

**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

LEE KONG CHIAN SCHOOL OF
MEDICINE

Dementia Research Centre
(Singapore)



**Gray Matter
Solutions**

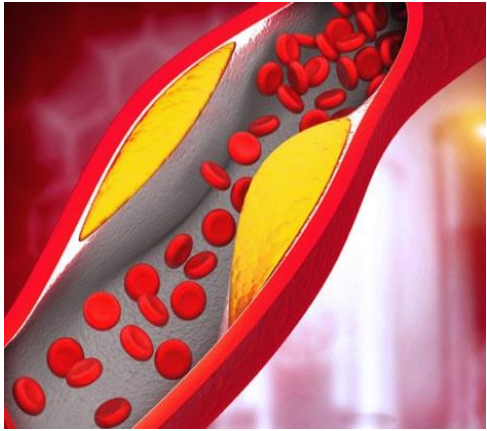
Personalized detection and management of cognitive healthcare *AI-enabled brain healthcare (longevity)*

Supported
By:



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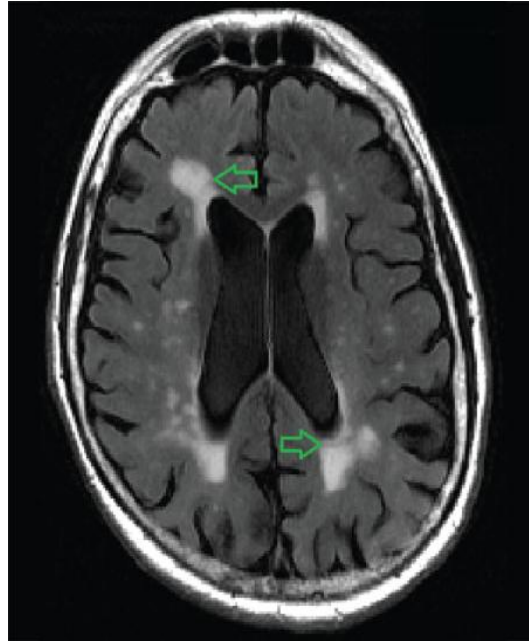
Multiple Factors Lead to cognitive decline and Mild Cognitive Impairment (MCI)



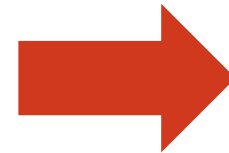
**Cardiovascular Factors,
Lifestyle, Genetics**
> 500M people in Asia



