

ASX ANNOUNCEMENT

Actinogen CEO & CMO present at Sachs Neuroscience Innovation Forum & JPM Week meetings

Sydney, 8 January 2024. Actinogen Medical ASX: ACW ("ACW" or "the Company") is pleased to announce that Chief Medical Officer Dr Dana Hilt will present today at the Sachs Associates 7th Annual Neuroscience Innovation Forum in San Francisco (7 January USA PST). Dr Hilt is joined in San Francisco by ACW CEO Dr Steven Gourlay.

The Sachs Forum brings together large and small pharmaceutical companies and investors who are focused on neuroscience as a key component of their pipelines and portfolios. The audience includes buy and sell side analysts from investment banks and funds, along with partnering executives from pharma, biotech, medtech, neurotech and diagnostics companies.

After more than two years of subdued conditions and performance in the biotech sector, the neuroscience industry received a major boost in 2023 with approval of the anti-amyloid antibody drug Leqembi[™] for Alzheimer's disease and announcement of the Phase 3 success for donanemab. Recently, dealmaking has accelerated with the US\$8.7 billion Abbvie acquisition of Cerevel Therapeutics for their psychiatric and neurological treatments including those for schizophrenia, Parkinson's disease and mood disorders announced on 6 December, and the US\$14 billion acquisition of Karuna Therapeutics by Bristol Myers Squibb for their psychiatry and neurology assets, announced on 22 December.

While in San Francisco, Dr Gourlay and Dr Hilt will also participate in a significant number of partnering, analyst and investor meetings associated with the 42nd Annual J.P. Morgan Healthcare Conference from 8 to 12 January (JPM Week).

The information used for all Sachs Innovation Forum and JPM Week presentations and meetings is attached to this announcement or has been previously announced.

The attached presentation recaps the success of Xanamem,[®] ACW's novel pro-cognitive and potentially disease-modifying small molecule drug and examines the two near-term major Phase 2 readouts in Depression and Alzheimer's disease in 2024 and 2025 respectively.

Dr Steven Gourlay, Actinogen's CEO and Managing Director, said:

"In San Francisco we are focused on briefing potential pharmaceutical partners on our progress and planned data readout for the XanaCIDD Phase 2a depression trial in less than 6 months. Novel mechanisms to successfully treat depression are very important and valuable clinical opportunities.

"We will also be briefing potential partners on the XanaMIA Phase 2b Alzheimer's disease trial, which is expected to release interim results on the first 100 patients in the first half of 2025. We have a high level of

[®] Xanamem is a registered trademark of Actinogen Medical Limited

confidence in the utility of Xanamem for treating Alzheimer's disease based on the positive results seen in three prior independent, placebo-controlled trials."

ENDS

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Announcement authorised by the Board of Directors of Actinogen Medical

About Actinogen Medical

Actinogen Medical (ACW) is an ASX-listed, biotechnology company developing a novel therapy for neurological and neuropsychiatric diseases associated with dysregulated brain cortisol. There is a strong association between cortisol and detrimental changes in the brain, affecting cognitive function, harm to brain cells and long-term cognitive health.

Cognitive function means how a person understands, remembers and thinks clearly. Cognitive functions include memory, attention, reasoning, awareness and decision-making.

Actinogen is currently developing its lead compound, Xanamem,[®] as a promising new therapy for Alzheimer's Disease and Depression and hopes to study Fragile X Syndrome and other neurological and psychiatric diseases in the future. Reducing cortisol inside brain cells could have a positive impact in these and many other diseases. The cognitive dysfunction, behavioural abnormalities, and neuropsychological burden associated with these conditions is debilitating for patients, and there is a substantial unmet medical need for new and improved treatments.

Current and Upcoming Clinical Trials

The **XanaCIDD Phase 2a depression trial** is a double-blind, six-week proof-of-concept, placebo-controlled, parallel group design trial in 160 patients. Patients are evenly randomized to receive Xanamem 10 mg once daily or placebo, in some cases in addition to their existing antidepressant therapy, and effects on cognition and depression are assessed.

The **XanaMIA Phase 2b Alzheimer's disease trial** is a double-blind, 36-week treatment, placebo-controlled, parallel group design trial in 220 patients with mild to moderate AD and progressive disease, determined by clinical criteria and confirmed by an elevated level of a pTau protein biomarker in blood. Patients receive Xanamem 10 mg or placebo, once daily, and effects on cognition, function and progression of Alzheimer's disease are assessed. Thus, Xanamem is being assessed in this trial for its potential effects as both a cognitive enhancer and a disease course modifier.

