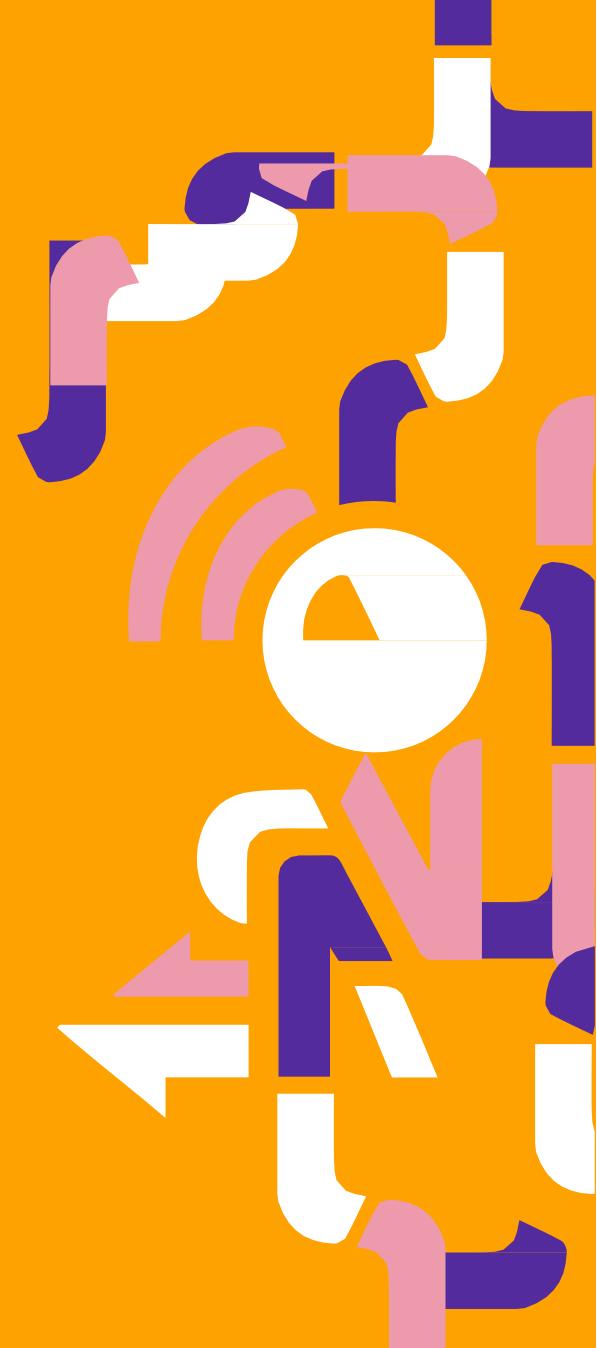


# MiNDAUS National MND/ALS Registry



**MiNDAUS  
PARTNERSHIP**

**together into  
the future**

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# MiNDAUS

## Patient Registry

# MiNDAUS

## Clinical Registry

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## Framework

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# The MiNDAUS Partnership

This partnership was founded in 2017 and funded by a 2018 National Health and Medical Research Council (NHMRC) Partnership Grant (Kiernan, Wray et al. 2018), led by Principal Investigator Professor Matthew Kiernan (University of Sydney). A full list of partners and their affiliations is available in [Appendix A](#).

The MiNDAUS Partnership/Leadership Group will continue to build on and extend existing national collaborations in a continuing effort to improve the standard and coordination of care for people with MND in Australia, and to enhance the prospects of discovering a cure or treatment. Relationships have been developed between leading clinical and research groups and patient-centred organisations, care providers and philanthropy with a shared vision.

## Project Team

### National Team

Professor Steve Vucic, , Coordinating Principal Investigator

MND Australia, Data Operations Management for MiNDAUS Registries.

### MND Australia

MND Australia assumed the role of the Clinical Registry Operator for MiNDAUS registry in July 2025. In this capacity MND Australia will be managing the governance, infrastructure, and operational delivery of the registry; this includes ensuring ethical data collection, secure data management, and meaningful reporting to stakeholders across the health system.

### Site Specific Coordinating Project Staff and Participating sites

Professor Ostoja Steve Vucic, Calvary St Joseph's, Auburn NSW,

Professor Ostoja Steve Vucic, Brain and Nerve Research Centre, Concord, NSW

Professor Paul Talman, Barwon Health, Geelong, VIC

Associate Professor Susan Mathers, Calvary Health Care Bethlehem, Parkdale, Vic

Professor Matthew Kiernan, Brain and Mind Centre, University of Sydney, NSW

Professor Matthew Kiernan, Neuroscience Research Australia (NeuRA), NSW

Dr Laura Perju-Dumbrava, Calvary Health Care Bethlehem, Parkdale, VIC

Professor Dominic Rowe, Macquarie Neurology, North Ryde, NSW

Associate Professor David Schultz, Flinders Medical Centre, Bedford Park SA

Associate Professor Rob Henderson, Royal Brisbane and Women's Hospital, QLD

Associate Professor Antony Winkel, Sunshine Coast University Hospital, QLD

Professor Merrilee Needham, Fiona Stanley Hospital, Murdoch, WA

Dr Dev Nathani, Perron Institute for Neurological and Translational Science,



Nedlands, WA  
Dr Jessie Chen, Northern Health, Bundoora, VIC  
Professor Tom Jenkins, St John of God, Midland, WA  
Dr Lauren Giles, Launceston General Hospital, Launceston, TAS

A detailed list of sites with contact details is maintained by the MiNDAUS Leadership Group and is a supporting document to this application.