Neurodegeneration



MCI



*10-15% of
patients every
year*

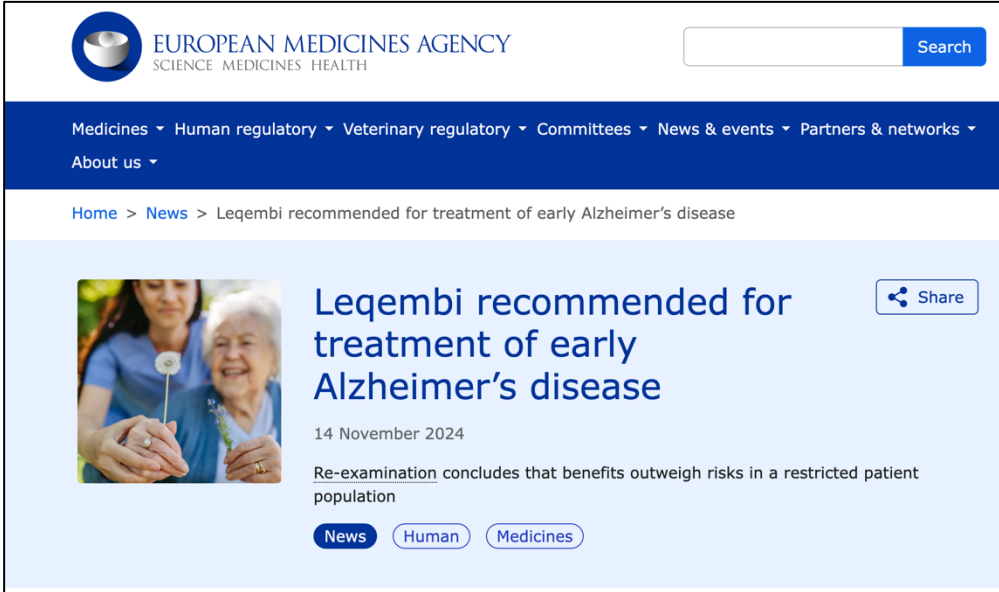


Dementia

Burden of dementia – (USD 1.3 Trillion worldwide)

New care pathways are emerging

Alzheimer's Disease



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Leqembi recommended for treatment of early Alzheimer's disease


14 November 2024

Re-examination concludes that benefits outweigh risks in a restricted patient population

News Human Medicines



Cognitive Decline
Dementia
Brain Fog



Multi-domain non-pharm interventions

THE LANCET



ARTICLES · Volume 385, Issue 9984, P2255-2263, June 06, 2015

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A 2 year multidomain intervention of diet, exercise, cognitive training, and vascular risk monitoring versus control to prevent cognitive decline in at-risk elderly people (FINGER): a randomised controlled trial

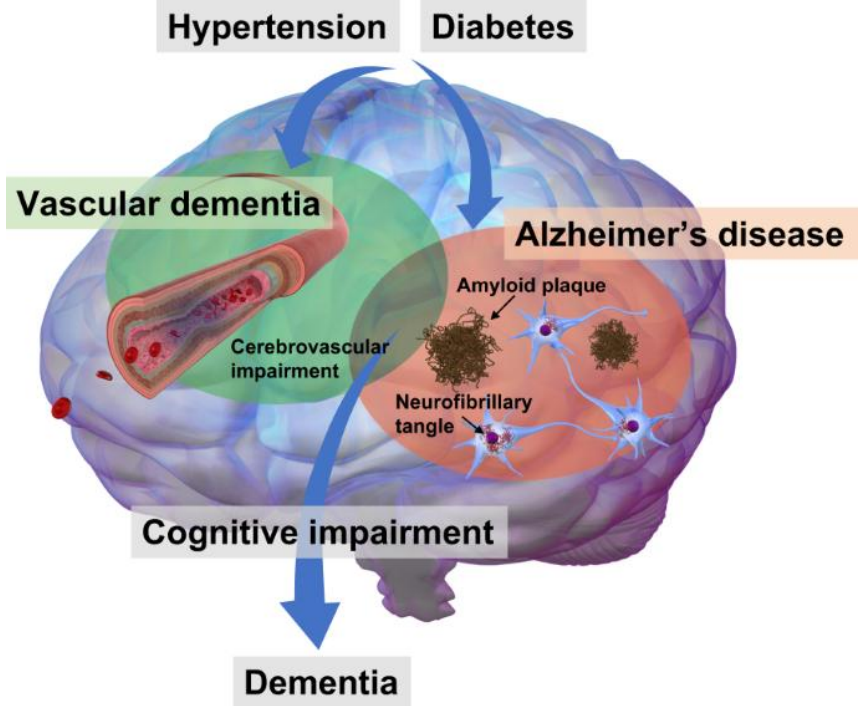
Tiia Ngandu, PhD^{a,c} · Jenni Lehtisalo, MSc^a · Alina Solomon, PhD^{c,d,f} · Esko Levälähti, MSc^a · Satu Ahtiluoto, MD^a · Prof Riitta Antikainen, PhD^{g,h,i} · et al. Show more

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It is challenging to detect and sub-type cognitive decline



Subtle Symptoms



Vascular cognitive impairment symptoms differ from Alzheimer's

ReCOGnAlze Assessment App:

Neuroscientific games to enable early detection of MCI

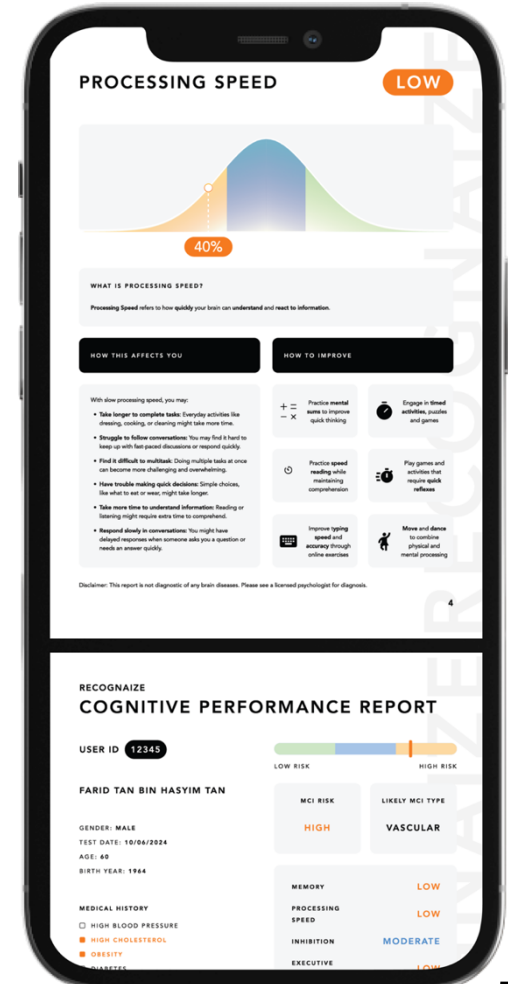
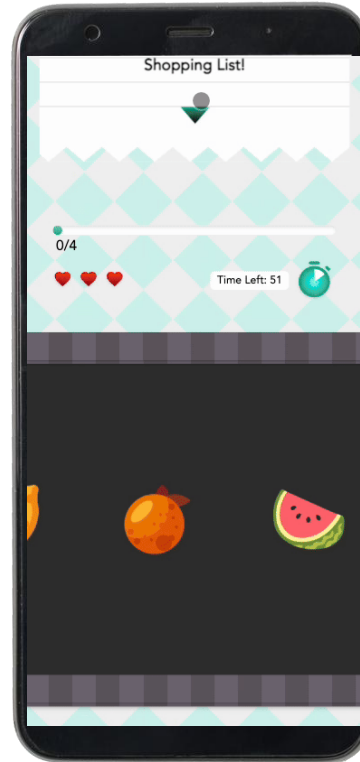
1. Processing Speed

