



Queensland
Aphasia
Research
Centre

Queensland Aphasia Research Centre (QARC)

A research centre of the



**STARS Education and
Research Alliance**

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Aphasia
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Queensland Aphasia Research Centre (QARC)

Professor Dave Copland
The University of Queensland

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Acknowledgement of Country

The University of Queensland (UQ) acknowledges the Traditional Owners and their custodianship of the lands on which we meet.

We pay our respects to their Ancestors and their descendants, who continue cultural and spiritual connections to Country.



Welcome!



Today

Introduction to Queensland Aphasia Research Centre

Our Research and Activities

Opportunity to:

- Find out more about our research and activities
- ask questions and meet the team
- find out how to get involved

- Bathrooms
- Fire and evacuation
- Afternoon Tea





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Partnership



A UQ-Metro North partnership

The centre operates in partnership with Metro North Health and the Surgical, Treatment and Rehabilitation Service (STARS) Education and Research Alliance

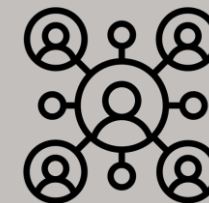
Funding



Philanthropic + UQ +Metro North

Philanthropic funding from the Bowness Family Foundation and Anonymous Donor
UQ funding
Metro North Funding of CHAT Clinicians
Local and National Research Funding

Reach



Queensland

Centre operations will support people with aphasia, family, and professionals throughout Queensland.

Our Purpose

We work in partnership with the community, health services and key organisations to:

- Increase our understanding of aphasia
- Improve outcomes
- Provide better access to services, support and information
- Advocate the right to communicate



Progress



502

People accessing services



248

Research publications



2369

Research participants



715

Students receiving education and training



4531

Therapy hours delivered by partners and QARC



79

Clinician/researcher engagement opportunities



54

Consumer engagement opportunities



81

Collaborating organisations

Co-design of aphasia services



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Specifically, we wanted to:

Learn about experiences of aphasia care. For example,



What worked well?



What did not work well?



Ideas about how aphasia care could be improved?





Those involved

Participants



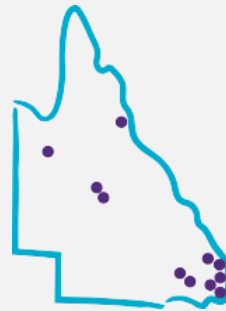
41 People with aphasia



35 Significant others



75 Speech pathologists



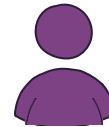
26 Hospital and health services
Remote and Metropolitan areas



Needs could be met by:

1. Training health professionals in how to support communication.
2. Improving hospital environments (e.g. having quiet spaces and entertainment options for people with aphasia).
3. Increasing service availability in rural areas.
4. Having more psychological services and peer support options for people with aphasia.

Priorities for service design



**People with
aphasia**

Education to support people with aphasia to understand their care management (e.g. medications)



**Significant
others**

More psychological services available for people with aphasia





Common touchpoints

1. Greater **access to clinical supervision**
2. **Better coordination & interdisciplinary care to increase therapy time**
3. **Psychological services** able to support diverse communication needs

Priorities for service design



Metropolitan

Dedicated **aphasia speech pathologist** staffing



Regional

Improved **referral pathways** and **service linkage**



Remote

Education to support care transitions



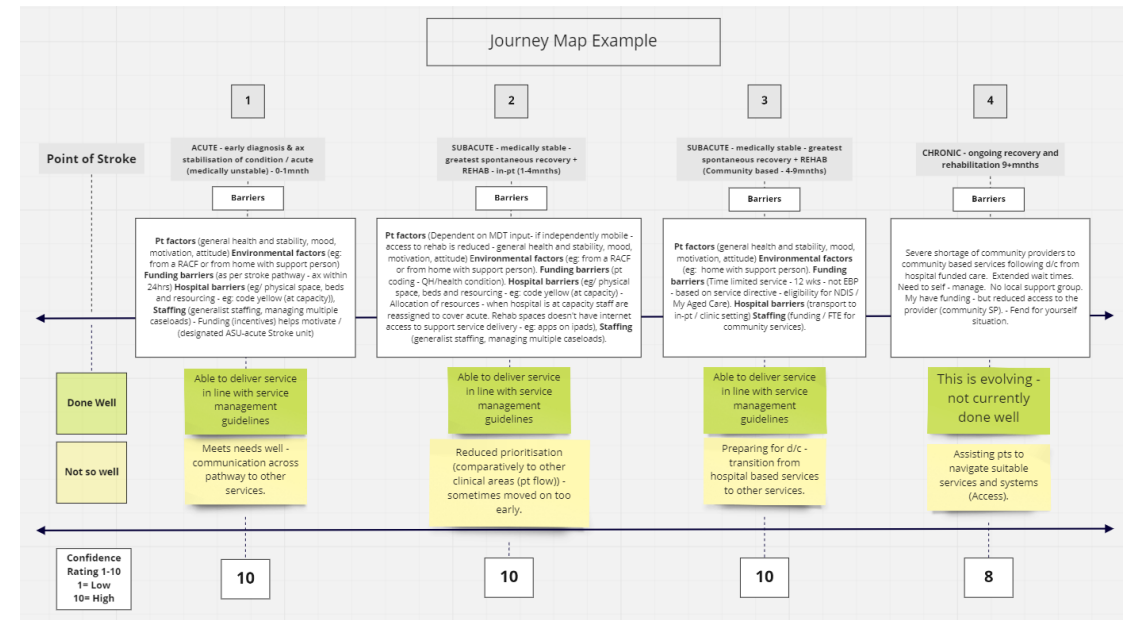


Mapping health care services

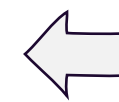
Mapping steps:

- Identify key stages along journey of care
- Barriers at each stage
- What is done well / not well at each stage
- Confidence of team at each stage

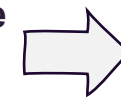
Example



First access service



Continuum of care for healthcare service



No longer accessing services



Top Priorities



1. Aphasia alerts in medical charts / engaging hospital environments.



2. Training for healthcare providers in how to support communication.



3. Therapy and care management that is tailored to the individual.



4. Having a consistent member of the healthcare team.



5. Better and equitable access to aphasia services.



6. Longer-term intensive communication therapy options.



7. Mental health service options for people with aphasia.

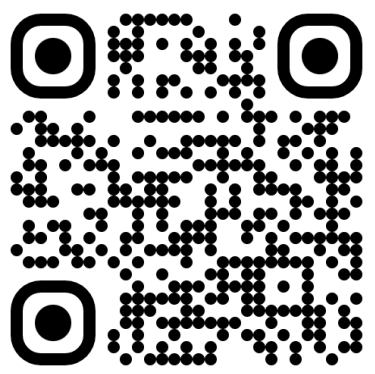


More information

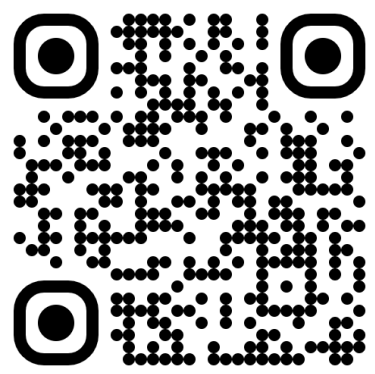
Video abstracts

(designed by, for, and with people with aphasia)

Experiences

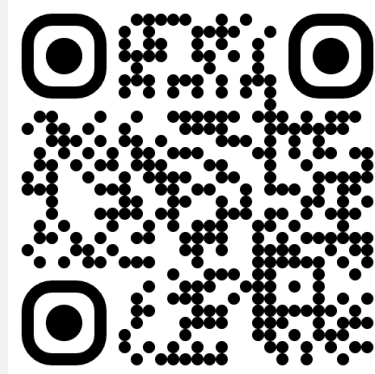


People with aphasia



Speech pathologists

Top priorities



Top priorities

"...just seeing the change or the hope grow in both the client and the family when you can give them the tools to communicate with each other." (Speech Pathologist)

"You know when you think about it she wouldn't be able to just pick up the phone and ring lifeline"
(Significant other)

"...you can't express how I feel for that hospital ... Honestly, they're amazing.
"I- I- I- I appreciate life a little more"
(Person with aphasia)

The CHAT Program



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Jade Dignam, Penni Burfein, Jessica Campbell, Adele Coleman, Caitlin Fraser, Jessica Hickey, Annie Hill, Kate O'Brien, Emma O'Neill, Katherine Roxas, Kylie Short, Kirstine Shrubsole, Renee Stuckey, Hannah Wedley, Kana Appadurai, David Copland.

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Centre of Research
Excellence in Aphasia
Recovery and Rehabilitation



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Comprehensive, High-dose Aphasia Treatment



Individual Therapy



Education



Impairment Therapy



Group Therapy



Computer Therapy



Activity / Participation
Therapy

High-dose therapy

Week 1				
M	T	W	T	F
✓		✓		✓

Week 2				
M	T	W	T	F
✓		✓		✓

Week 3				
M	T	W	T	F
✓		✓		✓

Week 4				
M	T	W	T	F
✓		✓		✓

Week 5				
M	T	W	T	F
✓		✓		✓

Week 6				
M	T	W	T	F
✓		✓		✓

Week 7				
M	T	W	T	F
✓		✓		✓

Week 8				
M	T	W	T	F
✓		✓		✓

50 hours therapy

7 hours per week for 7-8 weeks

CHAT in STARS Research Project

- CHAT was implemented at the **Surgical, Treatment and Rehabilitation Service**, or STARS, in Brisbane (2021 to 2023).
- Therapy delivered by 2.0 FTE STARS speech pathologists supported by the MDT.
- 67 Participants consented to the study and 65 participants completed CHAT



Results



Language Impairment



Confidence



Communication
Activity / Participation



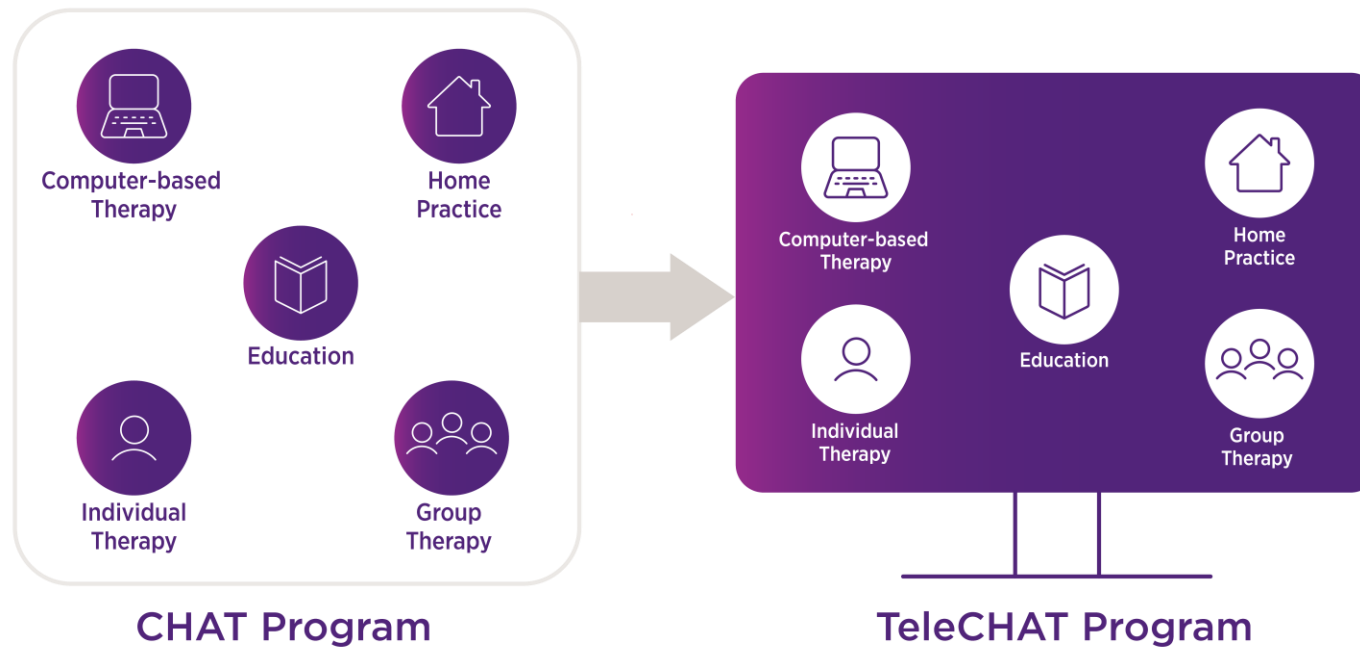
Quality of Life

“We now can just do more and more... and I can do a lot more of my life that would never of happened”



TeleCHAT

- The CHAT program was systematically translated for delivery via Zoom using a Human Centred Design process (Vuong et al., 2023).