## Background

### Australian Motor Neurone Disease Registry (AMNDR)

Since 2004, patients attending Specialist MND Clinics around Australia have had the opportunity to be enrolled in the Australian Motor Neurone Disease Registry (AMNDR) (Australian Motor Neurone Disease Registry 2020) which collects clinical and disease progression data. AMNDR needed to be expanded and updated to a more secure platform to permit easier data entry and analysis. Currently, AMNDR holds the non-identified clinical data of 2,600 patients.

### Sporadic ALS Australia Systems Genomics Consortium (SALSA-SCG)

This consortium was established in 2015 with a grant through the Motor Neurone Disease Research Institute of Australia (now known as MNDRA) established with funding received from the Ice Bucket Challenge. SALSA has been successful in establishing collaborative relationships with clinicians, researchers and patients with MND/ALS.

SALSA-SCG (2019) has achieved a world class genomics database which through a collaboration between Specialist MND Clinics and their patients from around Australia. SALSA-SCG continues this work currently due to funding sourced from the MiNDAUS Partnership and from FightMND.

The aim is to integrate the clinical data obtained from AMNDR and the biological data analyses performed by SALSA-SCG into a powerful tool for investigating the genetic and possible environmental causes of MND

## MiNDAUS Patient and Clinical Registry

The MiNDAUS Partnership had developed an online platform which has two interfaces, the MiNDAUS **Patient** Registry for patient and family carer use and the MiNDAUS **Clinical** Registry which will accumulate real-time, quality-controlled clinical data relevant to patient care and research. The MiNDAUS Registry has replaced the Australian Motor Neurone Disease Registry (AMNDR).. The benefits of this registry are:

### MiNDAUS Patient Registry

The MiNDAUS Patient Registry **allows people with MND the choice of recording information about themselves**, their diagnosis and their specific care needs on a platform which makes it easy to complete, easy to update and easy to share with people of their choosing. The patient can decide to create a document titled 'About me and MND' with the details they have entered which can be emailed, printed, or viewed on their device. This document could be shared with a new GP, a new Allied Health Professional such as a Speech Pathologist, or a hospital or respite care service, for example. A link to MiNDAUS About me will be made available to clinics and MND Associations in order to demonstrate the form.



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**The MiNDAUS Patient Registry will give patients and their carers control over their information** and removes the time-consuming task of creating such documents for themselves. This platform will also allow patients to invite their carers to share, edit and update their information and will also allow the patient to remove this access at any time. As part of the Registration process, patients will be asked if they wish to also take part in the MiNDAUS Clinical Registry.

### **MiNDAUS Clinical Registry**

**The MiNDAUS Clinical Registry currently collects relevant patient data which is allowing MND Clinicians and researchers to better understand the different forms MND takes and what might cause these differences.** Clinical data relevant to MND is collected and entered by researchers during routine clinical visits. The Registry will also help us understand how safe and effective different treatments and medicines might be. Any personal information will only be collected and stored with the consent of each participant, and the information collected will only be used according to State, Federal and International laws and guidelines governing privacy.

**The MiNDAUS Clinical Registry will also provide access to research for registered participants which includes the possibility of clinical trials.** This approach is designed to improve care and treatment of MND and ensure the best outcomes possible for people living with MND. Access to data by third parties will require approval from the MiNDAUS Leadership Group and separate institutional ethics approval specific to the research being proposed.

## **MiNDAUS Governance**

The MiNDAUS Partnership collaboratively assumes ultimate responsibility for the quality and integrity of the clinical data and overall responsibility for the conduct of the MiNDAUS Patient and Clinical Registry and takes responsibility for development, management, and financing. However, the MiNDAUS Partnership delegates oversight to the MiNDAUS Leadership Group.

## **Sponsor**

### **Role of Sponsor**

University of Sydney was acting in the capacity of Sponsor until July 2025 and transferred the role to MND Australia which will assume the responsibility for the quality and integrity of the clinical data, conduct of the operations of the MiNDAUS Patient and Clinical Registry, and takes overall responsibility for ongoing management and financing. MND Australia will play an active role during the transition of sponsorship and will review and update MiNDAUS governance to meet with Australian legal frameworks and standards.

MND Australia is acting as the legal entity for MiNDAUS. Contracts with external parties will be between the Sponsor and these parties. That is, the Sponsor delegates oversight of use of the MiNDAUS Patient and Clinical Registry to MiNDAUS governance, who will require contractual agreements that set out the roles and obligations of all involved parties.

## Insurance

MND Australia is providing the insurance requirements in accordance with the relevant requirements.