2. Executive Function

3. Attention and Impulse

4. Working Memory

Automated Scoring and Reports

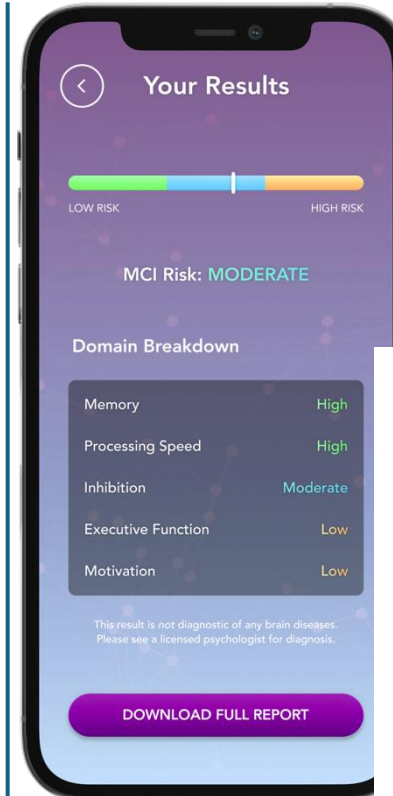


10 – 15 Minutes

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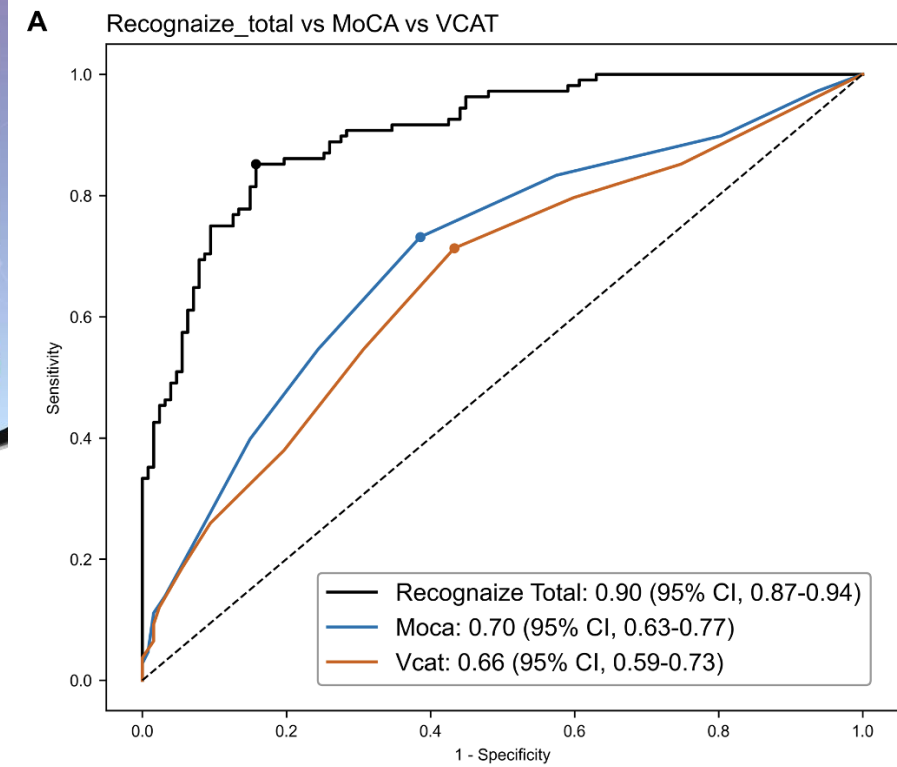
Accuracy of 90% in detecting Mild Cognitive Impairment (**higher** than global screening standard MoCA)

Ground truth (MRI + Interview)