About Xanamem

Xanamem's novel mechanism of action is to block the production of cortisol inside cells through the inhibition of the 11β-HSD1 enzyme in the brain. Xanamem is designed to get into the brain after it is absorbed in the intestines upon swallowing.

Chronically elevated cortisol is associated with cognitive decline in Alzheimer's Disease and excess cortisol is known to be toxic to brain cells. Cognitive impairment is also a feature in Depression and many other diseases. Cortisol itself is also

[®] Xanamem is a registered trademark of Actinogen Medical Limited

associated with depressive symptoms and when targeted via other mechanisms has shown some promise in prior clinical trials

The Company has studied 11β-HSD1 inhibition by Xanamem in approximately 350 volunteers and patients, so far finding a statistically significant improvement in working memory and attention, compared with placebo, in healthy, older volunteers in two consecutive trials and clinically significant improvements in functional and cognitive ability in patients with biomarker-positive mild AD. Previously, high levels of target engagement in the brain with doses as low as 5 mg daily have been demonstrated in a human PET imaging study. A series of Phase 2 studies in multiple diseases is being conducted to further confirm and characterize Xanamem's therapeutic potential.

Xanamem is an investigational product and is not approved for use outside of a clinical trial by the FDA or by any global regulatory authority. Xanamem® is a trademark of Actinogen Medical.

Disclaimer

This announcement and attachments may contain certain "forward-looking statements" that are not historical facts; are based on subjective estimates, assumptions and qualifications; and relate to circumstances and events that have not taken place and may not take place. Such forward looking statements should be considered "at-risk statements" - not to be relied upon as they are subject to known and unknown risks, uncertainties and other factors (such as significant business, economic and competitive uncertainties / contingencies and regulatory and clinical development risks, future outcomes and uncertainties) that may lead to actual results being materially different from any forward looking statement or the performance expressed or implied by such forward looking statements. You are cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof. Actinogen Medical does not undertake any obligation to revise such statements to reflect events or any change in circumstances arising after the date hereof, or to reflect the occurrence of or non-occurrence of any future events. Past performance is not a reliable indicator of future performance. Actinogen Medical does not make any guarantee, representation or warranty as to the likelihood of achievement or reasonableness of any forward-looking statements and there can be no assurance or guarantee that any forward-looking statements will be realised.

ACTINOGEN MEDICAL ENCOURAGES ALL CURRENT INVESTORS TO GO PAPERLESS BY REGISTERING THEIR DETAILS WITH THE DESIGNATED REGISTRY SERVICE PROVIDER, AUTOMIC GROUP.



Xanamem: A novel pro-cognitive and potentially disease modifying drug

Two near-term major Phase 2 readouts in Depression and Alzheimer's disease in 2024 & 2025

Presented at the 7th Sachs Neuroscience Innovation Forum and JPM week meetings San Francisco, 7 - 12 January 2024

Non-confidential



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Xanamem: Oral, once-a-day treatment with a unique, non-amyloid/non-tau mechanism

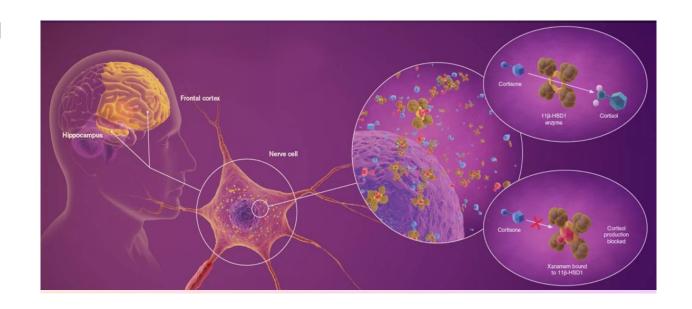


Mouse experimental studies & clinical trials validate cortisol as a target for the treatment of AD¹⁻⁴ Inflammation and glucose/lipid dysregulation emerging as key mechanisms in AD⁵

Xanamem is a brain penetrant 11β-HSD1 small molecule enzyme inhibitor which reduces brain cortisol^{3,4}

Potential to be:

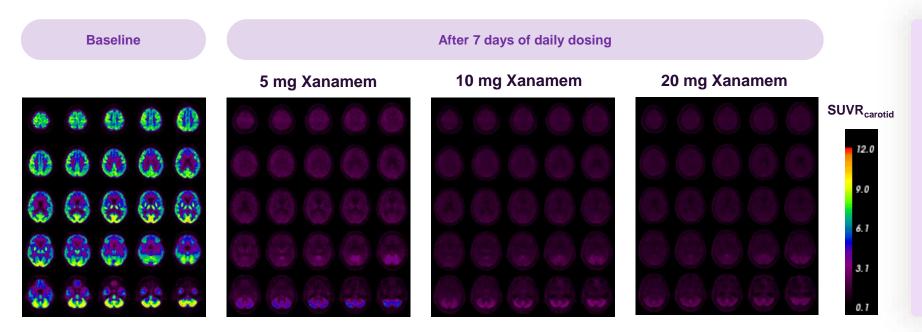
- Rapidly cognitive enhancing
- **Disease-modifying** (slowing progression)^{1,3}
- Anti-depressant effects
- Anti-inflammatory effects
- Insulin sensitizing





PET data shows full target engagement in the brain at low doses

Previous enzyme inhibitors¹ have not achieved adequate brain concentrations



PET data² demonstrates that Xanamem extensively binds to the 11β-HSD1 enzyme throughout the brain, with high post-treatment effects (absence of colour) after 7 days at all doses, slightly less at a 5 mg dose.

This is consistent with full hormonal pharmacodynamic activity seen in clinical trials with doses as low as 5 mg.

^{1.} ABT-384 was claimed to have brain penetrant ability based on likely hepatic effects on deuterated cortisol (Katz et al. 2013), negative 12-week AD trial (Marek et al. 2014)

Two large clinical opportunities: Depression and AD



Rapidly acting oral therapy with dual action on cognitive impairment / depression

Depression market size ~\$17 billion in 2032

Cognitively enhancing and disease modifying oral therapy for all stages of Alzheimer's disease not just MCI Alzheimer's market ~\$14 billion in 2030

https://www.futuremarketinsights.com/reports/depression-treatment-market 3 Nov 2023



Actinogen Xanamem Phase 2 trials underway

De-risked by extensive existing clinical data from four previous trials of Xanamem 10mg

Phase 2a proof-of-concept trial in Depression/Cognitive Impairment (n=160)

Results Q2 2024

Phase 2b confirmatory trial in mild-moderate Alzheimer's disease (n=220)



Targeting brain cortisol with Xanamem is a promising strategy in depression

- √ 80-90% of MDD patients report neurocognitive symptoms¹
- ✓ Cognitive symptoms often persist during remission¹
- ✓ Elevated cortisol associated with severe, melancholic depression²
- Cortisol levels associated with treatment outcomes, relapse, & cognition³
- ✓ Positive effects with GR receptor antagonism with mifepristone⁴
- Meta-analysis of clinical cortisol approaches⁵

 Xanamem has improved human cognition in 2 trials with same cognitive endpoint to be used⁶



^{1. 3-}year prospective study and review, Conradi et al. 2011

^{2.} Quantitative summary of four decades of research, Stetler & Miller 2011

Depression literature review, Malhi & Mann 2018; HPA axis in major depression, Keller et al. 2016

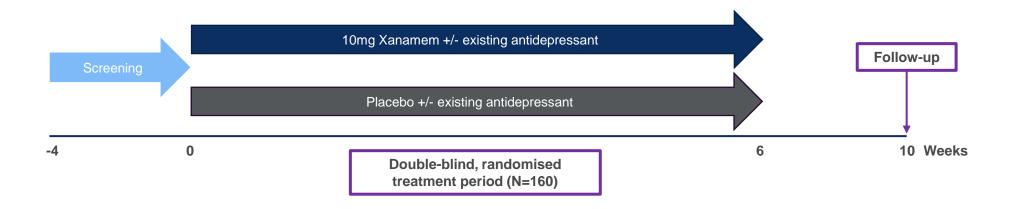
GR, glucocorticoid receptor; Combined analysis of mifepristone for psychotic depression, Block et al. 2018; mifepristone effects on depression in biopolar disorder, Young et al. 2004; Evidence from clinical studies with CRH₁ receptor antagonists, Holsboer & Ising 2008

^{5.} Meta-analysis of prior trials aimed at reducing cortisol, Ding et. al 2021

[.] Two Xanamem placebo-controlled trials showing improved working memory & attention (Actinogen data on file)

XanaCIDD proof-of-concept Phase 2a trial in **Depression and Cognitive Impairment**





Key inclusion/exclusion criteria	Primary Endpoints	Key Secondary Endpoints	Key Implementation Features
 Primary diagnosis of MDD Persistent depressive symptoms/deficit despite existing therapy or no therapy Cognitive impairment relative to demographic norms (~0.5 SD) 	Cogstate Cognitive Test Battery Attentional Composite (attention and working memory)*	 Montgomery-Åsberg Depression Rating Scale (MADRS) Executive Function Cognitive Composite Memory Function Cognitive Composite 	 Australia & UK trial sites Actinogen "hands-on" operational model ~100 enrolled Final Results Q2 CY24





The answers to Alzheimer's Disease are starting to emerge in the clinic...