## Governance Framework



MiNDAUS Governance Structure

The original MiNDAUS Governance Framework evolved over the years resulting in a simpler streamlined structure, combining several committees and working groups where appropriate. MND Australia will continue with the MiNDAUS Partnership core values and keep engaging with people living with MND, their family carers and their families at the centre, providing the inspiration for every step taken in developing the MiNDAUS Registry. The MiNDAUS Leadership Group oversees the operations of the registry and advises on MiNDAUS strategic direction of the registry.

The governance structure for MiNDAUS is comprised of:

- MND Australia Board in which it is the governing body providing the supervisory and approver role and setting the strategic direction for MiNDAUS Registry.
- MND Australia Data, Innovation and Technology Committee (the Committee) supports MiNDAUS Leadership Group by bringing expertise to advice and monitor the relevant technologies and advances in IT, data and security.
- MiNDAUS Leadership Group (incorporating MiNDAUS Partners), the governing body of MiNDAUS Registry which provides oversight to the operations, engagement, strategy and report the Committee and MND Australia Board.
- MiNDAUS Operations Group, directed by the MiNDAUS Leadership Group to implement

requirements and handle day to day operations of the registry and coordination of data collection from different partner clinics.

### MND Australia Data, Innovation and Technology Committee

Committee	Members	Roles and responsibilities
MND Australia Data Innovation and Technology Committee (previously known as MiNDAUS Governance Committee)	<ul style="list-style-type: none"> <li>The Committee will consist of seven members, including the Chair of the Committee and the Coordinating Principal Investigator. Each member is appointed by the Board.</li> <li>The Chair of the Committee will be a member of the MNDA Board.</li> <li>Two Committee members will be MNDA Board members.</li> <li>Two Committee members will be persons with lived experience.</li> <li>One Committee member will be a Neurologist with clinical and research experience.</li> <li>One Committee member will be a member of the MNDA Research Committee.</li> <li>One Committee member will have expertise in data governance, IT, cybersecurity and digital strategy.</li> <li>The Chairperson of the Board may not serve as Chair of the Committee but may be a member of the Committee.</li> <li>The Board will determine the length of the term of appointment of each Committee member.</li> <li>The Board will review the membership of the Committee annually.</li> </ul> <p>The MNDA CEO and/or MNDA Data and Technology Manager (or equivalent) will attend but are not Committee members.</p>	<ul style="list-style-type: none"> <li>Review and support</li> <li>Measures to strengthen the approval processes for collection of, access to, use of and disclosure of data held in the Registry</li> <li>Supervise Data Governance and Strategy</li> <li>Manage Digital Strategy and Innovation</li> <li>IT and Cybersecurity</li> <li>Risk and Compliance</li> <li>Make decisions on collaborative opportunities.</li> </ul>

## MiNDAUS Leadership Group (incorporating MiNDAUS Partners)

Committee	Membership	Roles and responsibilities
MiNDAUS Leadership Group	<p>MND Australia CEO Principal Investigator</p> <p>MiNDAUS Partners delegates</p> <p>Other Member organisation</p> <p>Living with MND representative</p>	<ul style="list-style-type: none"> <li>Provide governance and oversight of the day-to-day operations of the MiNDAUS Registry</li> <li>Consider and approve data request applications</li> <li>Measures to promote increased patient and clinician engagement with the Registry</li> <li>Building on the foundation of the current MiNDAUS Registry, advise on strategies and measures to support the further development and operation of a National MND Platform, which empowers Australians living with MND and their families to maximise their wellbeing, to contribute to research and to inform better health and care outcomes</li> <li>Collaboratively develop the aims and future directions of MiNDAUS</li> <li>Collaborate on publications</li> <li>Identify opportunities for national and international collaboration</li> <li>Identify opportunities for future funding</li> <li>Actively seeking funding opportunities and grants available</li> <li>Collaborating on the grant submission process</li> <li>Identifying the need for new data variables</li> <li>Identifying the need for new functionality to the Registries</li> <li>Forming new sub committees as needed</li> <li>Delegate working committees as needed</li> </ul>

## MiNDAUS Operations Group

Committee	Members	• Roles and responsibilities
MiNDAUS Operations Team (MiNDAUSops)	<p>MiNDAUS Data/Operations Team</p> <ul style="list-style-type: none"> <li>• Coordinating Principal Investigator</li> <li>• Data and Technology Manager</li> <li>• National Clinical Registry Coordinator</li> <li>• E-Research Team- QUT</li> <li>• Representative from site PI's</li> </ul>	<ul style="list-style-type: none"> <li>• Report to MiNDAUS Leadership Group on operational matters and refer requests for data access</li> <li>• Maintain ethics and governance reporting and amendments centrally and to site Principal Investigators</li> <li>• Add and create new forms for data variables, implement and test</li> <li>• Ensure data integrity, completeness and quality by identifying outliers/errors/duplicates</li> <li>• Collate feedback and requests for new features</li> <li>• Consult and create patient/carer functionality</li> <li>• Provide technical support to users (patients, carers, clinicians)</li> <li>• Collaborate with MiNDAUS clinic sites and private Neurologists to improve engagement and data capture engagement</li> <li>• Provide training to all MiNDAUS project staff</li> </ul>