ReCOGNAlze

**90% Accuracy, 85% Sensitivity
84% Specificity.
Higher than MOCA and VCAT**



Published in best dementia journal globally

Detecting MCI and differentiating Vascular MCI



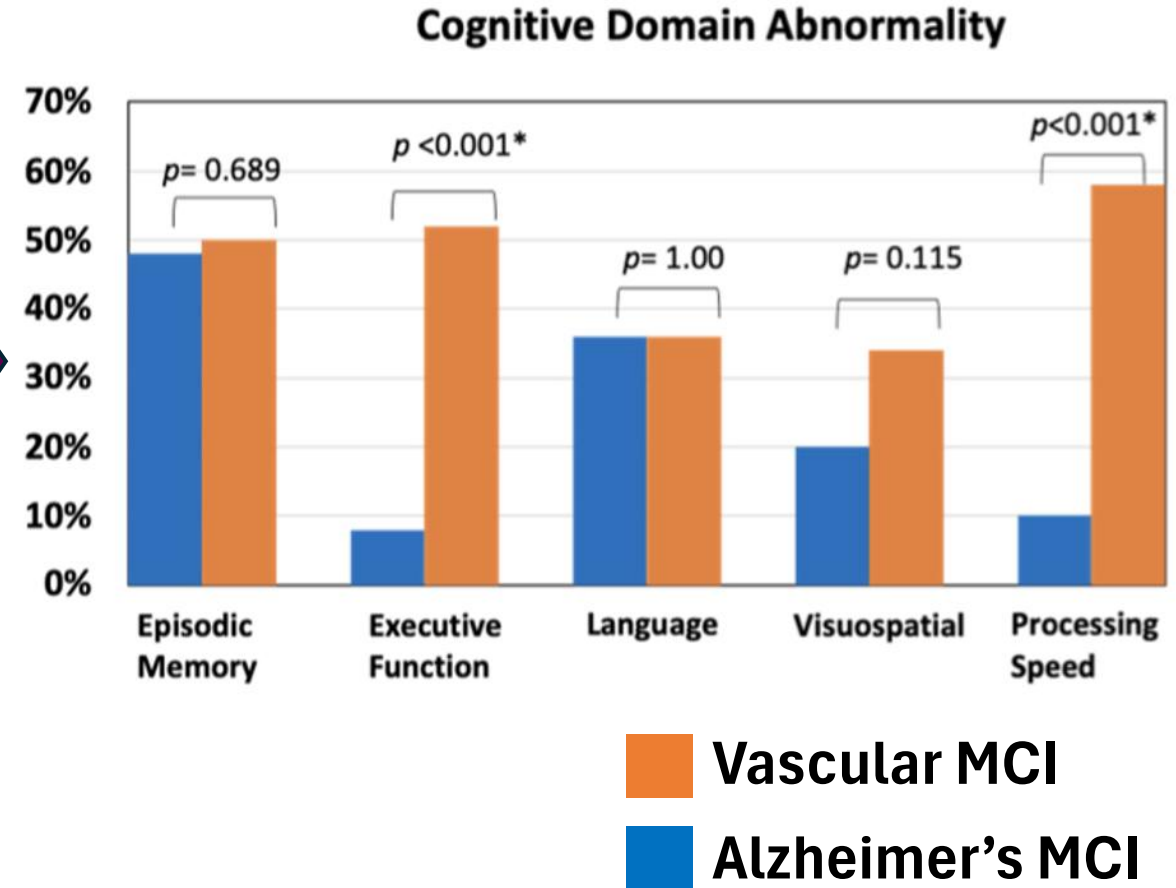
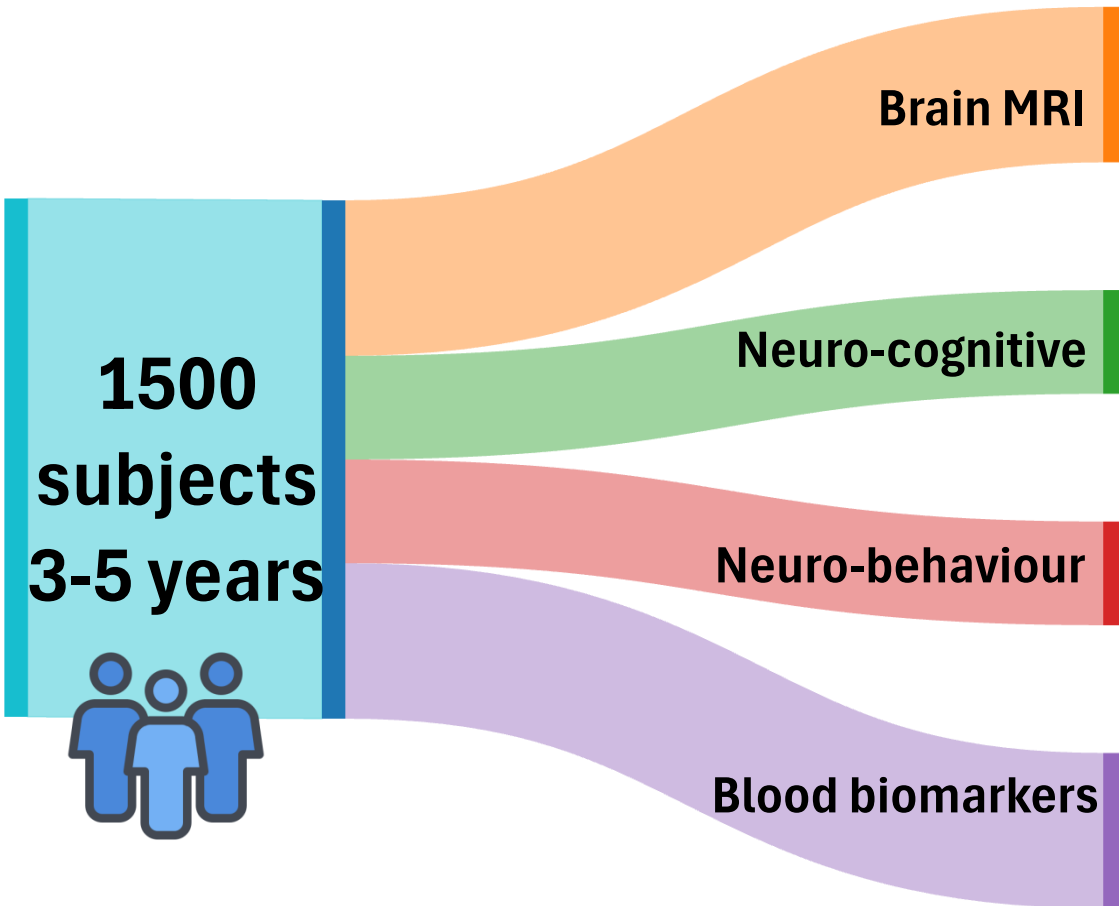
RESEARCH ARTICLE | Open Access | CC BY-NC-ND