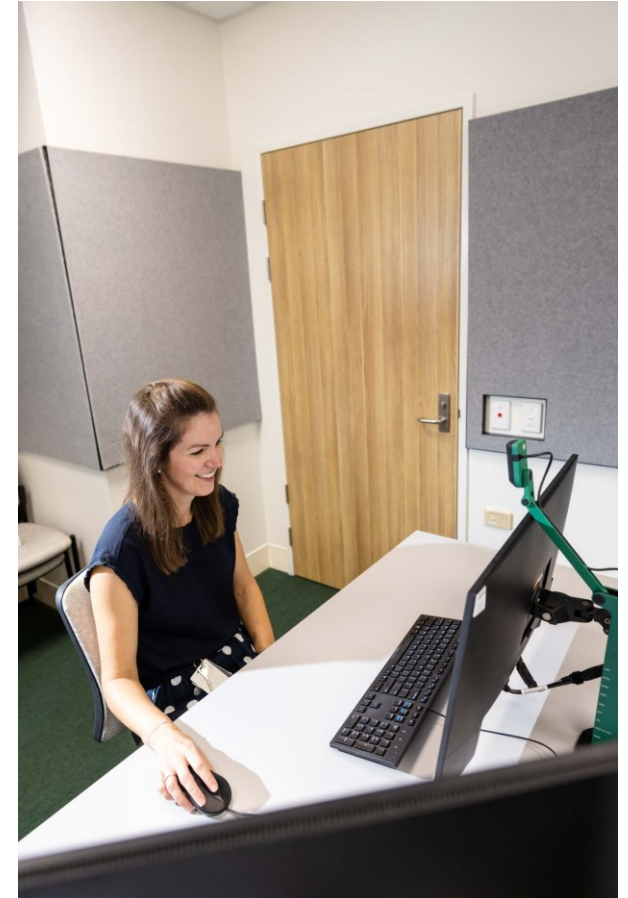
TeleCHAT

- TeleCHAT was piloted with 24 people with aphasia.
- TeleCHAT was found to be feasible, usable and acceptable to people with aphasia (Vuong et al., 2024, PhD Thesis).
- Significant improvements in participants language, communication, confidence and quality of life were observed (Hill et al., 2024).



CHAT-Maintain

- A 6-month, technology-enabled, home therapy program.
- Participants trained in the use of technology. Speech pathologists made regular support phone-calls.
- 22 participants consented and 16 participants completed the program.
- Gains in communication effectiveness and confidence were maintained at 6-months.



CHAT Partnership Project

- We are conducting a Phase III hybrid implementation and effectiveness study to evaluate CHAT in hospitals across Australia (NHMRC APP1191820).
- This study aims to compare the effectiveness of CHAT with usual care.
- Usual care data collection is underway, and CHAT implementation will commence early in 2025.





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Measuring and monitoring aphasia services

Funded by: Medical Research Future Fund (MRFF) 2021 Cardiovascular
Grant Opportunity (MRF2016134).

Project lead: A/Prof Sarah Wallace

Project title: The Right Treatment for the Right Person at the Right Time. Driving
High-Value Aphasia Care through Meaningful Health System Monitoring.

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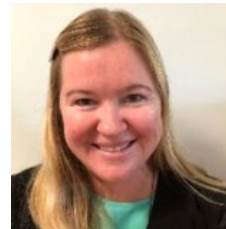


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Aphasia Measures team





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Do Australian aphasia services
reflect evidence-based standards?



Do aphasia services produce
outcomes that are meaningful to
people with aphasia?



In Australia, stroke and rehabilitation data is collected:

- Australian Stroke Clinical Registry (AuSCR)
- Australasia Rehabilitation Outcomes Centre (AROC)
- Stroke Foundation Acute and Rehabilitation Audits

But not much much data about aphasia care or outcomes



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Project aim

Use real-world data to understand and improve aphasia care and outcomes.



Aphasia minimum dataset

Sociodemographic data

Patient age
Patient years of education
Patient sex at birth
Language of treatment and testing
Primary language
Language status
History of condition impacting communication or cognition
History of previous stroke
Lesion hemisphere
Date of aphasia onset
Co-morbidities

Process of care data

A screener and/or assessment is completed to determine if communication impairment (including aphasia) is present.
A valid and reliable standardised assessment is conducted to determine the severity of aphasia.
Information about aphasia is provided to the person with aphasia.
Information about aphasia is provided to the person with aphasia's significant other(s).
Information about support is provided to the person with aphasia's significant other(s).
The primary communication partner of the person with aphasia is provided with communication partner training.
Individualised recommendations for communicating with the person with aphasia are provided to the treating team.
There is training for staff in supported communication for aphasia.
Goal setting is undertaken in partnership with the person with aphasia and their significant others.
The person with aphasia receives person/family centred care.
The person with aphasia receives speech and language therapy.

Treatment descriptors

Number and duration of treatment sessions
Setting
Intervention type
Therapeutic approach
Treatment target
Delivery mode

Outcome measures


Western Aphasia Battery – Revised (WAB-R)
The Scenario Test
Stroke and Aphasia Quality of Life scale (SAQoL-39g)
General Health Questionnaire (GHQ-12)
Patient- and clinician-rated anchor scales (post treatment only)

Research advisory group

3 people with aphasia
2 family members
2 clinicians

MEASUREMENT TOOL

What to measure in aphasia clinical care




STUDY 1

Pilot the MEASuRES minimum dataset

Multi-centre observational study

200 people with aphasia
5 health services

Data collection February – December 2024



STUDY 2

Evaluate the process of piloting the dataset

Mixed-methods process evaluation


Study 1 participants & health service clinicians

Data collection September – December 2024

These studies will evaluate the use of the MEASuRES minimum dataset in clinical practice

ANALYSIS TOOL

How to interpret treatment success




STUDY 3

Determine thresholds of meaningful change

Different for everyone
Small continuous improvements
Progress towards personal goals
Influenced by personal factors

Early recovery phase
Slightly improved
Chronic phase
No consensus



STUDY 4

Establish Minimal Important Change values

Integration of aphasia outcomes and patient perspectives from Study 1 & Study 3

Analysis to be conducted at the completion of Study 1 & Study 3 data collection

These studies will establish Minimal Important Change values for core aphasia outcome measurement instruments

>70 clinicians

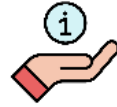
13 hospitals across 5 health services

11 QUALITY INDICATORS FOR POST STROKE APHASIA SERVICES

A screener and/or assessment is completed to determine if communication impairment (including aphasia) is present.



Information about aphasia is provided to the person with aphasia's significant other(s).



Information about support is provided to the person with aphasia's significant other(s).

Goal setting is undertaken in partnership with the person with aphasia and their significant others.



The person with aphasia receives speech and language therapy.



Individualised recommendations for communicating with the person with aphasia are provided to the treating team.



A valid and reliable standardised assessment is conducted to determine the severity of aphasia.



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The primary communication partner of the person with aphasia is provided with communication partner training.



The person with aphasia receives person/family centred care.

There is training for staff in supported communication for aphasia.



<https://doi.org/10.1111/hex.14173>

Benchmarks of clinically meaningful changes in aphasia recovery



Longterm outcomes after stroke for people with communication support needs



Protocol for a minimum dataset pilot study in Australian health services





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The establishment of QARC has been made possible by generous donations from the Bowness Family Foundation and an anonymous donor.

Aphasia Fit: Supporting and Motivating People with Aphasia to Manage their own Aphasia Treatment

Associate Professor Sarah Wallace

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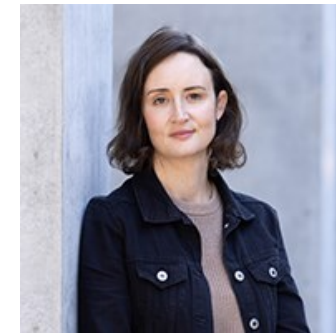
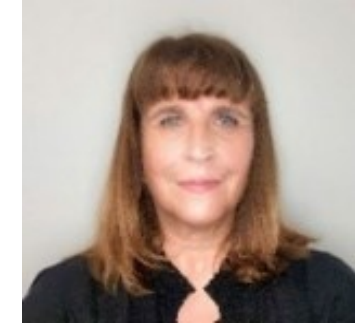
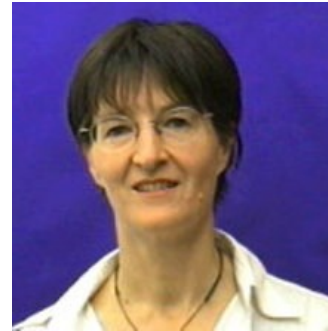
CREATE CHANGE

Metro North Health



Queensland Government

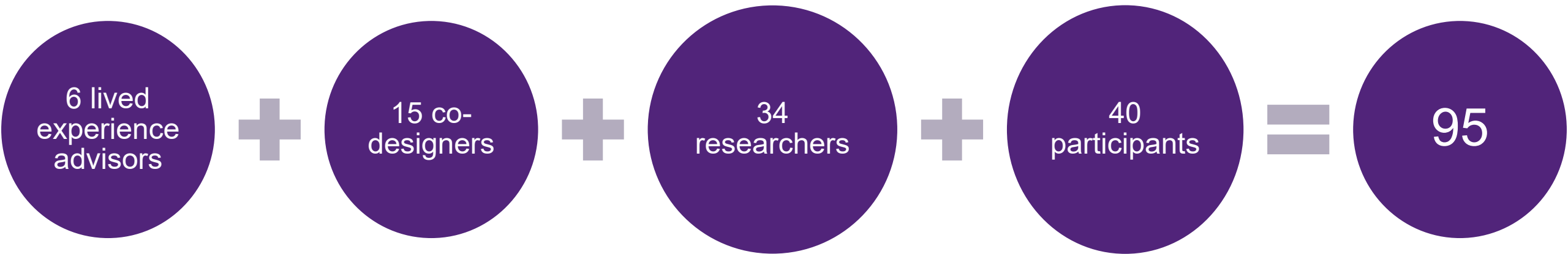
The Research Team





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The Team (n=95 and counting)





You can see
how far
you've
walked...
but language
is hard to
see.

If you can't
see progress,
are you going
to be
motivated to
do therapy?



And how do
you really
track progress
when
someone is
back at home?



We wanted....



to support **access** to therapy from home.



to **motivate** people with aphasia to do more therapy.