## Funding

This research was partly funded by the Australian National Health and Medical Research Council (NHMRC) which provided funding for this project for 5 years, under the 'Partnering with Consumers' Grant scheme, Application ID 1153439 2018. The funding for this type of grant initially relied on an equal amount of funding being obtained from the community. The community funding was obtained from the following sources:

- Motor Neurone Disease Research Association (the research arm of the Motor Neurone Disease Association of Australia)
- Australian Motor Neurone Disease Registry
- Motor Neurone Disease Association of Western Australia
- Thomas MND Research Group
- Motor Neurone Disease Association of Australia
- MND and Me Foundation

In addition, MiNDAUS benefited from work that was started from funding from other sources. In particular:

- Foundation for Angelman Syndrome Therapeutics
- Racing for MNDi Foundation
- FightMND
- The Ice Bucket Challenge
- MTP Connect

MND Australia will support the MiNDAUS Registry through allocating funds from the organisation research budget to continue its operation.

## Project Description

### Significance

Motor neurone diseases (MND) are adult-onset neurodegenerative disorders where progressive motor weakness leads to death, usually from respiratory failure. In Australia, an estimated 2700 people are living with MND at any given time (Every Moment Matters, EvoHealth Economics 2025). While some people can live a long time after diagnosis, the majority survive only 2 to 3 years. The rapid morbidity of the disease puts our health system under particular strain and care is often provided by informal or family carers (Aoun, Birks et al. 2020).

Research into treatments and potential cures is hampered by economics, the relatively low prevalence of the disease and the rate of progression. However, patients consistently identify a desire to participate in the quest for a cure (Halpin, Savulescu et al. 2015, Mathers and Talman 2017), and around the world there are many patient and family led philanthropic organisations willing to fund clinical trials where governments and Pharmaceutical companies hesitate (MND and Me Foundation Ltd 2016, Fight MND 2020, I am ALS 2020, Les Turner ALS Association 2020), among others. Charitable advocacy organisations such as the research arm of the Motor Neurone Disease of Australia (MNDA), Motor Neurone Research Australia (MNDRA), are also active in this space. There is only one approved treatment shown to extend life expectancy which is a drug called Riluzole, which may extend life by three to five months (Dharmadasa and Kiernan 2018).

Supportive treatments are the mainstay of care, such as breathing, nutrition, mobility and communication support, in addition to complex symptom management (National Institute for Health and Care Excellence (NICE) 2016). Loss of functional speech occurs in the vast majority of people with MND (Bongioanni 2012, Elliott, Newton et al. 2020), and a spectrum of cognitive and behavioural impairment occurs in around 50% of all people with MND (Hsieh, Caga et al. 2016). These two factors increase the need for specialist referral and support for both the patient and the family carer (Burke, Hardiman et al. 2018, Elliott, Newton et al. 2020).

Evidence promotes the role of team-based, multidisciplinary care for people with MND to provide multidimensional assessment, symptom management and care-planning (Dharmadasa 2016, National Institute for Health and Care Excellence (NICE) 2016). In Australia, Specialist Multidisciplinary Clinics operate in major population centres. Factors such as the distance a patient may live from one of these clinics, and the often rapidly increasing disability of the person with MND mean that the care provided by a Specialist Clinic needs to be supplemented by regional and



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community health services and organisations, such as State-based MND Associations (Aoun, Birks et al. 2020), which differ in the amount and type of support they offer. At best they offer specialised equipment loan services, home visit programs and support groups for people living and dying with MND, their family carers and their families.

A further complicating factor in the delivery of coordinated services is the inequity in funding between those who are eligible for the NDIS (under 65 years old) and those who need to access the Federal Government's My Aged Care system (Hogden, Paynter et al. 2020).

The assimilation of the clinics in major centres with other health and community service providers to meet each person's needs and preferences is currently more ambition than reality, partly because there may be up to 22 separate Health Care Providers involved in the care of one person with MND (Mathers and Talman 2017). The fragmentation of care is illustrated by the following quotes from bereaved carers in WA (Aoun 2020)):

*Our care was chaotic. No one knew who was doing what, no co-ordination. It was in the roll out and trials of NDIS in WA and really cannot sum up how poor it was. Much of my time was spent trying to wrangle specialists and appointments whilst trying to deal with caring for my husband in the face of his terminal illness diagnosis. We both were in shock and had not really faced any reality of his diagnosis when he suffered respiratory failure in our home in the middle of the night, just days after an appointment with a respiratory specialist and only 3 months after his eventual diagnosis with MND. 3 months of stress and trauma trying to get the right care and support services in place instead of any worthwhile time together. The process not his illness exhausted us both and I believe took him before time.*

*Our experience has been heartbreakng and we are still in the midst of it. My dad is being moved from hospital to hospital and finding palliative care is impossible. The system is broken and needs to be fixed. MND is a diagnosis that needs its own system to help understand the impact.*

In summary, there remains a significant challenge of cohesion, with a need across diverse organisations to develop cogent, coordinated policies that recognise the potential of duplication and inefficiencies between the competing priorities of drug discovery, clinical trials, service delivery and research funding.