ReCOGnAlze app to detect vascular cognitive impairment and mild cognitive impairment

[Adnan Azam Mohammed](#), [Ashwati Vipin](#), [Yi Jin Leow](#), [Eliana Setiabudi](#), [Farid Tan](#), [Hitesh Agarwal](#), [Kai Xin Liau](#), [Pricilia Tanoto](#), [Shan Yao Liew](#), [Bocheng Qiu](#), [Gurveen Kaur Sandhu](#), [Jia Dong](#), [James Wang](#), [Kiirtaara Aravindhan](#), [Nagaendran Kandiah](#) ✉ ... See fewer authors ^



Built on years of research at LKC Medicine, NTU



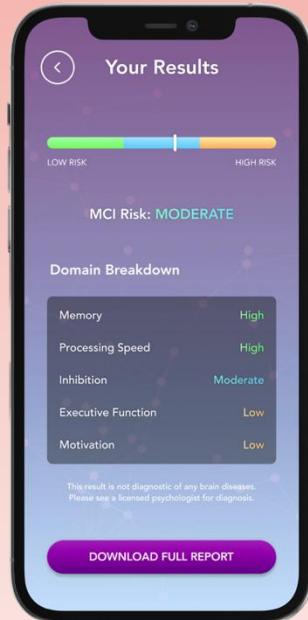
Building An end-to-end Platform for personalized brain healthcare



- Health Screenings
- Women's Health
- Preventative Health
- Longevity
- Wellness
- Specialist Clinics

1

Early Detection and Triaging ReCOGnAlze Digital Test



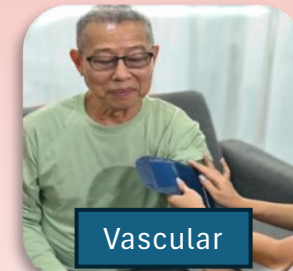
Hospitals/Clinics, Screenings,
Community, Remote