Airbnb

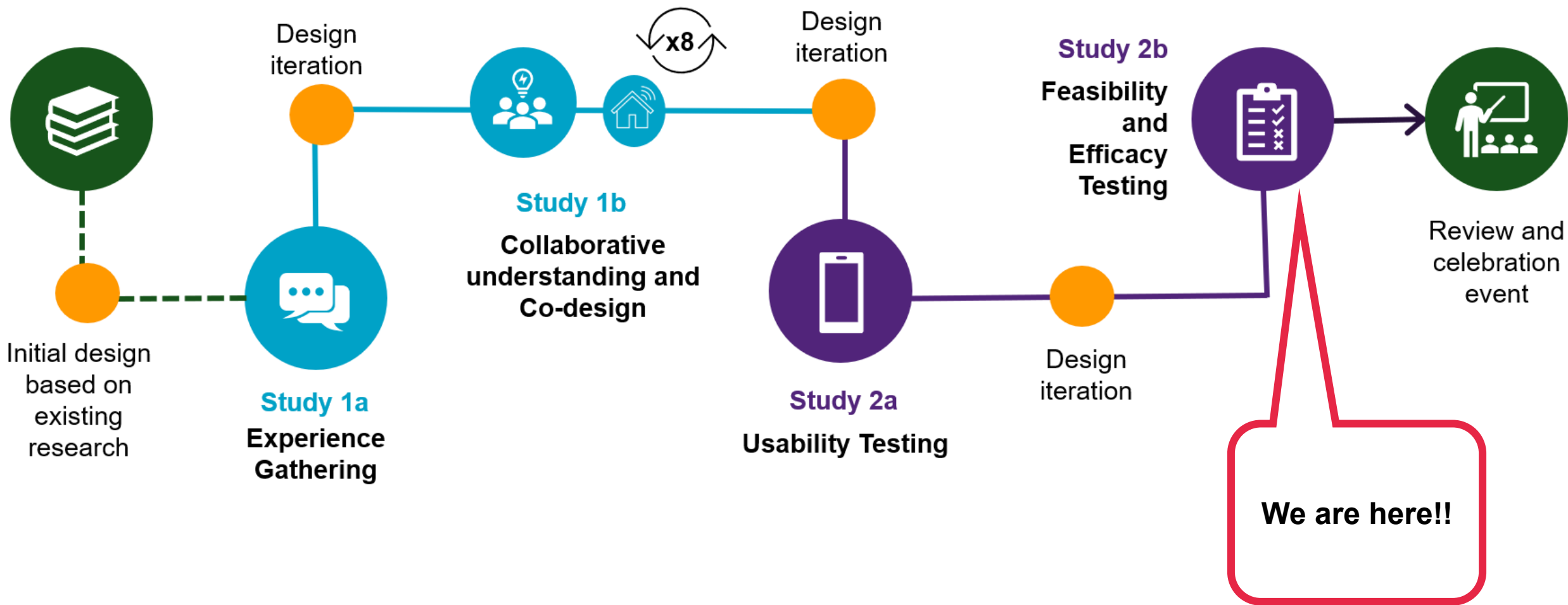


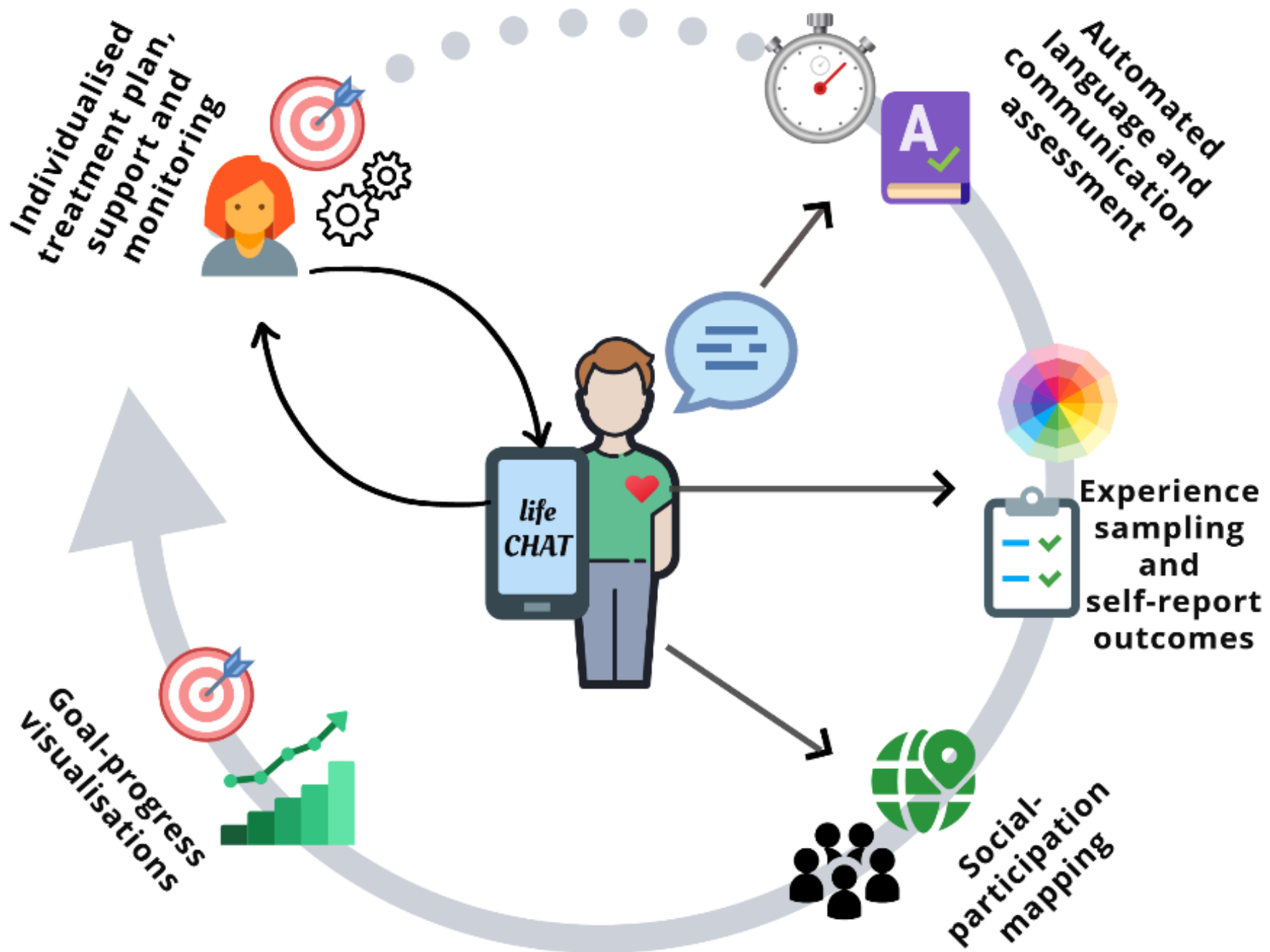
AphasiaFit



Assistant

...by developing **an App** that can measure aphasia progress.







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Funding



Measuring, Monitoring, and Motivating Adherence to Self-Managed Aphasia Treatment (MRF2007460). MRFF 2020 Cardiovascular Health Grant Opportunity



Sarah Wallace is supported by a National Health and Medical Research Council Emerging Leadership Investigator Grant (1175821)

Thank you

A/Prof Sarah Wallace



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Bridging the Digital Divide

Building health self-efficacy through
communication-accessible online environments

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Aphasia and using the web

- Many **essential services** are now accessed **online**.
- People with aphasia are more likely to **feel excluded** from using the web.



Project aims

- To make **software** that will help people with aphasia **access** the **web**.
- We will focus on:



Accessing
healthcare

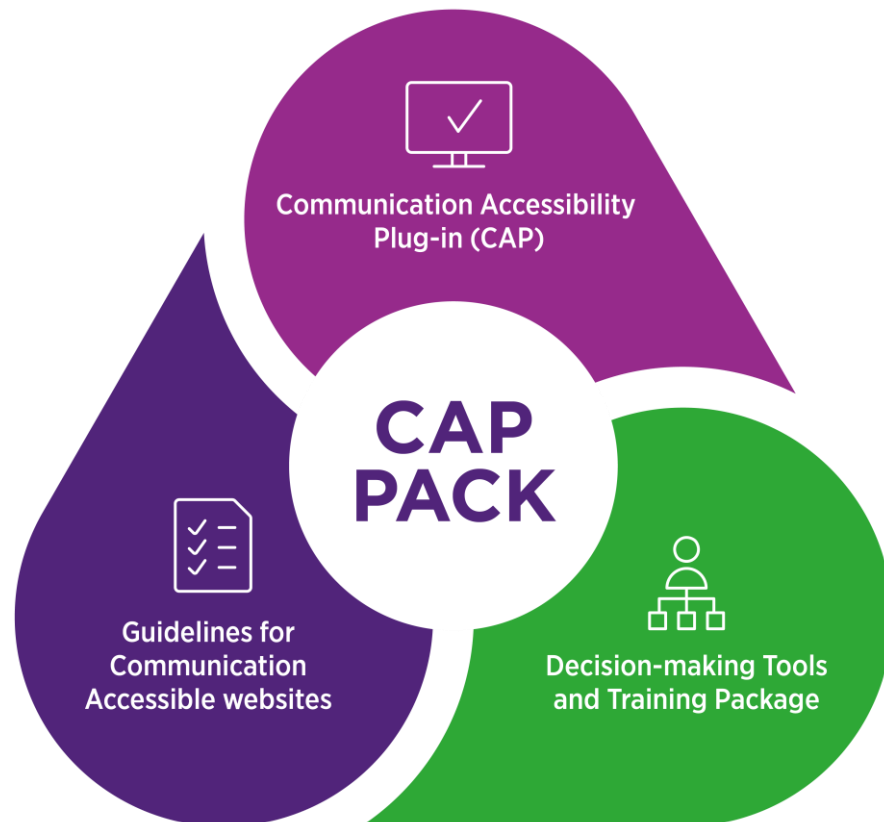


Finding
information



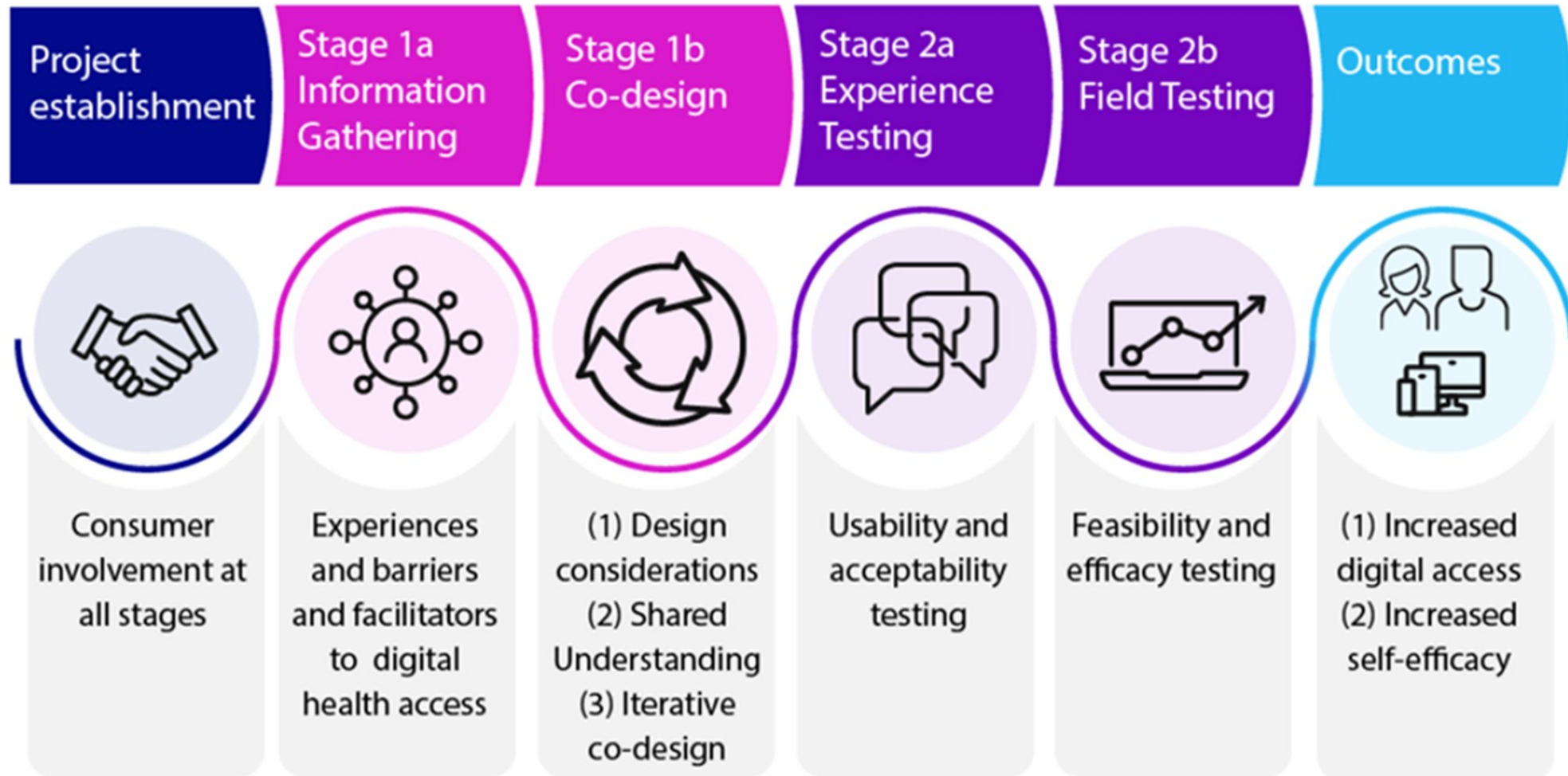
Finding
support

What will we co-design?



1. **Plug-In** (or browser extension)
2. **Decision making tools** and a **training package**
3. **Guidelines** for making websites accessible

Project Design



Research team



Research Team

- Sarah Wallace
- Peter Worthy
- David Copland
- Phill Jamieson
- Kim Barron
- Leanne Togher
- Kirstine Shrubsole
- Ciara Shiggins
- Sonia Brownsett
- Annie Hill
- Janet Wiles
- Alex Haslam
- Scott Hollier
- Jennifer Lee
- Ryan Deslandes
- Bridget Burton

Research Partners

- Australian Aphasia Association
- Australian Disability Network
- Centre for Accessibility Australia
- National Disability Insurance Agency
- Services Australia
- Stroke Foundation

Contact us



digitaldivide@uq.edu.au



(07) 3365 7595

Scan for more information





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Neurobiological predictors

Dr Sonia Brownsett

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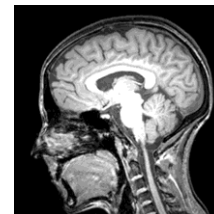
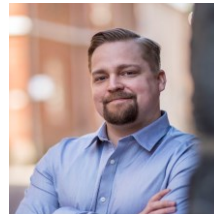
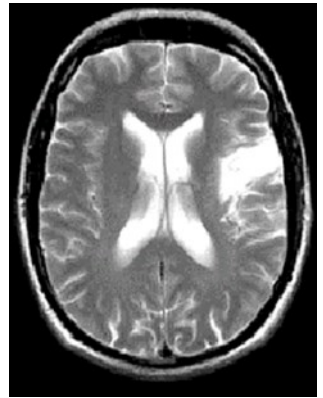
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Neurobiological predictors

Dr Sonia Brownsett





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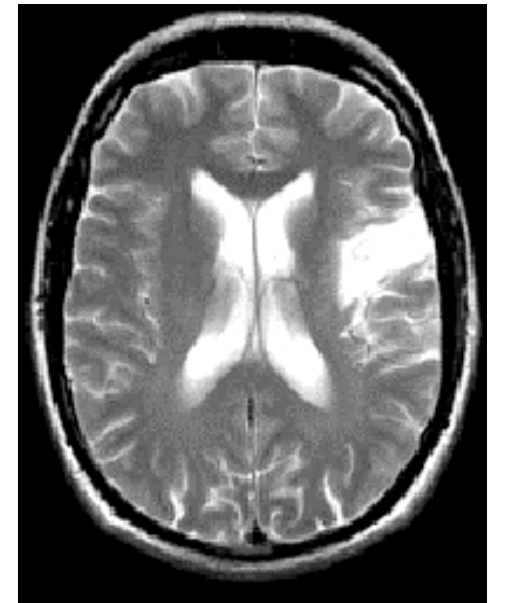
Why?