# Aims and Objectives.

The project aims to implement the MiNDAUS Patient Registry and the MiNDAUS Clinical Registry.

The objectives of implementing the registries are expressed according to the four ethical principles.

## Supporting the ethical principle of Beneficence

The MiNDAUS Leadership Group will invite patients and carers to join the MiNDAUS Patient Registry, which will:

a) Empower patients and carers to:

- i. enter, control, and share their details to enable better patient-centered care, communication and coordination of care across health services and organisations
- ii. improve self-management.
- iii. access quality information
- iv. access and explore research opportunities of which they might otherwise remain unaware.
- v. access Specialist Multidisciplinary Clinic services and expertise, even as a remote patient
- vi. contribute to the Genomics project, SALSA-SCG.
- vii. empower patients and their carers to ask to participate in the MiNDAUS Clinical Registry.

The MiNDAUS Leadership Group will invite participation in the MiNDAUS Clinical Registry, which will:

b) Integrate established national data capture systems to improve efficiency and validity of the data, and:

- i. allow analysis of the historical dataset as well as the newly collected dataset.
- ii. ensure the clinical data is future proofed so as to allow linkage to eHealth Records and PBS data subject to stringent security protocols.
- iii. enable data sharing between healthcare professionals, thus enhancing communication between different healthcare service providers.
- iv. allow analysis of disease progression measures.
- v. allow clarification of the different types of MND so that existing and potential treatments may be better tailored to the individual
- vi. provide a resource of suitable patients for future observational and clinical trials
- vii. allow analysis of incidence, environmental factors, service provision and use in order to inform future policy directions nationwide.
- viii. unify and integrate the digital platforms to make Australia more attractive to national and international biotechnology companies for early phase clinical development of MND treatments.

## Supporting the ethical principle of Autonomy

### c) Participants will have the power to decide:

- i. whether to participate in the Patient Registry and to control which information they need and wish to enter.
- ii. to withdraw from participation at any time.
- iii. to allow their carer to access and edit their information.
- iv. to revoke the permission for carer access at any time.
- v. to upload and share their legal documents about future care, such as Advance Care Plans.
- vi. to share their information with a new healthcare provider.
- vii. whether to participate in the MiNDAUS Clinical Registry.
- viii. whether to allow themselves to be invited to participate in future research, and to consent to take part or to withhold their consent.
- ix. to withdraw their permission at any time for participation in the MiNDAUS Clinical Registry.

## Supporting the ethical principle of Justice

### d) Inclusion of all people diagnosed with ALS/MND.

- i. The inclusion of all people diagnosed with ALS/MND across Australia irrespective of the type of MND they are diagnosed with, their rate of progression, time since diagnosis and geographical location.

### e) Real time information on service delivery, quality and access:

- i. will inform new national policies for best practice service provision which will address the issues of poor coordination of care across multiple services and providers.
- ii. will address the inequities of care across jurisdictions by informing the development of evidence-based guidelines and policy initiatives.
- iii. will allow benchmarking across services nationwide to ensure there is less geographical disadvantage for patients and carers.

## Supporting the ethical principle of non-maleficence

As this is an observational study and no intervention is being trialed, the main risk to participants is unauthorized access to their data.

### f) In order to protect participant privacy:

- i. The MiNDAUS Leadership Group has developed a comprehensive Data Management Policy and the full document is available as a supporting document to this Framework.
- ii. Data will only be shared with third parties under the strict policies set out in the MiNDAUS Data Management Policy, and where access has been permitted under those rules by MiNDAUS Leadership Group and mediated by the MiNDAUS Data Operations Team. MiNDAUS has developed Standard Operating Procedures on data access and sharing.
- iii. Project staff will receive appropriate training as necessary about patient confidentiality as part of the site induction process. It should be noted that in most cases, the project staff are the same personnel already working as project staff for AMNDR and SALSA-SCG and have already demonstrated their understanding and ethical approach to patient confidentiality.

g) Participants continuing treatments and engaging in clinical trials

- iv. As this is an observational study, no intervention is being trialled and so participants are free to pursue treatments as recommended by their health care providers.
- v. Participants are not prevented from participation in clinical trials or other research that they decide to take part in.

## Project design and methods

### Study procedures

#### a) Recruitment and gaining Informed Consent from participants

With respect to the frequency of communication difficulties experienced by people with ALS/MND, consent will be considered valid if it is given via whatever method the person with MND normally employs. This will include an electronic consent on the Registry website; a 'verbal' consent from a text to speech program on an electronic device; a written signature; a verbal consent, or consent from their Legal Representative.

##### i. *Patient self-register pathway*

Information about the MiNDAUS Patient and Clinical Registries will be available on the Motor Neurone Disease Australia website with a link to the MiNDAUS website.

