Giving Access
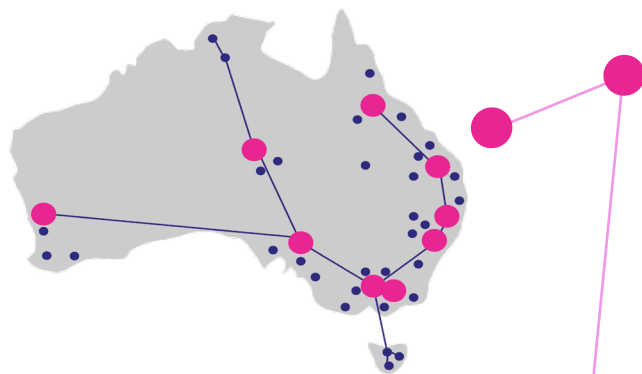
Close to a quarter of a million people in Australia live with epilepsy. The associated costs are estimated to be ~$12.3* billion a year.

Current care is characterised by uncertainty, with few patients having access to Australia's world leading expertise and solutions; at present locked in research and a small number of specialist centres.

The **Australian Epilepsy Project (AEP)** is a multi-year study and platform business model for brain health and research translation.

A national network of specialist hubs will give access to world leading testing, and together with integrated and predictive analysis across advanced imaging, genetics and cognition, the AEP will help to transform the diagnosis and treatment of epilepsy for thousands for Australians.

AUSTRALIAN EPILEPSY PROJECT
CHANGING LIVES | SUPERCHARGING MEDTECH

Changing Lives

Amanda's Story

I started having seizures at the age of 23. My seizures got worse, at times occurring daily. I once received third-degree burns from a seizure while cooking. By age 30, I felt completely isolated.

I spent seven years on medication that didn't work. I'll never get that time back.

I eventually found my way to advanced MRI testing, similar to what is being offered as part of the AEP, where it was discovered I had scar tissue on my right temporal lobe caused by encephalitis as a baby.

I finally had a precise diagnosis, and I could act.

Twelve years after surgery I have regained my quality of life and I'm now a Lived Experience Ambassador and Participant Lead at the AEP.

The AEP provides benefit to Australians living with epilepsy from day one.

The AEP Report provides decision support for referring clinicians, by presenting the key findings and interpretations from integrated testing across advanced imaging, neuropsychology and genetics, and also includes a clinical radiologist report.

Each persons' curated data set then contributes to big data, research, and precision medicine in epilepsy, which will enable the AEP Report to continue to evolve and become more personalised over time.

Genetics Analysis

Advanced MRI Investigation

Clinical History and Follow-up

Telehealth Cognitive and Psychology Measures

AEP Report

> " *I found that about 10% of my referrals that were MRI negative have come back MRI positive through the AEP, so this has been very helpful.* "
>
> Referring Clinician

Supercharging MedTech

*Deloitte, The economic burden of epilepsy in Australia 2019-20

Refer my Patient

AUSTRALIAN EPILEPSY PROJECT
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AEP Hubs in Victoria, South Australia, New South Wales and Queensland are open for referrals.

Refer your patient via the website: epilepsyproject.org.au

AEP

Referrals can be made via the website: **epilepsyproject.org.au**

I was very impressed with the staff in MRI, and I enjoyed doing the cognitive testing from home. I would, without a doubt, recommend this project 10/10.

AEP Study Participant

Patient Eligibility

Referrals to the AEP must be made through a neurologist, with patients meeting one of three clinical categories as part of the inclusion criteria:

1. **First Unprovoked Seizure - within the last six months**
   Definite or probable; with no diagnosis of epilepsy.

2. **New Diagnosis of Epilepsy - within the last six months and at least one seizure**
   Generalised or focal; untreated or treated with anti-seizure medication (ASM) for less than six months.

3. **Pharmacoresistant Focal Epilepsy - at least one seizure within the last six months**
   At least two adequate trials of ASMs have failed due to lack of efficacy (inclusive of previous and current ASMs). Currently taking at least one ASM.

- Patients must be aged 18 - 67 yrs and have capacity to consent
- A current Medicare number

- Be able to safely undergo MRI scanning
- Have no history of developmental or epileptic encephalopathy (DEE)

- Can participate in follow-up phone calls and surveys over a 24-month period

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Cost Commitment for Study Participants:

There are no costs associated with participating in the AEP Study, nor will participants be paid. Reimbursement is available for costs incurred including: reasonable travel costs, and parking (if not provided).

Time Commitment for Study Participants:

| Advanced Imaging Scan ~90 mins | Online Surveys ~30 mins | Telehealth Cognitive Testing ~120 mins | Medical History Interview ~20 mins | Saliva sample ~10 mins | Follow-up at 6, 12 + 24 mths ~30 mins |

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epilepsyproject.org.au