Identify language networks

Understand how non-language networks support recovery?

Understand biomarkers of differences observed in aphasia?

To identify more reliable predictors of recovery?





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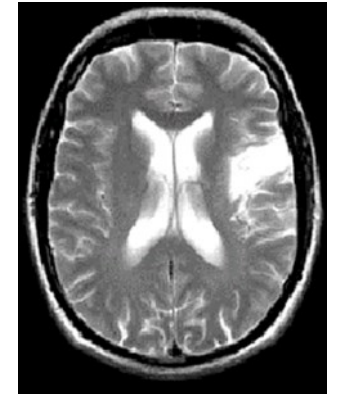
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What do we do?



We measure and compare:

- Activation and electrical activity in healthy brains.
- Lesion size and location after stroke
- Impact of damage to cortex, subcortex and neural networks
- Does blood flow change over time and does this relate to outcomes?
- Does premorbid brain health impact recovery trajectories?
- Longitudinal changes





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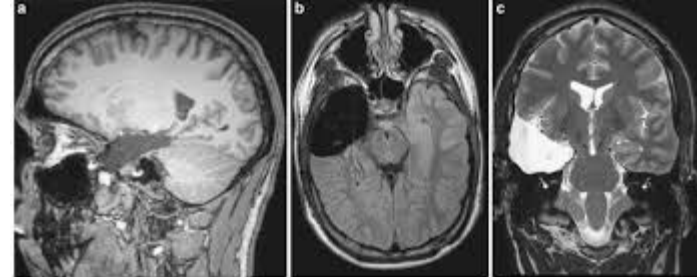
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How?



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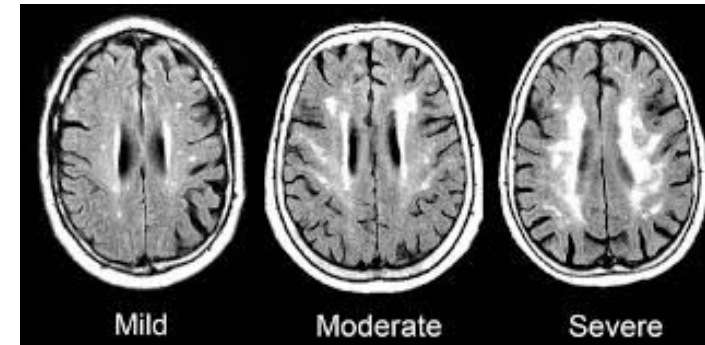
MRI: lesion location and size





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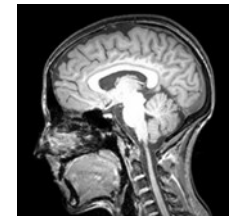
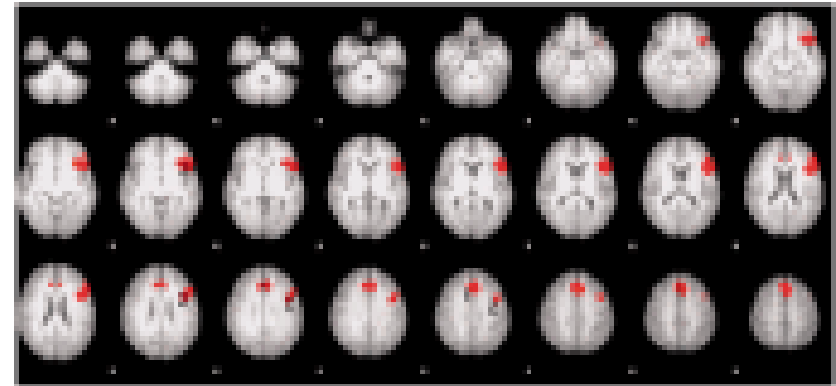
MRI: brain frailty- small vessel disease





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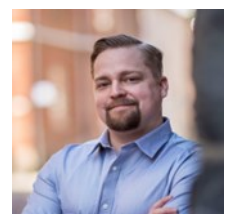
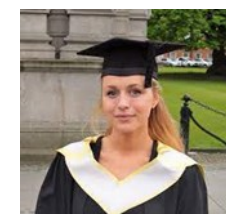
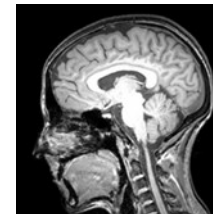
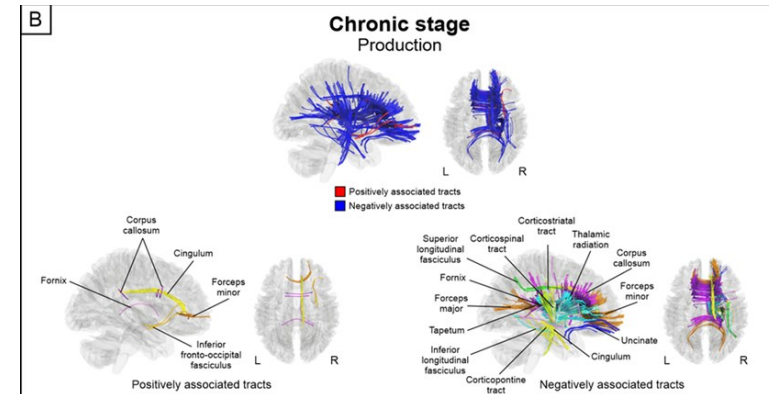
functional MRI: how we use the brain





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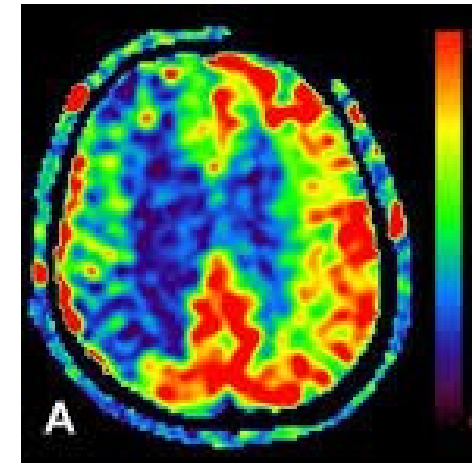
Diffusion imaging: white matter integrity





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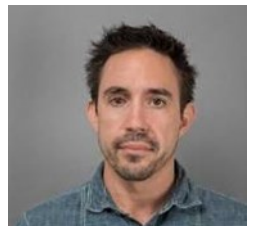
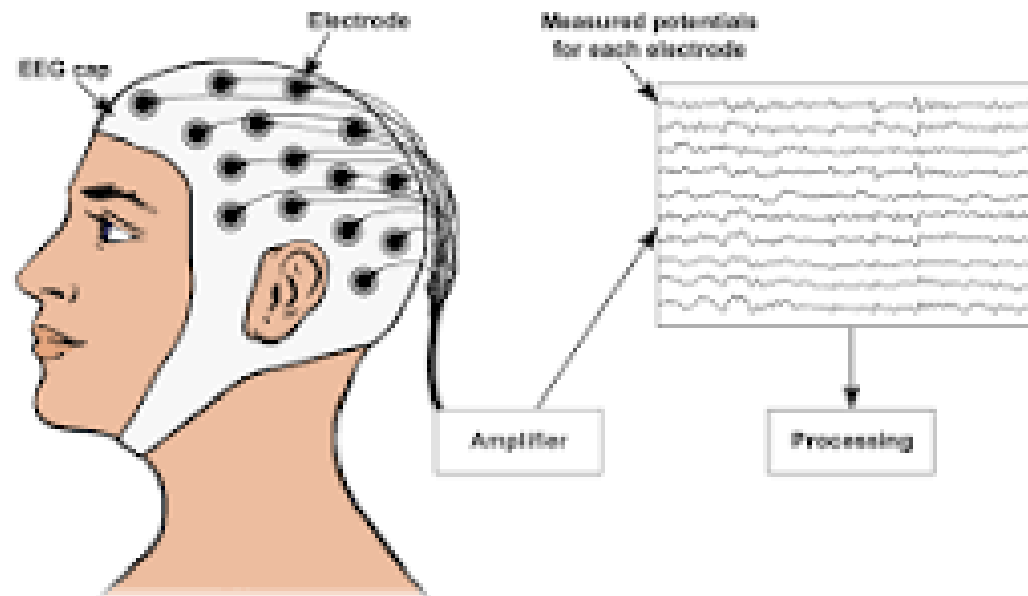
Perfusion imaging: Perilesional blood flow





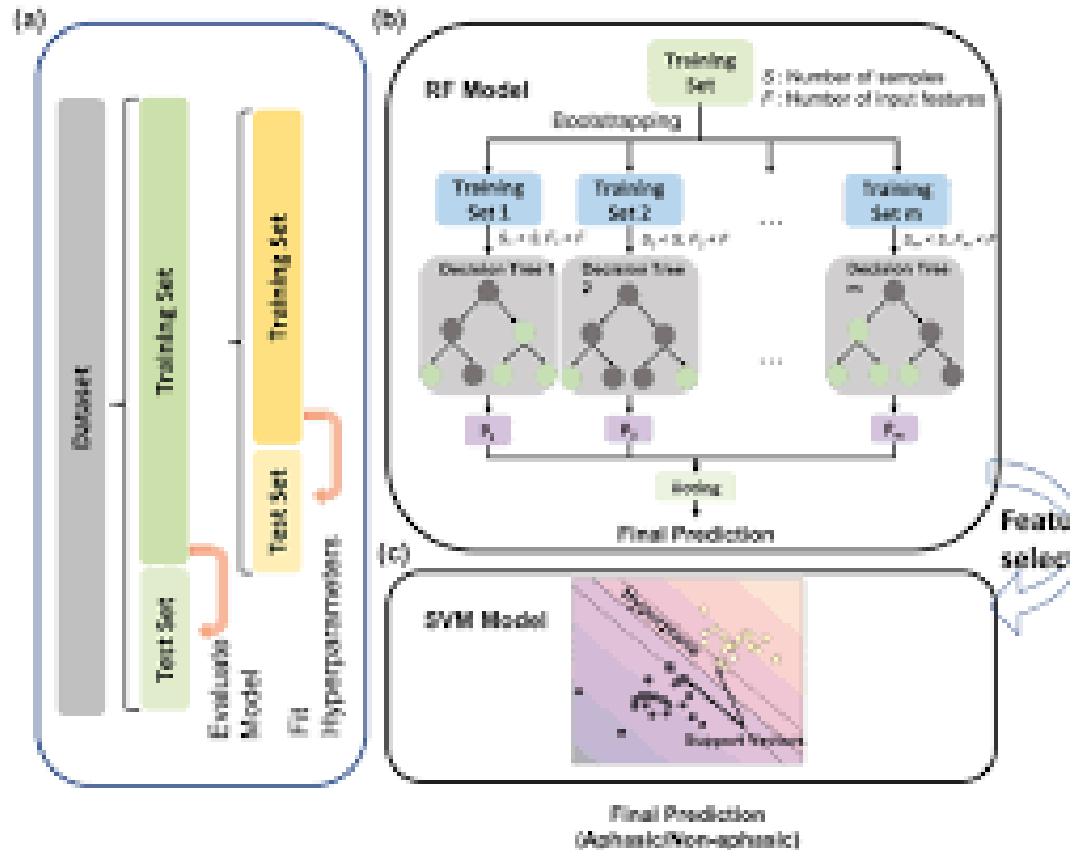
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Electroencephalogram (EEG) electrical activity in the brain





Machine learning: outcome prediction





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Contact us

Come and visit us to find out more

Thank You



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Non-stroke aphasia

Dr Sonia Brownsett

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Non stroke aphasia

Dr Sonia Brownsett





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Why?