Any person diagnosed with MND in Australia is eligible to register themselves for the MiNDAUS Patient Registry, and consent will be obtained by a carefully controlled consent process via a Patient-Web Interface. During this process, the patient will have the opportunity to also register to participate in the MiNDAUS Clinical Registry, and nominate the Specialist MND Clinic which they attend, or will attend. During the next clinic visit, the project staff will be able to view the electronic consent, offer any further information necessary, and answer any questions the patient or their carer may have.

##### ii. *Clinic visit pathway*

All patients presenting to a clinical site for a scheduled visit will be given information about the MiNDAUS Patient and Clinical Registries. Wherever possible, the participant information sheet and consent form (PICF) for the MiNDAUS Clinical Registry will be sent to the patient prior to their appointment or provided at first registration prior to seeing their doctor.

Individuals will then be approached by the Coordinating project staff, or their representative and will be asked to participate.

- Existing clinic patients will often already be participating in the Australian Motor Neurone Disease Registry (AMNDR). If so, an explanation will be provided about the integration of AMNDR into the MiNDAUS Registries and the advantages and potential disadvantages of continuing their participation. Consent to participate will include permission to link their AMNDR ID to the MiNDAUS Registry.
- An explanation will be provided to new clinic patients about the advantages and potential disadvantages of participating in the MiNDAUS Registries and their consent to participate will be sought.
- A blank copy of the 'About Me and MND' form (MiNDAUS About Me and MND General Version) will be available to demonstrate the utility and possible benefits to participation in the Patient Registry.

### *iii. Project staff training*

Project staff obtaining the consent will receive training to ensure that they are aware of their responsibilities, are capable of answering all questions and are sensitive to the needs of the patients and any possible issues that may arise. Project staff, aside from the PI at each site, will be, in most cases, employed for activities surrounding research and will not necessarily be part of the patient's usual clinical team. This arrangement avoids patients feeling obligated to participate by virtue of a dependent relationship with a clinician. In any case, project staff will receive training to ensure that any potential pre-existing relationship does not unduly influence participation. Patients will be encouraged to discuss their participation with someone in whom they trust and it will be made clear to them that their relationships with their clinicians and healthcare team will be unaffected by their decision.

Training will be consistent with the principles outlined in the ICH guideline for Good Clinical Practice (Therapeutic Goods Administration 2016), Declaration of Helsinki (World Medical Association 2013) and the National Statement on Ethical Conduct in Human Research (NHMRC, Australian Research Council et al. 2007).

### *iv. Need for an Interpreter*

An ability to 'speak' either verbally, electronically or in a written form and understand English is required but we will provide interpreter services wherever possible and a proxy/translator will indicate that they believe the person has understood the content sufficiently to make a free and valid decision.

### *v. Consent process*

Prospective participants will be given sufficient time to read the information and to discuss any concerns they have prior to giving consent. It is important to note that they do not have to give their consent at the first appointment if they do not wish to. Clear information will be given that consent is voluntary, that if they don't it will not affect their care in any way and that they are free to withdraw at any time, noting the consideration that if their samples and data have already been used then that cannot be rescinded. A hard copy or electronic copy of the signed informed consent will be given to the participant. If completed in hard copy, the original signed form will be scanned and uploaded to the Registry.

The MiNDAUS Partnership has developed a Standard Operating Procedure for obtaining Informed Consent. (SOP-MG-01) which is a supporting document to this Framework.

### *vi. Confirming consent*

At each clinic visit, participant consent for participation in the MiNDAUS Clinical Registry will be verbally reconfirmed by the Coordinating project staff or their representative prior to commencing data collection.

The participant's consent for participating in the MiNDAUS Patient Registry is implied by their continuing use of the Registry.

### *vii. Terms of the consent*

Extended and unspecified consent will be sought according to the National Statement on Ethical Conduct in Human Research 2007 (updated 2023) (NHMRC, Australian Research Council et al. 2018) to;

- Hold self-report (SR) demographic data (self and family information), disease information and disease progression information as part of the Patient Registry.
- Undertake data collection and storage of clinical data collected during routine clinical visits

in the MiNDAUS framework as part of the Clinical registry.

- Sharing of de-identified self-report data and clinical data between MiNDAUS partners.
- Share de-identified patient self-report data and clinical data with potential sponsors of clinical trials for the purposes of inclusion.
- Share de-identified patient self-report data and clinical data to health and support agencies to understand incidence and unmet needs.
- Share data collected / stored and on-share datasets for the purposes of progressing new research aims and for replication / validation other research projects with appropriate ethical approval. This may include the sharing of data outside Australia subject to Australian regulations.
- Store clinical and self-reported data in perpetuity so that access to data may be granted to future projects.

**b) Data to be collected**

For a full list of data variables for both the MiNDAUS Patient Registry and the MiNDAUS Clinical Registry, please see the supporting document: MiNDAUS Registry Data Collection Variables.