Various AI models



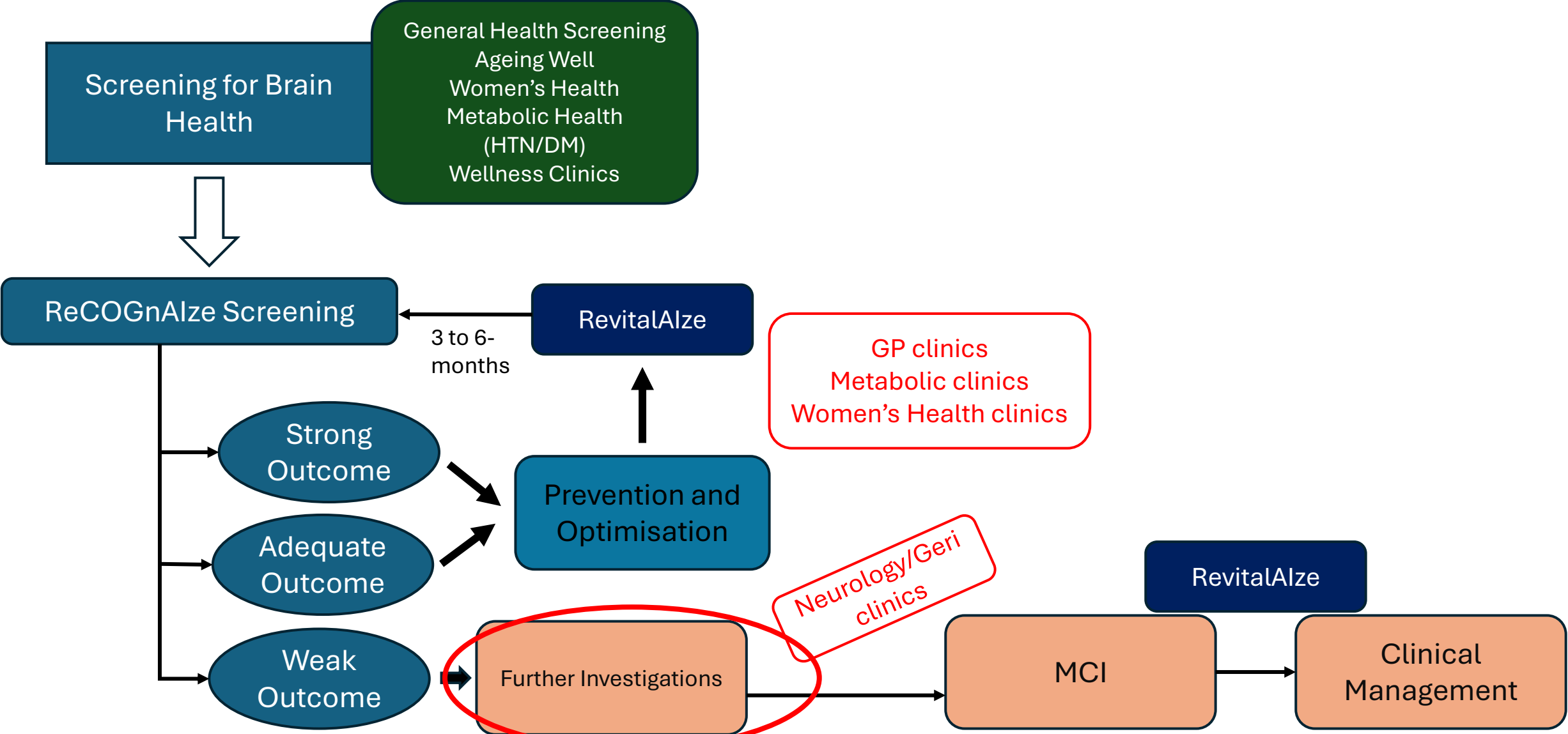
2

Personalised Cognitive Management RevitalAlze Platform



Partnerships with
Pharma/Supplements

Enhancing existing workflows, and driving more revenue



International and Regional Traction

International Discussions



**Weill Cornell
Medicine-Qatar**



**HIGH
TECH XL**



भारतीय विज्ञान संस्थान



中山大學 附属第一医院
The First Affiliated Hospital, Sun Yat-sen University

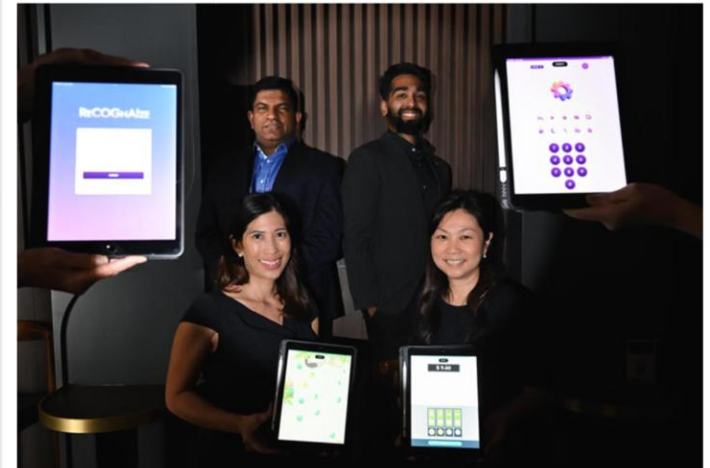


Regulatory & Commercial

- Software Medical Device registered in Singapore, Malaysia. ISO13485 certified.
- Osler Health, Bethesda Medical, Prologue, Caperneum Neurology, Subang Jaya Medical Centre (KL) among others

THE STRAITS TIMES

NTU launches AI-powered screening tool to detect pre-dementia in 15 minutes



Differentiation

Sub-Type Mild Cognitive Impairment

Vascular vs. Alzheimer's — different causes, different treatment pathways. No other digital tool performs this distinction.

- 90% AUC vs. MoCA's 70%
- Published in *Alzheimer's & Dementia*
- Sub-typing now critical as anti-amyloid therapies scale

Complete Care Pathway

Screen → Intervene → Monitor. The full continuum within a single platform.

- Keeps the patient inside the clinic's care ecosystem
- Not just a test — a long-term patient management system

Remote, Gamified, Deployable at Scale

Low hanging fruit for clinics and hospitals to add-on to their services

- Phone or tablet, QR code access