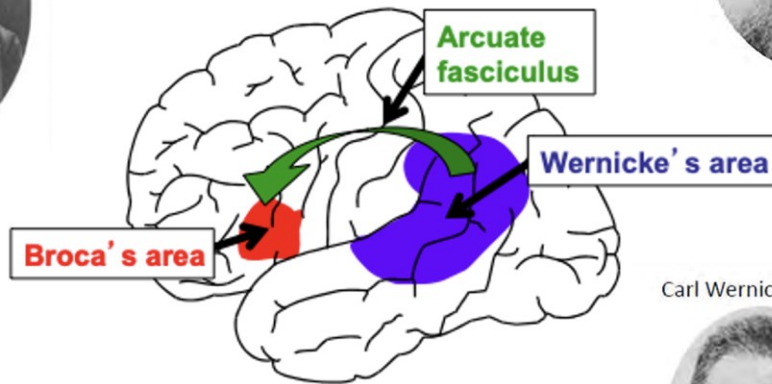


Non stroke Aphasia

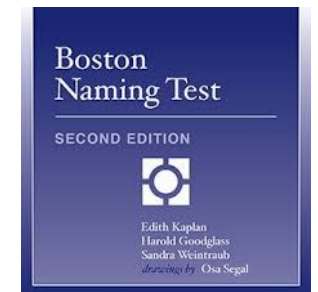
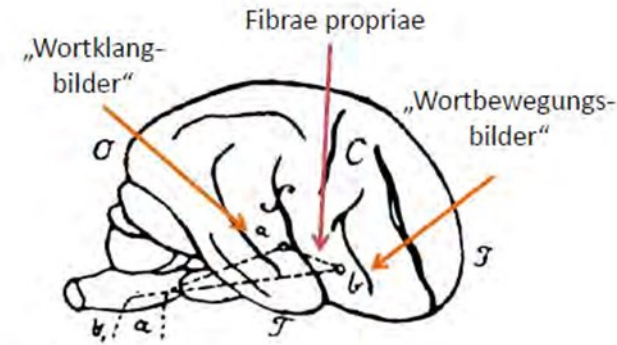
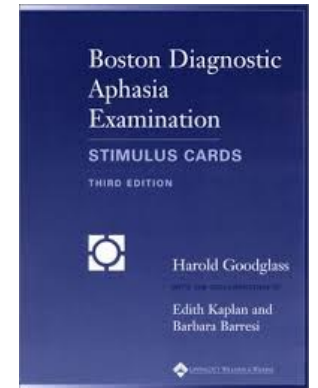
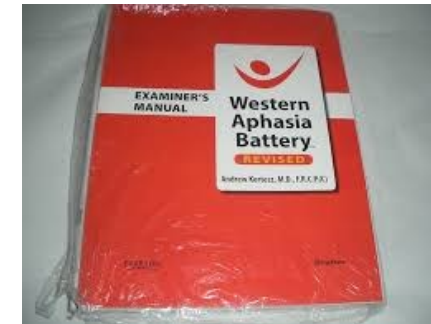
Paul Broca (1861)



Ludwig Lichtheim (1885)



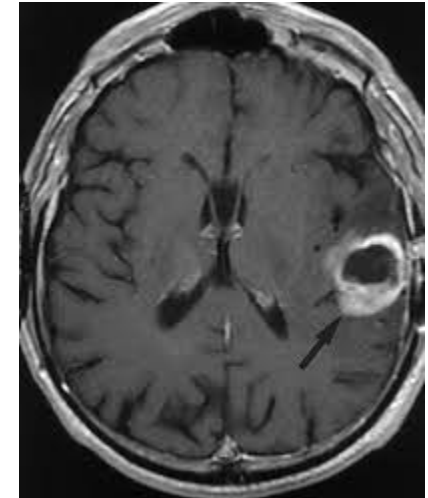
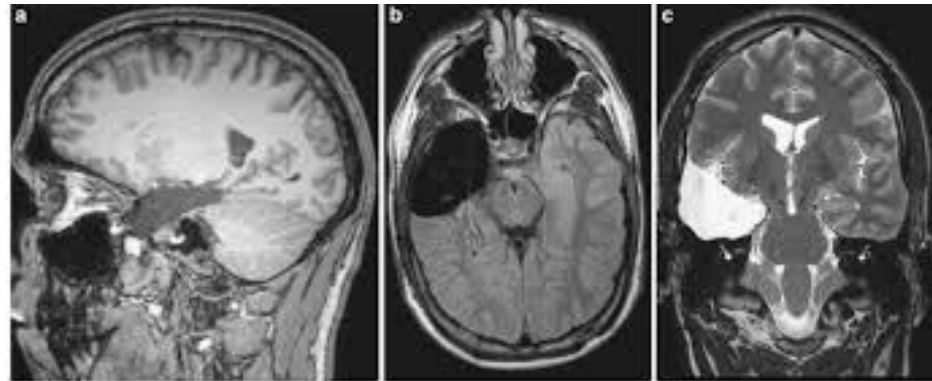
Carl Wernicke (1874)



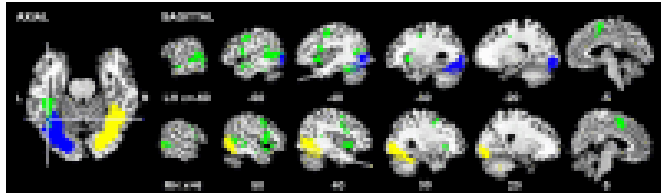


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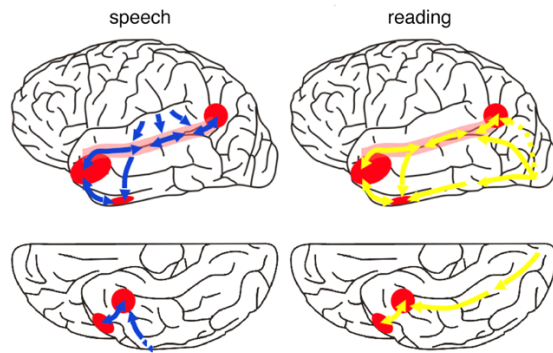
Non stroke Aphasia



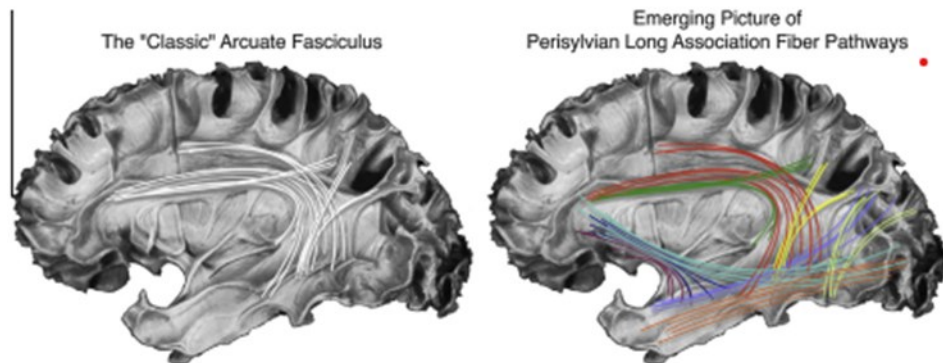
Beyond classic regions and models



Woodhead et al, 2011

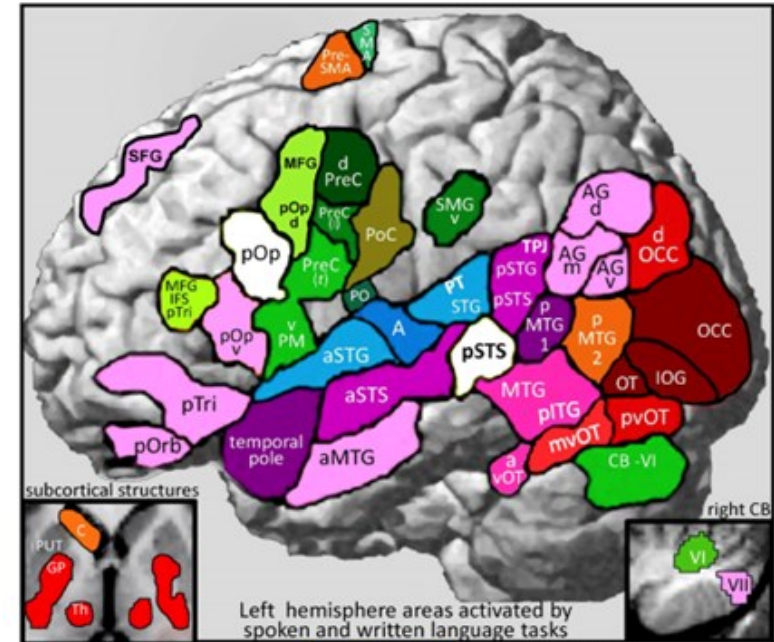


Spitsyna et al., 2006



Tremblay and Dick, 2016,

- "Classic" Arcuate fasciculus
- Arcuate fasciculus (AF; long segment)
- Arcuate fasciculus (AF; anterior segment/SLF III)
- Arcuate fasciculus (AF; posterior segment)
- Extreme capsule fiber system (EmC)
- Inferior fronto-occipital fasciculus (IFOF)
- Inferior longitudinal fasciculus (ILF)
- Middle longitudinal fasciculus (MdLF)
- Uncinate fasciculus (UF)
- Vertical occipital fasciculus (VOF)



a	auditory 1	pOrb	pars orbitalis
A	auditory 2	pTri	pars triangularis
AG	visual 1	PT	planum temporale
c	visual 2	poC	postcentral
CB	general action	preC	precentral
d	words	PM	premotor
GP	sentences	PUT	putamen
IFS	semantic 1	SFG	superior frontal gyrus
IOG	semantic 2	SMC	supplementary motor cortex
ITG	integration	STG	superior temporal gyrus
(l)	word retrieval	STS	superior temporal sulcus
MFG	articulatory	SMG	supramarginal gyrus
MTG	premotor	TPJ	temporo-parietal junction
Occ	sensorimotor	(t)	tongue
OT		Th	thalamus
p		v	ventral
pOp		VI	lobule VI (medial anterior)
		VII	lobule VII (lateral posterior)

Price et al., 2012



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What do we do?



Use models other than stroke to understand language networks and recovery?

Prevalence of non-stroke aphasia in epilepsy and brain cancer?

Understanding trajectory of different non-stroke aphasias?

Developing pre-surgical fMRI paradigms to minimise risk of post-surgical aphasia

Develop and test therapies for brain cancer and epilepsy



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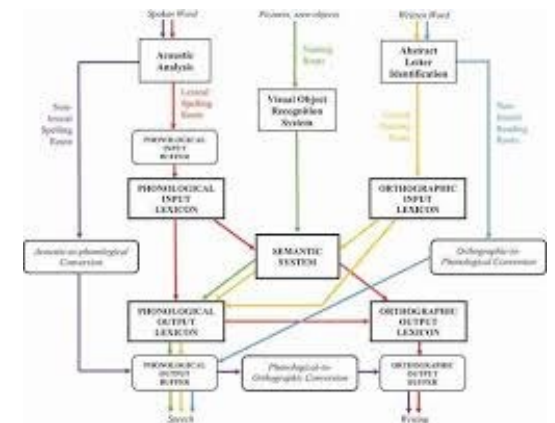
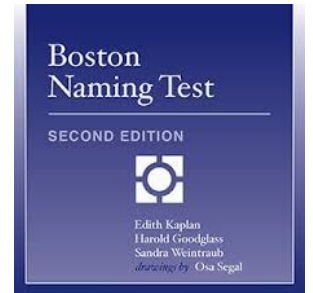
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How?