Data on the MiNDAUS Patient Registry is patient driven. Patients, or their nominated caregiver, sign-up and enter data via a series of registry modules, covering the following demographic, health and medical, equipment and service utilization. Self-report data will include the following modules:

- Module 0: Demographics
- Module 1: Consents
- Module 2: My Legal Documents
- Module 3: My Recent Symptoms
- Module 4: My Journey
- Module 5: My Needs
- Module 6: My Calculators
- Module 7: My Care Team
- Module 9: My Appointments

The demographics and consent modules are mandatory and all subsequent modules are optional.

Participants in the MiNDAUS Patient Registry will be able to create a printable, shareable form from the data entered if they wish. It is foreseen that patients may use the form as a method of introducing themselves to a new healthcare provider, paid carer or in the circumstances of an admission to a health facility. A copy of this form, called 'About me and MND' can be found as a Supporting Document to this application.

Clinical data will pertain to the following sets of information:

1. Onset of disease
2. Family History
3. Medical History
4. Tests use to provide diagnosis.
5. Regions of the body affected by disease.
6. A functional rating scale – ALSFRS-R
7. Treatments
8. Service use
9. General questions about lifestyle such as smoking status and occupation.



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### c) Participant withdrawal

Study participants may be discontinued from the MiNDAUS Clinical Registry entirely according to predefined criteria for discontinuation. Additionally, a participant may be discontinued from a trial or substudy but remain in the MiNDAUS Clinical Registry.

Criteria for discontinuation from the MiNDAUS Clinical Registry entirely include:

- viii. The treating clinician considers continued participation is not in the best interests of the participant.
- ix. The participant or their Legal Representative requests withdrawal from ongoing participation.

In the case of discontinuation, the reason(s) for withdrawal will be documented. Following discontinuation, participants will be treated according to an appropriate standard of care by their treating clinician.

### d) Data collection techniques

In all possible cases, the data collected during the normal clinic visit, will be used to complete the data requirements for the MiNDAUS Clinical Registry, to avoid overly prolonging the time the patient needs to spend in clinic.

Data entry and data management will be coordinated by the MiNDAUS Operations Team, and the Coordinating Principal Investigator, Professor Steve Vucic, including accessing programming and data management support.

Site procedures to ensure data quality and protocol adherence include:

- Start-up meetings for all site coordinators and investigators will be held prior to study commencement to ensure consistency in procedures.
- Regular meetings will be held between all site project staff and the MiNDAUS Operations Team.
- A paper-based Case Report Form will be made available to all sites for reference, and as a backup strategy in the case of an inability to connect to the internet. Site staff will enter the data thus collected into the MiNDAUS Clinical Registry at their earliest convenience and organise the secure destruction of the paper document.
- Site induction will occur for each participating site before study initiation. This will include training of clinical staff and development and dissemination of Standard Operating Procedures.
- A detailed dictionary will define the data to be collected on the MiNDAUS Clinical Registry with the incorporation of data validation and prompts where appropriate.
- The data management centre will perform timely validation of data, queries and corrections if errors are found during quality control checks.

All project personnel will understand the importance for data security in accordance with NHMRC guidelines.(NHMRC, Australian Research Council et al. 2019)

### e) Enabling the collection of clinical data for people with MND who do not attend a participating clinic



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Members of our PLEx Advisory Group asked us to design a process by which people with MND who do not attend a participating clinic could contribute their clinical data. It was the opinion of these PLEx Advisors that otherwise, people with MND outside of a participating clinic would neither have the advantage of being stratified for potential research projects based on clinical parameters nor transparency over their clinical information and the ability to control and share it. Accordingly, we have made it possible, and optional, for a patient to download a relevant Case Report Form, eg, First Visit or Subsequent Visit, from the Registry and take it to their Specialist for completion. This form includes sections that can be completed by a Patient and/or their Carer on their behalf. Once the form is completed, the Patient saves it as a pdf and uploads it to the Registry. The Patient is asked to provide an email address for a person, such as their next of kin, who is prepared to be contacted once there has been no activity on the Registry for 12 months.

#### *1. Follow up and missing data*

Project personnel will perform regular and timely validation of data, queries and corrections. Any common patterns of errors found during quality control checks will be fed back to participating sites. Missing data will be minimized through a clear and comprehensive data dictionary with online data entry including logic checks.

#### *2. Co-enrolment with other trials*

Co-enrolment of participants in other studies, including interventional and therapeutic trials, is allowed. The principle is that co-enrolment should always be allowed except when there is a clear threat to the validity of either study, or it would materially influence the risk to participants. Decisions regarding co-enrolment with other trials will be made on a trial-by-trial basis. The decision regarding co-enrolment will lie with the MiNDAUS Leadership Group. Decisions regarding co-enrolment with other trials will be distributed to participating sites as an operational document and will not require or involve amendment of this protocol.