- No specialist required; 10–15 minutes
- Scales from a single GP clinic to a 40-hospital network

Built By a Multi-disciplinary Team, Backed by Leading Institutions and Experienced Advisors



Adnan Azam Mohammed
Co-founder & Director
Product, Tech
Bachelor in Robotics
& Entrepreneurship, NTU
Tech Lead, DRCS, LKCMedicine
PhD Candidate, LKCMedicine



A/Prof Nagaendran Kandiah
Co-founder
Medical, Neuroscience
MBBS, FRCP (Edinburgh)
Senior Consultant, NUH, KTPH
Director, DRCS, LKCMedicine
Assoc Prof of Neuroscience, NTU
Senior Clinician Scientist, NMRC

NTUitive Gap Fund (\$250K)
Innovation to Startup Grant (\$1.3M)



Singapore-MIT Alliance for Research and Technology



Ashwin Chari
Advisor

Director, NTU Innovation
Former CEO, Phillips Philippines




Judith Heikoop
Advisor

Serial Entrepreneur & Investor
Former CEO, Vivolta

Why now? An inflection point in brain health and preventative consumer health

HEALTH • CHIEF EXECUTIVE OFFICER (CEO)

Elon Musk says humans are ‘pre-programmed to die’ and longevity is ‘solvable’, raising huge questions about the future of health

By **Marco Quiroz-Gutierrez** 
Reporter

January 14, 2026, 4:43 AM ET

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FDA Clearance of First Blood Test for Use in Primary Care to Rule Out Alzheimer’s-Related Amyloid Pathology

2025

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Find out more:

www.graymattercognition.com



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