Assessing language

	Epilepsy	Brain tumour
Cognitive Neuropsychological model: CAT	85%	77%
Classic model of language: WAB	19%	19%
Classic model of language: Noun naming	12%	8%
Subjective self-report	80%	68%



Reardon et al., (2023). *Epilepsy and behaviour*



Presurgical fMRI planning



	Paradigm	Language task (Baseline task)	Input	Output	Anterior view	Posterior view	Lateral view (L)	Lateral View (R)
Novel writing tasks ^{1,2}	Written autobiographical	Autobiographical writing (Symbol copy)	Write about what you did on your last holiday.					
Semantic decision tasks ^{3,4}	Semantic decision (nouns)	Semantic decision (Number Decision)	thimble needle cotton					
	Semantic decision (verbs)	Semantic decision (Number decision)	smiling crying laughing					
Adaptive language mapping paradigms ^{5,6}	Adaptive semantic	Semantic judgement (Symbol string judgement)	elephant circus					
	Adaptive rhyme	Rhyme judgement (Symbol string judgement)	peacock sheekin					
American Society of Functional Neuroradiology (ASFNr) recommended ⁷	Sentence completion	Sentence completion (Viewed nonsense sentences)	Lions have very sharp ____.	N/a (subvocal)				
	Silent word generation	Phonemic fluency (Viewed symbols)	A	N/a (subvocal)				



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Develop speech and language therapies



CanCommunicate for brain tumour



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Epilepsy and language education handouts

Thank You

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a.reardon@uq.edu.au

emma.finch@health.qld.gov.au





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Unspoken, Unheard, Unmet: Improving Access to Preventative Health Care through Better Conversations about Care

Funded by the Medical Research Future Fund (MRFF)

2021 Dementia Ageing and Aged Care Grant Opportunity (MRF2015728)

Associate Professor Sarah Wallace

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Research Objective

We will co-design, implement, and evaluate Better Conversations about Care—a multi-component intervention to support conversations about care in community and residential aged care settings

The Research Team



Sarah Wallace
Speech Pathology



Louise Hickson
Audiology



Victoria Palmer
Primary Care Mental
Health & Co-Design



Nerina Scarinci
Speech Pathology



Dierdre Fetherstonhaugh
Nursing



Samantha Siyambalapitiya
Speech Pathology & Culturally
Responsive Health Care



Anthony Angwin
Speech Pathology &
Language Neuroscience



David Copland
Speech Pathology &
Language Neuroscience



Peter Worthy
Interactional Design
& Law



Kirstine Shrubsole
Speech Pathology &
Implementation Science



Asad Kahn
Biostatistics &
Epidemiology



Joanne Mary Wood
Optometry



Aparna Arjunan
Medicine (Geriatrics)



Geoff Argus
Psychology



Asmita Manchha
Aged care
Research Fellow



Michelle King
Law
Research Fellow



Kyla Hudson
Speech Pathology
Research Fellow



Bridget Burton
Speech Pathology
PhD Student

Partner Organisations + Steering Committee



Kym Torresi
Speech Pathology
Australia



Leah Allen
Wesley Mission
Queensland



Sandra Glaister
Southern Cross Care
Queensland



Peter Worboyes
Ethnic Communities
Council of Queensland



Samantha Edmonds
Older Person's
Advocacy Network



Barbra Timmer
Audiology Australia



Geoff Argus
Southern Queensland
Rural Health Network



Australian Government
Aged Care Quality and Safety Commission

Loren de Vries
Aged Care Quality and
Safety Commission

Living Experience Advisory Group (LEAG)



Gwenda Darling



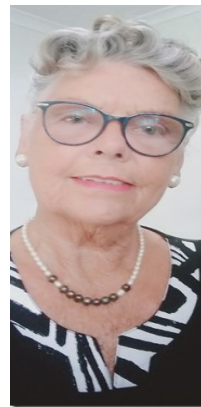
Lesley Forster



Jen Muller



Kristina Chelberg



Danijela Hliš



Jasmine Siggs



Jeff Murray



Stage 1a: Experience Gathering through Qualitative Interviews

Data has been collected from two studies:

1. Conversations about Care (MRFF)
2. Dementia Centre for Research Collaboration Pilot Grant (2022)

Interviews have now been conducted with:



28 people who use aged care services



25 family members or significant others



28 aged care workers





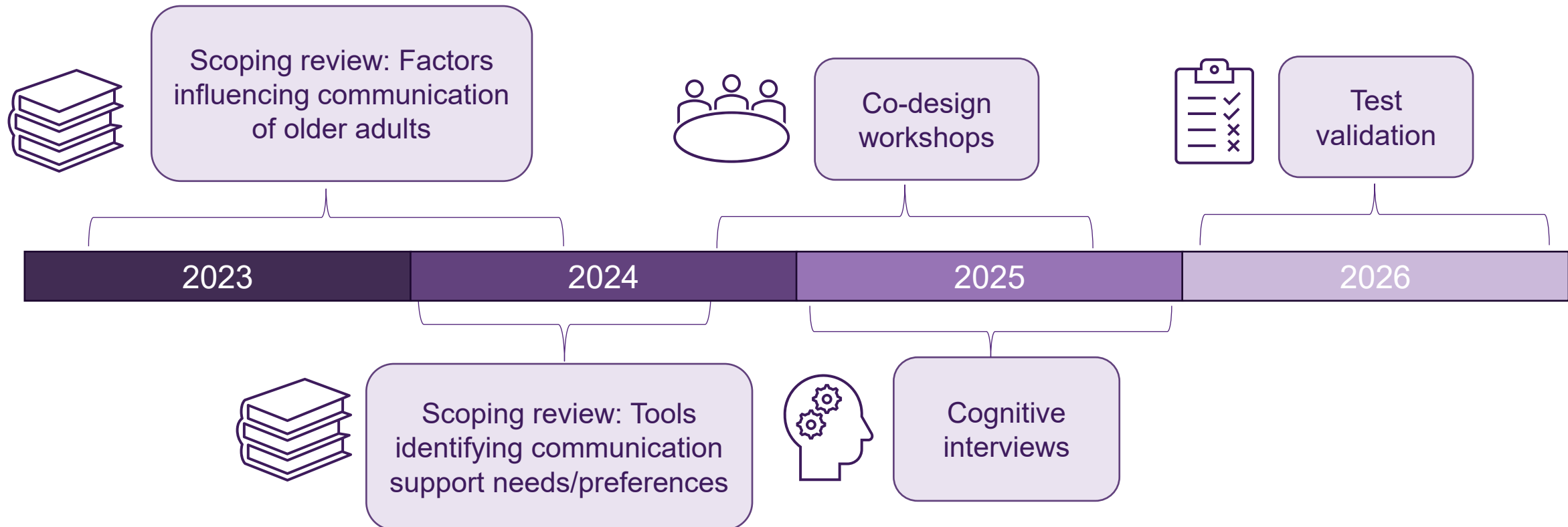
Fieldwork: Rural & Remote Aged Care Services, April 2024





Workstream A: Identifying older adults' communication support needs/preferences

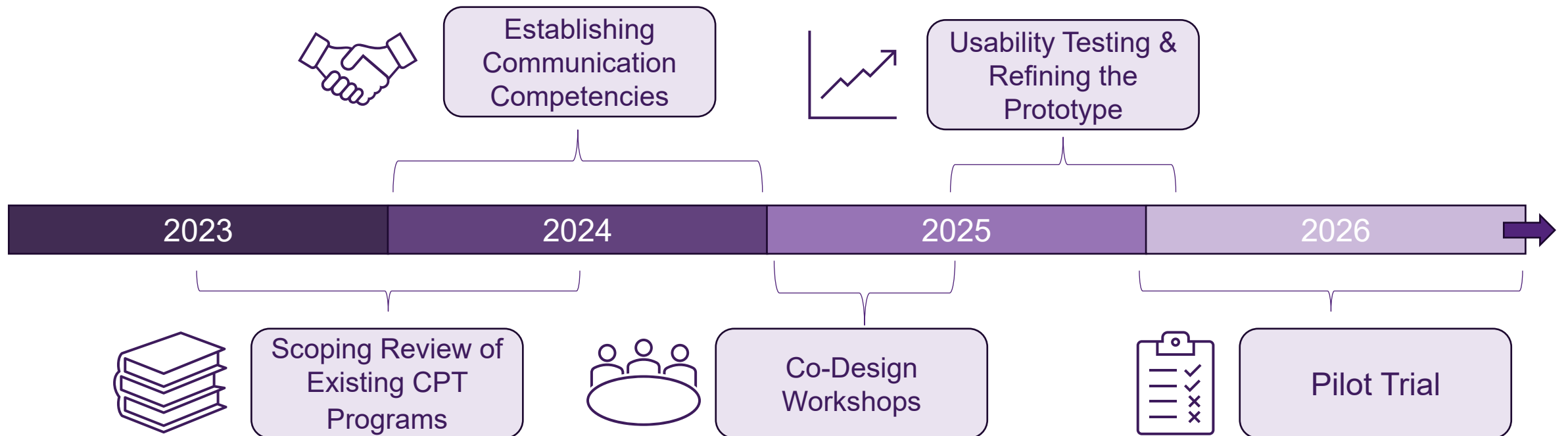
Workstream aim: to co-design and evaluate a tool which identifies communication support needs and preferences for older people in Australian aged care in partnership with aged care providers (workforce), recipients, and significant others.





Workstream B: Communication Skills Training for Australian Aged Care Workers

Workstream Aim: To co-design and evaluate a fit-for-purpose communication training program for the Australian aged care workforce.





Workstream C: Guidelines for communication support, decision-making, and feedback and complaints resolution + Accessible + Picture-based resources

Workstream Aim: Embedding communication support in aged care by providing Guidelines for communication, decision-making, and feedback and complaints, including the investigation of complaints



Multi-stakeholder
Delphi Consensus
Study

2023

2024

2025

2026



Systematic &
legislative reviews



Co-design of resources &
development of guidelines



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If you are a decision-maker for/with a person who uses aged care services (a guardian or Power of Attorney) – we'd love to interview you! Scan the QR Code for the project EOI form and get in touch.

conversationsaboutcareproject@uq.edu.au

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The Aphasia Implementation Toolkit

Kirstine Shrubsole, Emma Power, David Copland, Sarah Wallace, Rachel Levine, Elizabeth Lynch,
John Pierce, Bridget Burton, Megan Trebilcock

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Background



There are over 80 recommendations to guide aphasia practice



There are evidence practice gaps in aphasia services



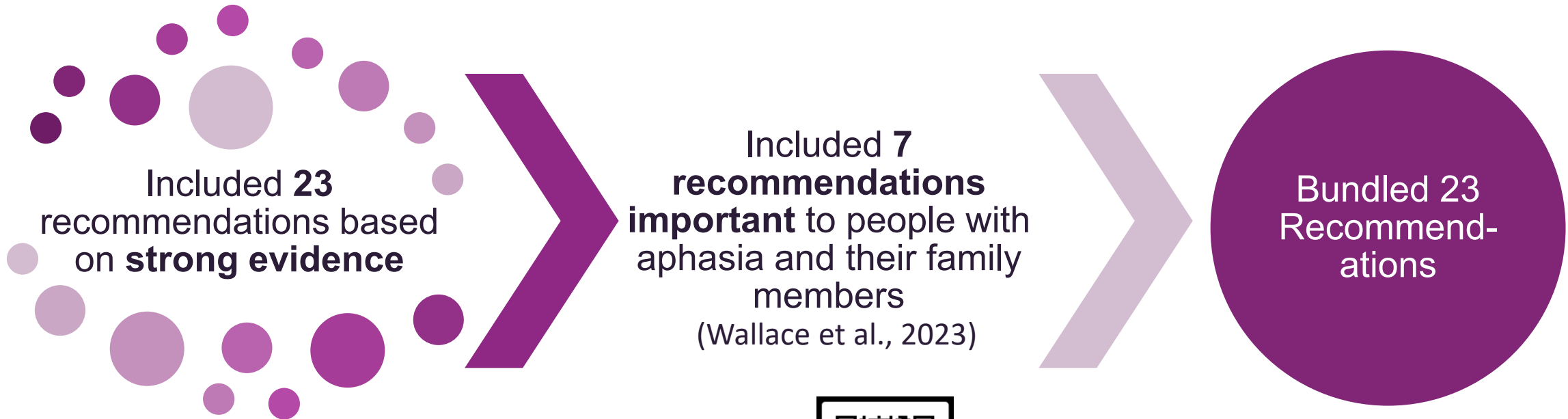
Speech pathologists can improve services with implementation support & resources



First, we want to know – what are **the most important** recommendations?

There are **23 aphasia recommendations** that are:

- 1) supported by strong evidence or
- 2) consumer-important



Clinical Guidelines (Stroke Foundation, 2023); Aphasia Best Practice Statements (Power et al., 2015)



We identified the ‘**top 10 important recommendations**’

Survey: 82 clinicians & 26 people with lived experience of aphasia scored the **importance** of each of the 23 recommendations (n=108)



10 “rated” as
most important
by 108 people

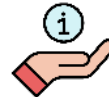
These were turned into '11 quality indicators' → MEASuRES project

11 QUALITY INDICATORS FOR POST STROKE APHASIA SERVICES

A screener and/or assessment is completed to determine if communication impairment (including aphasia) is present.



Information about aphasia is provided to the person with aphasia's significant other(s).



Information about support is provided to the person with aphasia's significant other(s).

Goal setting is undertaken in partnership with the person with aphasia and their significant others.



The person with aphasia receives speech and language therapy.



A valid and reliable standardised assessment is conducted to determine the severity of aphasia.



Information about aphasia is provided to the person with aphasia.



The primary communication partner of the person with aphasia is provided with communication partner training.



The person with aphasia receives person/family centred care.



Individualised recommendations for communicating with the person with aphasia are provided to the treating team.



There is training for staff in supported communication for aphasia.



<https://doi.org/10.1111/hex.14173>

These were then voted on to identify 'implementation priorities'

1. **Assessment** = The person with suspected aphasia should be **assessed** by a speech pathologist to determine the **presence and severity of aphasia**.



2. **Information provision** = All people with aphasia should be **offered information** tailored to meet their needs using relevant communication formats.



3. **Goal setting** = **Goals** should be **set together** with the person with aphasia, their family or carer, and speech pathologist.