#### *3. Cooperation between the MiNDAUS Clinical Registry and other trials with overlapping populations or interventions*

During the lifetime of the resource there will be other studies that will have inclusion and exclusion criteria which include participants who are eligible for the MiNDAUS Clinical Registry. The MiNDAUS Leadership Group seeks to cooperate and coordinate maximally with other studies in accordance with NHMRC guidelines (NHMRC 2018). Examples of such cooperation and coordination would include, but not be limited to, utilisation of MiNDAUS Clinical Registry infrastructure for screening and enrolment to other studies and sharing of data and biospecimens collected. In this case, access to the data would be granted by the MiNDAUS Leadership Group and mediated by the MiNDAUS Data Operations Manager acting as data custodian.

#### *4. Linkage to external data set held by the Sporadic ALS Australia Systems Genomics Consortium (SALSA-SCG)*

The MiNDAUS Clinical Registry will link to the (SALSA-SCG) dataset and this linkage will be consented to specifically by the patient at registration or enrolment.

#### *5. Linkage to other external datasets*

The MiNDAUS Clinical Registry may seek to access external resources such as personal



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information held by other parties to enrich the core data sets, eg GP records or data from the Medicare Benefits Schedule (MBS) and the Pharmaceutical Benefits Scheme (PBS). The consent requested anticipates this and any data brought in from external resources will be managed under the spirit of the consent outlined for the MiNDAUS Clinical Registry. That is, data will be managed in such a way that a participant's privacy and confidentiality will be maintained at all times. It will be likely that bringing in such data will be governed by external ethical review such as is provided by the AIHW for access to federal health information.

#### f) Data Management Policy

The MiNDAUS Patient and Clinical Registries have been developed and created using the Trial Ready Registry Format (TRRF), under the supervision of Professor Matthew Bellgard at Queensland University of Technology.

TRRF is a modern, highly secure framework with a fully configurable permissions layer. The framework offers state of the art security features incorporated in every aspect from the programming language used, the design of the software, the security of access, and the way it is stored. In order to provide the highest level of privacy protection, all traffic to and from the platform is encrypted, and any identifying data is kept in a separate area to clinical or self-reported data.

The MiNDAUS Patient and Clinical Registries will be hosted on Amazon Web Services (AWS) Australian based servers and will be protected by AWS advanced security measures in addition to the securities inherent in the software itself and the security policies adopted by the MiNDAUS Partnership.

AWS is a trusted provider of hosting services by the Australian Federal Government (Australian Cyber Security Centre 2019)

## Supporting documents

This Framework document is supported by the following documents:

MiNDAUS Registry Data Collection Variables V 1.1

MiNDAUS Privacy Policy, Version 1.2, dated Sep 2025

MiNDAUS Registry Case Report Form, (FV,SV,CF)

Version 03, dated July 2023 MiNDAUS About me and

MND Registry Form V 2.0 MiNDAUS About Me and

MND General Form V 1.1

MiNDAUS Standard Operating Procedure Informed Consent V 1.0

MiNDAUS Clinical Sites Details Version 1.2, dated Aug 2025

MiNDAUS Master Participant Information Sheet/Consent Form- Clinical Reg National, Version 1.4, dated 25 Sep 2025

# Appendix A

## MiNDAUS founding partners

**Professor Matthew Kiernan**, Brain and Mind Centre, University of Sydney

**Professor Naomi Wray**, Queensland Brain Institute, University of Queensland

**Assoc Professor Paul Talman**, Barwon Health Victoria; Monash University, Melbourne

**Professor Steve Vucic**, Westmead Hospital, Sydney

**Dr Susan Mathers**, Calvary Health Care Bethlehem; Monash University, Melbourne

**Assoc Professor Robert Henderson**, Royal Brisbane and Women's Hospital; University of Queensland

**Professor Matthew Bellgard**, Queensland University of Technology

**Professor Samar Aoun**, Latrobe University, Victoria; Perron Institute, Western Australia.

**Professor Julian Savulescu**, University of Oxford; Murdoch Children's Research Institute; University of Melbourne

**Professor Dominic Rowe**, Macquarie University; Macquarie University Hospital

**Carol Birks**, MND Association of Australia

**Gethin Thomas**, MND Research Australia

**MND Research Australia**

**Professor Ian Blair**, Macquarie University, NSW

**Geoff Thomas OAM**, Thomas MND Research Group, South Australia

**Catherine Hansen, RN**, Thomas MND Research Group, South Australia

**Dr Anne Hogden**, University of Tasmania

**Professor Merrilee Needham**, Fiona Stanley Hospital, Murdoch University; Notre Dame University Western Australia

**Assoc Professor David Schultz**, Flinders Medical Centre, South Australia

**Dr Tina Soulis**, Neuroscience Trials Australia

**Sr Margie Zoing**, Brain and Mind Centre, University of Sydney

**Jane Milne**, MND and Me Foundation, Queensland

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## Version Control

Document History	
Version	Summary of changes
1.0	N/A First issue
1.1	Addition of new sites and personnel Insertion of updated Governance Framework diagram and personnel in Committees Removal of Appendix B Insertion of version control table Insertion of new footer table with version information
1.2	Addition of the process for collection of clinical data for people with MND who do not attend a participating clinic.
1.3	Updated Sponsorship to MND Australia Updated governance framework, added new diagram.
1.4	Change of Coordinating Principal Investigator

