2023. 59 in 2024 (13 successful to date).



We foster interdisciplinary and cross-school collaborations and supported over 140 projects last year.



MISCH has been instrumental in establishing – and will be providing the methodological support for, the newly launched Melbourne Centre for Clinical Trials (MCCT) which will bring together a consortium of clinical trial groups to deliver exceptional trials.

MISCH nodes of support

Biostatistics and Clinical Epidemiology

Biostatistics underpins the sound application of statistical methods in clinical research.

[→ View](#)

Health Economics

Economic evaluation is widely used to assess many new health care interventions and technologies.

[→ View](#)

Health Informatics (REDCap)

Health Informatics ensures the optimal use of information, including REDCap database support to capture health and clinical data.

[→ View](#)

Clinical Trials

Health-related interventions that seek to evaluate tests and treatments comprise Clinical Trial research. Mutually beneficial relationships and resources allow the University and partners to work together, sharing resources and knowledge.

[→ View](#)

Co-Design and Consumer Involvement

Supporting health and social services to use participatory and collaborative approaches for research, intervention co-design, and monitoring and evaluation to improve services, systems, and outcomes

[→ View](#)

Melbourne Academic Centre Health Node Health Studies Australian National Data Asset (HeSANDA)

Learn about the HeSANDA initiative, Health Data Australia and how to contribute your clinical trial metadata.

[→ View](#)

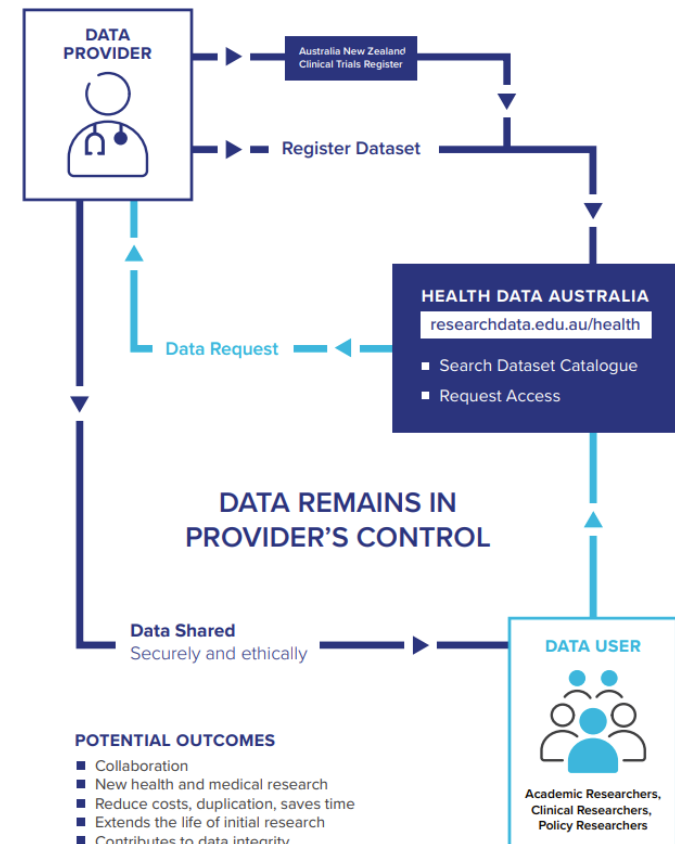


Health Studies Australian National Data Asset (HeSANDA)

- HeSANDA is a national initiative of the Australian Research Data Commons (ARDC)
- Collaboration of 9 HeSANDA nodes that represent over 70 health research organisations across Australia
- Catalogue of clinical trial metadata – researchers can browse and apply to the P.I./data custodian to be considered for secondary reuse of trial data

Contact MACH HeSANDA Node

hesanda-mach@unimelb.edu.au





What does working with MISCH look like?

3TLA Trial – 244 participants with MND

Led by:- Prof. David Berlowitz, \$3.4M

Biostatistics

- Design the multi-centre RCT
- Calculate sample size required
- Randomisation
- Study protocol
- Data collection, database checks, & data cleaning
- Statistical analysis
- Reporting & interpretation of findings



Health Economics

- Cost data to collect for quality of life, hospitalisation, survival, carer burden, etc.
- Performing cost-effectiveness analyses



How MISCH can help

Co-Design & Consumer Involvement

- Grant development support
- Consumer engagement or co-design planning and outputs
- Literature review about relevant co-design or implementation research for your project
- Evaluating co-design processes, interventions, and implementation strategies
- Mentoring and education about co-design and implementation
- Multidisciplinary research with other MISCH nodes (e.g., biostats, health economics, etc.)



MISCH support models

Grant development:

Best for:

- Development of new clinical research grant applications
- Strengthening research design & methodology
- Used to develop grant applications

Model:

- Budget included for salary support
- Chief or Associate investigator on the grant

Subscription:

Best for:

- Protocol review, sample size, randomisation
- Data analyses
- Systematic reviews
- Paper revisions

Model:

- Budget via subscription package (e.g. 50 hours)
- Authorship discussed, independent of costs

Hub and Spoke model:

Best for:

- Long term research collaborations >12 months
- Hospitals & research departments
- Research group gains ongoing support, & biostatistician / health economist is supported through specialised groups

Model:

- E.g. 0.4FTE for 12 months
- Costs depend on experience of biostatistician



Training (Website:- <https://clinicalresearch.mdhs.unimelb.edu.au/>)

MACH EMCR Webinars

[Example topics]

- Introduction to Co-Design – what, why, who and how
- Simulating an Adaptive Trial
- Cost-utility analysis of health care interventions using clinical trial data – key aspects and case study
- Survey Design

Recordings are available at MACH website for 2022, 2023 & 2024 webinars

<https://machaustralia.org/news/mach-2024-emcr-research-design-webinar-series/>



Training (Website:- <https://clinicalresearch.mdhs.unimelb.edu.au/>)

2025 MACH ECR & MCR Webinars

- Statistical Significance vs. Clinical Significance
- Co-design & consumer involvement in clinical trials
- Systematic reviews & meta-analysis
- Comparing Trial-Based & Model-Based Cost-Effectiveness Analyses: Methodologies & Decision-Making Criteria in Healthcare

Health Economics courses

- Introduction to cost-effectiveness analysis in health
- Evaluating public health interventions using epidemiological & economic methods
- Practical methods for health economic evaluation
- Designing economic evaluation alongside clinical studies

REDCap courses

- REDCap 1: An introduction, *6 May, 30 July, 16 Sept, 11 Nov 2025*
- REDCap2: Beyond the basics, *4 March, 29 July, 18 Nov 2025*

Thank you!

- Website: <https://clinicalresearch.mdhs.unimelb.edu.au/>
- Email: misch-info@unimelb.edu.au
- Bluesky: [@mischhub.bsky.social](https://bsky.app/profile/@mischhub.bsky.social)
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