4. **Person & family centred services** = Aphasia services should be **person and family centred**. People with aphasia and their families should be involved in all stages of rehabilitation.



5. **Offered aphasia therapy** = All people with aphasia should be **offered therapy** to improve their ability to communicate if they have ongoing goals.



6. **Comprehensive & individualised treatment** = Aphasia rehabilitation should be **comprehensive and individualised** to address the impact of aphasia on functional everyday activities, participation & quality of life.



The Implementation Toolkit



Strategies to close evidence-practice gaps **need to be tailored** to specific contexts - **but this is time-consuming**



An **implementation toolkit** is a collection of adaptable documents to inform and facilitate practice change (Yamada et al 2015)



Trained facilitators/champions are effective in supporting practice change in other areas (Ritchie et al 2021), but not well utilised in speech pathology

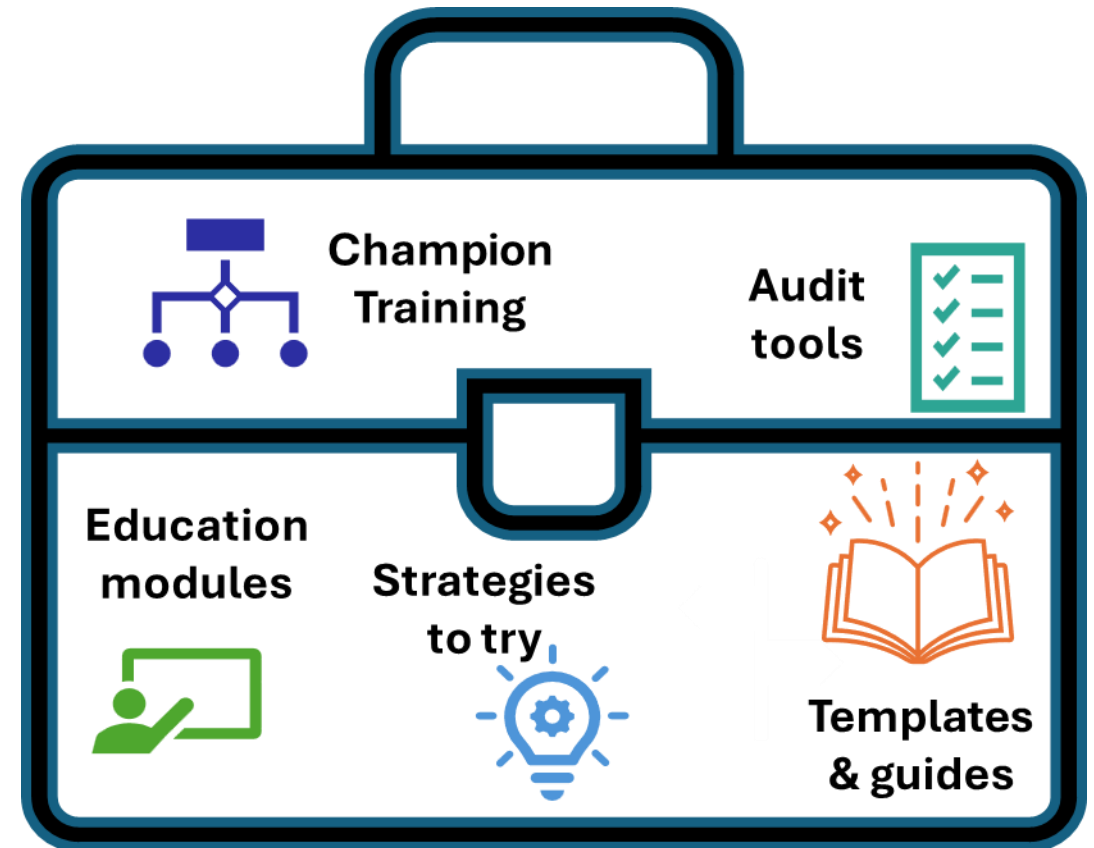


An **implementation toolkit** led by trained **change champions** is a potential solution to reduce evidence-practice gaps in aphasia

What will the Toolkit do?

The toolkit aims to help speech pathologists improve their aphasia services:

- Audit tools
- Guides to identify barriers
- Modules about the evidence
- Implementation strategies
- Training for change champions



How will it work?

- 1. A service will sign up to the Toolkit**
- 2. Change Champions will complete training, & learn skills in knowledge translation and how to use the toolkit, such as how to:**
 - Identify a priority area for improvement
 - Identify local barriers
 - Select and use implementation strategies
 - Support and monitor implementation
 - Sustain practice change

What have we done so far?

Design & Procedure:

- **13 speech pathologists** at 1 health service participated
- **2 Change Champions (see Fig. 1):**
 - ✓ Conducted audits of practice
 - ✓ Completed **Barrier-Strategies Matching Tool** - selected & tailored tools to local barriers
 - ✓ Facilitated team planning & implementation

Data collection & Analysis:

- Pre-post medical record **audits**
- Clinician **surveys & 3 focus groups**

Key implementation strategies



Change Champions



Audit & feedback



Resource provision



Team goals, actions & processes



Education & training

1. Pre-post file audits = *improvement in target behaviour*

Provision of written information about aphasia			
Pre	Post	Change	Fisher's exact test
0/10 (0%)	6/10 (60%)	60% ↑	*p=0.005 Significant ↑

2. Survey = *12/14 targeted barriers improved*

3. Clinician focus groups = *feasible & acceptable*

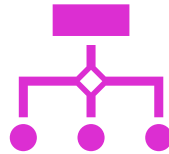
Goal = "To provide written information about aphasia"

What is next?



Project Establishment

Consumer involvement at
all stages



Co-design training for Implementation Champions

Field test training



Co-produce Toolkit strategies and resources

Examples may include
educational modules,
templates and guides,
and audit tools



Toolkit testing

Pilot cluster randomised
control trial with 6 health
services



How can you become involved?

Stay up to date through our UQ project page.

For more information, please contact:
Dr. Kirstine Shrubsole, k.shrubsole@uq.edu.au



Thank you to our participants and research collaborators for contributing to this research.

The Aphasia Implementation Toolkit is funded by a 2024 National Health and Medical Research Council (NHMRC) Emerging Leadership Fellowship awarded to Dr Kirstine Shrubsole.



The establishment of QARC has been made possible by generous donations from the Bowness Family Foundation and an anonymous donor.

Aphasia Coffee Group



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Who is Coffee Group for?

Coffee group is for:

- people with **aphasia** – no matter the cause
- family members
- friends.



What is Coffee Group?

Coffee group is **your** group.

- For you to **talk** to new and familiar people.
- **Share** ideas and stories.
- It is a **safe** and **inclusive** environment.
- **Ask QARC questions** or request information.



Where and When is Coffee Group

You can **choose** whether you want to join us **in person** or **online**.

Option 1: Join us **in person** at **STARS** Hospital. Level 1, 296 Herston Road, Herston.
Time: 11am - 12.30pm

Option 2: Join us online via **Zoom**.
Time: 11am - midday



Next Coffee Group

- November 12th, 11am
- Please sign up to mailing list to receive updates and zoom link.
- Sign up to mailing list here





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Aphasia Tech Hub

Dr Sonia Brownsett

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Aphasia Tech Hub

Improving access to technology for people with aphasia, their support people and treating clinicians

Aphasia Techhub consultant team:

Speech Pathologists:

Sonia Brownsett

Kori Ramajoo

Lived experience consultants:

Kim Barron

Phill Jamieson





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What does Tech hub we do?



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Free workshops and seminars

Group education provided: AAA Aphasia Camp, Seniors on-line, CHAT program, in-service development, SIGs, student lectures

Free one-to-one/ joint consultations and coaching
(person with aphasia, clinicians, researchers, tech developers and students)



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Technology drop-in during coffee group

Aphasia friendly/communication accessible guides

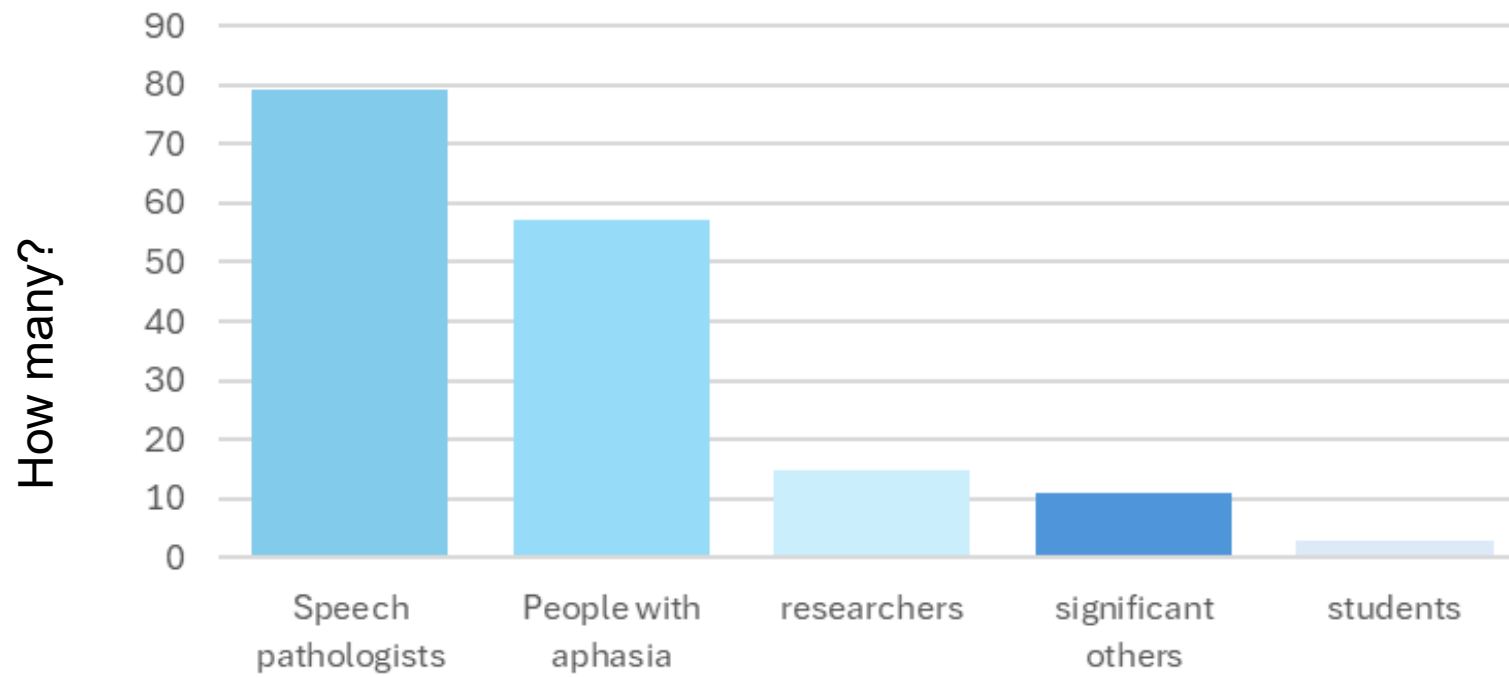
Support across Australia (QLD, Victoria, Northern Territory, NSW, Tasmania)

Online zoom coffee group



How many so far?

Number of individual sessions

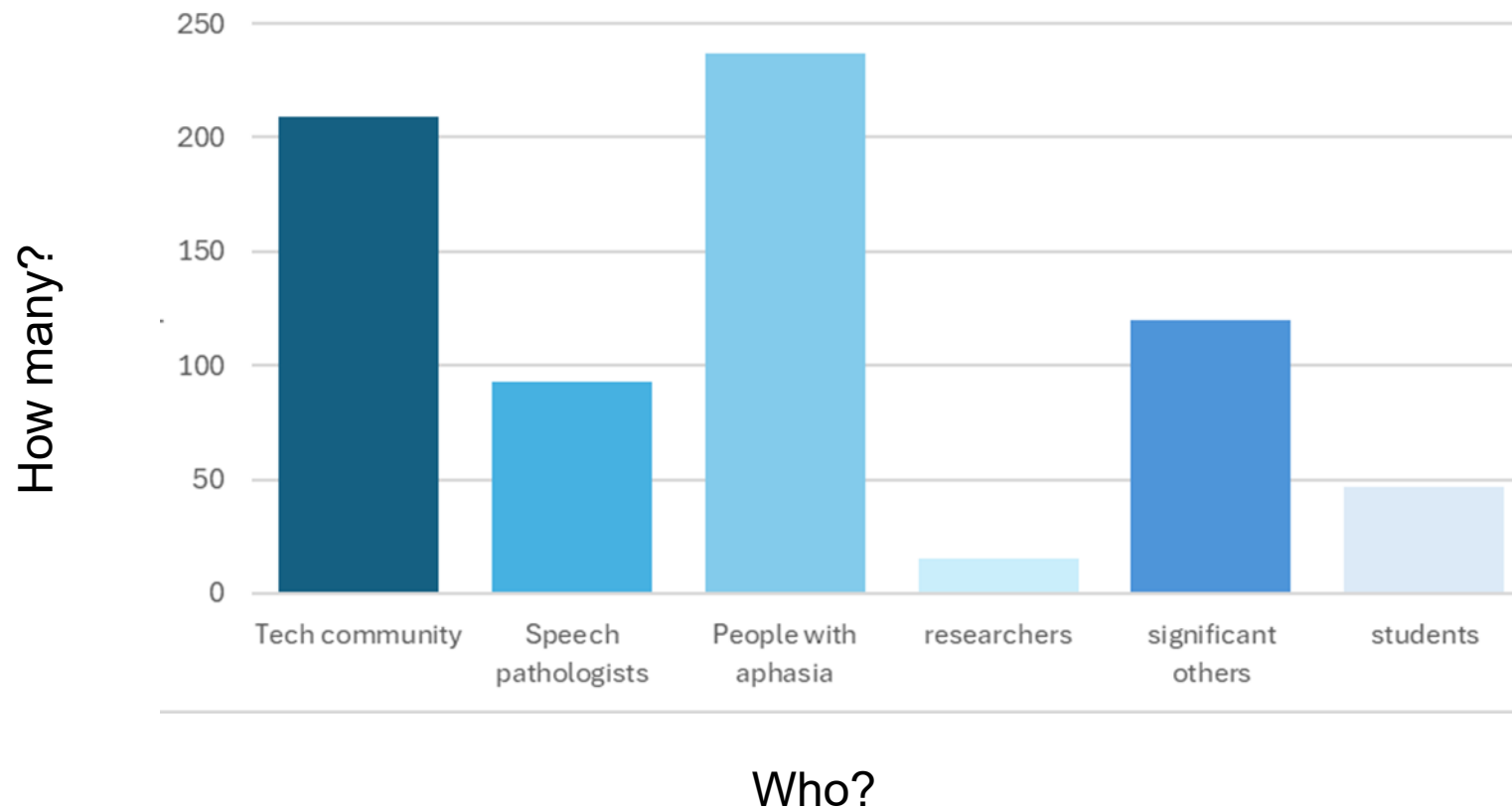


Who?



How many so far?

Number of people in Tech hub talks/groups

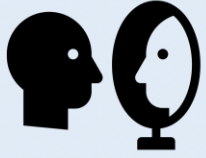




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Examples of our consults

Self-management



(Managing your recovery)

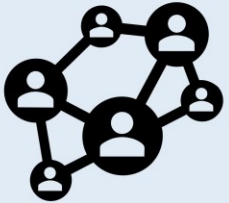
Safety



Daily Life



Connecting



Aphasia Recovery + Technology

Therapy



Fun



Help when I'm
tired or stuck



Evidence for therapy apps



Target	Software	Study	Significant results	Level of Evidence	Risk of Bias	Recommend
Auditory word comprehension	Listen-In	Fleming et al. (2021)	Yes	II	9 of 13	yes
Mixed expressive and receptive language targets	AphasiaMate	Archibald et al. (2009)	Yes	IV	8 of 10	yes
	Constant therapy	Braley et al. (2021)	Yes	II	7 out of 13	yes
		Kiran et al. (2014)	NA	IV	5 out of 10	yes
	MossTalk Words	Raymer et al. (2006)	No	IV	7 of 10	no
	Power-Afa	De Luca et al. (2018)	Yes	II	8 of 13	yes
	Talkpath	Steele et al. (2014)	Mixed	IV	9 out of 10	yes
Tactus Therapy	Stark & Warburton (2018)	Yes	III-2	8 of 10	yes	
		Yes	III-2	8 of 10	yes	
Narrative production	SentenceShaper	M ^c Call et al. (2009)	Yes	IV	7 of 8	yes
		Albright & Purves (2008)	No	IV	6 of 8	
Oral reading	ORLA	Cherney et al. (2021)	Yes	II	8 of 13	yes
		Cherney (2010)	No	II	4 of 13	
Script production	AphasiaScripts	Cherney et al. (2019)	Yes	III-3	4 of 8	yes
		Cherney et al. (2008)	No	IV	6 of 9	
		Cherney & Halper (2008)	No	IV	6 of 9	
Single word reading	iReadMore	Woodhead et al. (2018)	Yes	III-3	7 of 9	yes
Word retrieval	MossTalk Words	Fink et al. (2002)	Yes	IV	7 of 10	yes
		Ramsberger & Marie (2007)	Mixed	IV	9 of 7	
	StepByStep	Palmer et al. (2019)	Yes	II	10 of 13	yes
		Palmer et al. (2012)	Yes	II	9 of 13	
		Mortley et al. (2004)	Yes	IV	5 of 10	

Australian Government Australian Taxation Office

Search ato.gov.au

Menu Home Individuals and families **Businesses and organisations** Tax and super professionals

Lodge your tax return online with myTax

Pre-filing your online tax return

Pre-fill availability

Access to myTax

You will need a [myGov account with an active link to the ATO](#) to access our online services. To lodge your return with myTax:

- sign in to your myGov account
- select **ATO** from your linked services
- select **Manage tax returns** from the Quick link.

You can also login to our online service for individuals using the ATO app.

Start your tax return with myTax

The due date to lodge your tax return is 31 October and most refunds issue within 2 weeks. If you need [help or support to lodge](#), check if you are eligible.

Immersive Reader

9:41

Profile Medical ID Edit

Information

Michael Cavanna
April 1, 1976 (45 years old)
Sharing: Lock Screen

Medical Conditions
Hypertension

Allergies & Reactions
Peanuts

Medications
Lisinopril (10mg by mouth once a day)

Blood Type
O+

Weight
170 lb

Height
5' 8"

Emergency Contacts

spouse
Karina Cavanna
(650) 555-3369

9:41

Notes Done

Grocery list

Milk
Eggs
Orange juice

9:41

Johnson Family

22nd St
20th St
17th St NE
15th St
4th St NE

First Ave NE
Second Ave NE
Third Ave NE
Fourth Ave NE
Fifth Ave NE

63

Check in SOS

People

Google

Search...

TRANSLink

Travel information Tickets and fares News and updates About TransLink

Welcome to go card online

Manage your go card

Enter your go card number

Enter your password

Buy a go card Login

Close 10:09

It looks like you've taken a hard fall.

SOS EMERGENCY SOS

I'm OK

Emergency SOS calls

Stroke enable enable

Search enableme

Make accessible Contact us Donate

SIGN UP

SIGN IN

RESOURCES

COMMUNITY

GOALS

USERS

STROKESAURUS

Forums

All I'm new to stroke Body & mind after stroke My life after stroke Carer information

Search for...

Where am I? Home / Forums

Read this page to me

All conversations

Fatigue & nausea
Wednesday, February 09 2022, 2:42pm 3 points StrokeLine & 2 others

HELLO FRESH

Select Plan Register

Choose

We'll use this as your default p

Number of people

Meals per week

Price summary
3 meals for 2 people per we
6 total servings

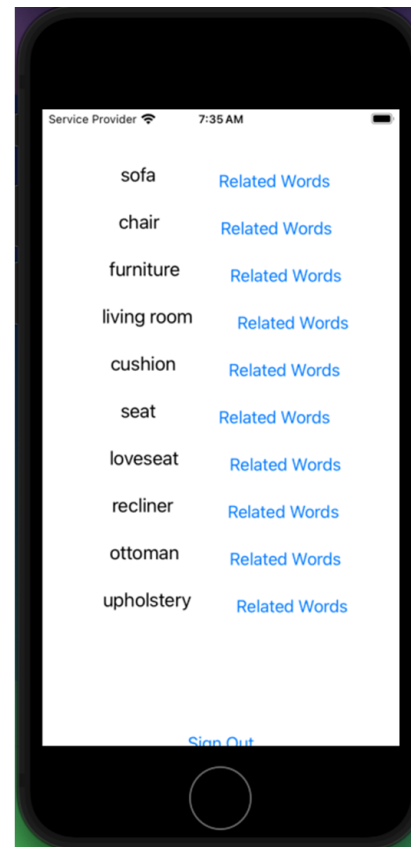
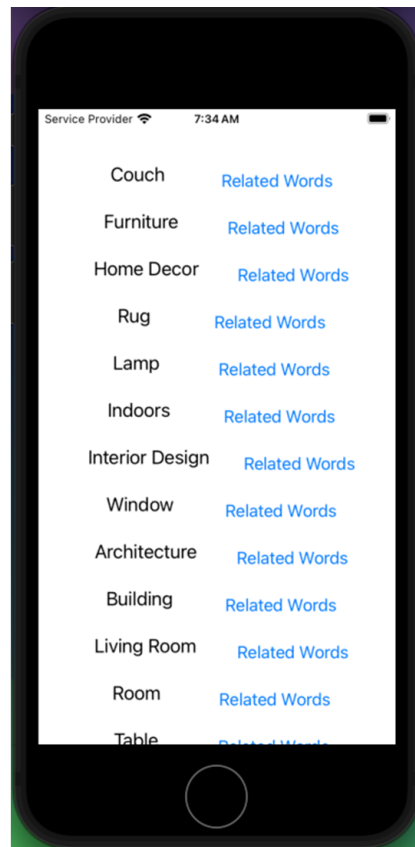
Tap a card. Remember the picture. Find the matching picture. Find all the other pairs in as few tries as possible.

Correct

Next



Develop new technology



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Aphasia Tech Hub EOI form





Queensland
Aphasia
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Centre

How to get involved at QARC

Clinicians and students

A research centre of the



**STARS Education and
Research Alliance**

CREATING KNOWLEDGE | TRANSFORMING CARE



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

Metro North
Health



Queensland
Government



There are many ways you can be involved:

1. Become a QARC clinical affiliate
 - Clinical Forum
 - Regular newsletters
2. Research involvement:
 - participation, direction, research ideas, research higher degree.
3. Support

Become a clinical affiliate

1. Regular communications:
 - “QARC Matters” newsletter
 - research updates
 - invitations to do research
 - Workshops / events
 - And more...

QARC Matters

Welcome to the 'Spring Issue' QARC newsletter.

A warm welcome to new members.

Research outcomes



CHAT Maintain

CHAT-Maintain is a home aphasia therapy program which uses apps and computer therapy programs prescribed by a speech pathologist.

Funded by the Stroke Foundation, a research team at QARC aimed to see whether CHAT-Maintain helped people maintain therapy gains after completing an intensive aphasia therapy program (CHAT or TeleCHAT).

[Read the study outcomes](#)



Understanding important changes in aphasia recovery

In a study led by speech pathologist and PhD student Sally Zingelman, a research team set out to better understand important changes in aphasia recovery. Specifically, they wanted to speak to people with aphasia to get their opinions.

Read more about the study, including outcomes and practical advice, in a brochure co-designed with people with lived experience.

For more information, please contact Sally Zingelman [here](#).



Clinical Forum

Purpose: idea-sharing and discussion platform hosted by QARC.
Discuss research being done in research and clinical settings
Support translation of research into practice.

Aims:

1. Provide updates
2. Facilitate discussion around translation (barriers / facilitators)
3. Open discussion and collaboration between researchers and clinicians.
4. Promote sharing of resources and clinical problem solving in supportive environment.



Previous Forum topics

1. AI and acquired communication disability
2. Working with First Nations people with stroke and aphasia
3. Needs of families living with aphasia: in hospital, after discharge and now.
4. Aphasia Management and AAC
5. Delivering a comprehensive high-dose aphasia therapy via telepractice



Research involvement

1. Participation
2. Clinical advisor / research team
3. Research ideas / gaps
4. Research higher degrees





Provide feedback and direction

1. Provide ideas for Clinical Forum
2. Let us know if you're looking for resources or if using resources.



Support

1. Tech Hub consultations
2. QARC team site visits
3. Grant development



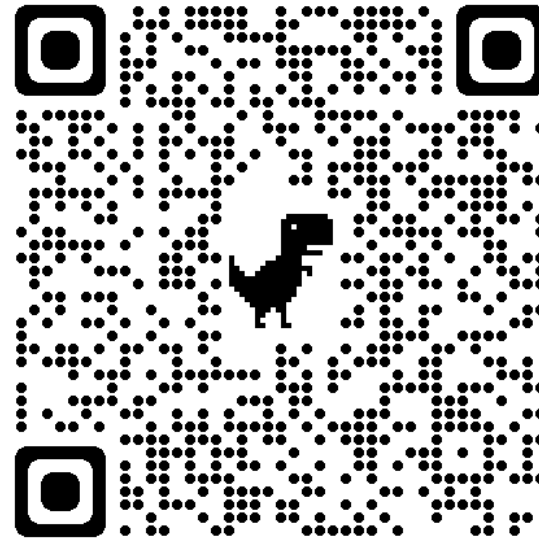
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Join the mailing list

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Thank you!

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