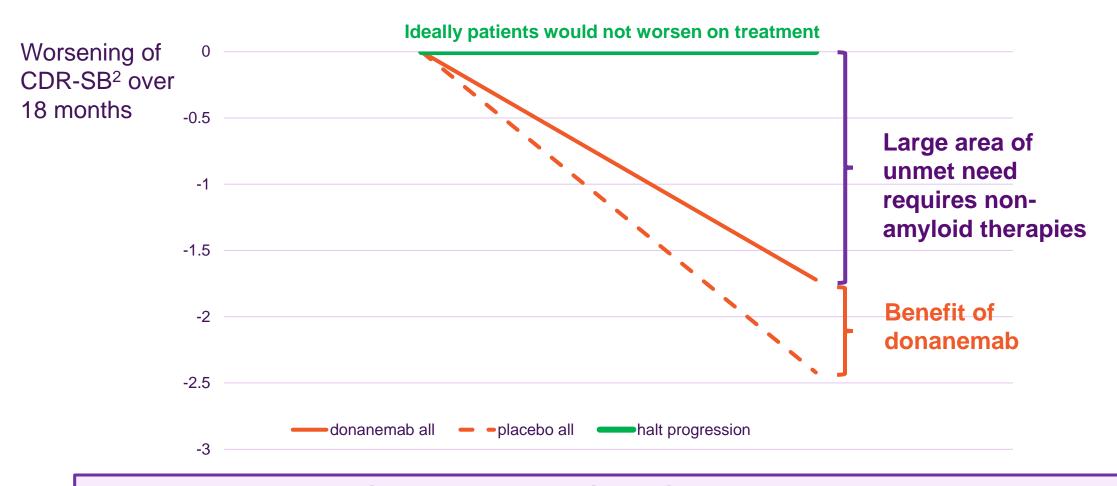
Alzheimer's proteins amyloid and tau are the pathology – not the cause...

Clearing amyloid produces a very modest benefit

Other causal processes are involved like inflammation, lipids and glucose handling...

Newer anti-amyloid "immunotherapy" antibodies shown to slow but not halt progression of AD¹





Drugs targeting other mechanisms like Xanamem are needed

^{1.} Donamemab is an anti-amyloid antibody given as an intravenous infusion every 4 weeks until amyloid clearance (Sims JR at al. *JAMA*. Published online July 17, 2023. Sachs Neuroscience Innovation Forum January 2024 10 doi:10.1001/jama.2023.13239 Data shown are for whole population studied with absolute difference to placebo of 0.7 points, intermediate tau population difference also 0.7 points

^{2.} CDR-SB is an 18-point scale measuring functional status on an 18 point scale, patients in the donanemab trial had an average baseline score of 4 ± 2 points



Dr Howard Fillit, Founder Alzheimer's Drug Discovery Foundation¹

"Seventy-eight percent of all drugs in clinical development are nonamyloid, non-tau drugs.

Multiple targets are being addressed now, which is great for the field because I think the way we're going to have to go is combination therapy, addressing all the multiple pathways that are involved in Alzheimer's."

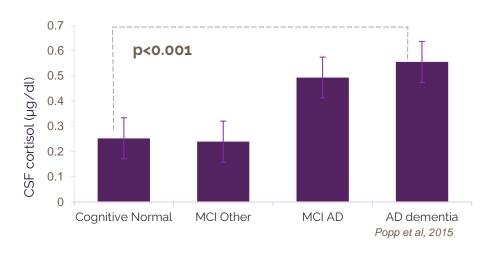
Cortisol in AD: Guilt by association



- Multiple studies support the association between elevated cortisol and AD development and progression¹⁻⁵
- Cognitive impairment in patients with neuroendocrine dysfunction⁶⁻⁹
- Compelling evidence provided by the Australian Imaging, Biomarker & Lifestyle Study of Ageing (AIBL) study (2017)⁵
 - Higher plasma cortisol leads to a much greater risk of developing **AD**
- Individuals with the APOE-E4 allele have higher CSF cortisol⁸
- Higher CSF cortisol levels in AD patients are associated with more rapid clinical worsening and cognitive impairment^{10,11}
- High cortisol and low folate predict probable Alzheimer's disease after age 75¹²



MEAN CSF CORTISOL LEVELS

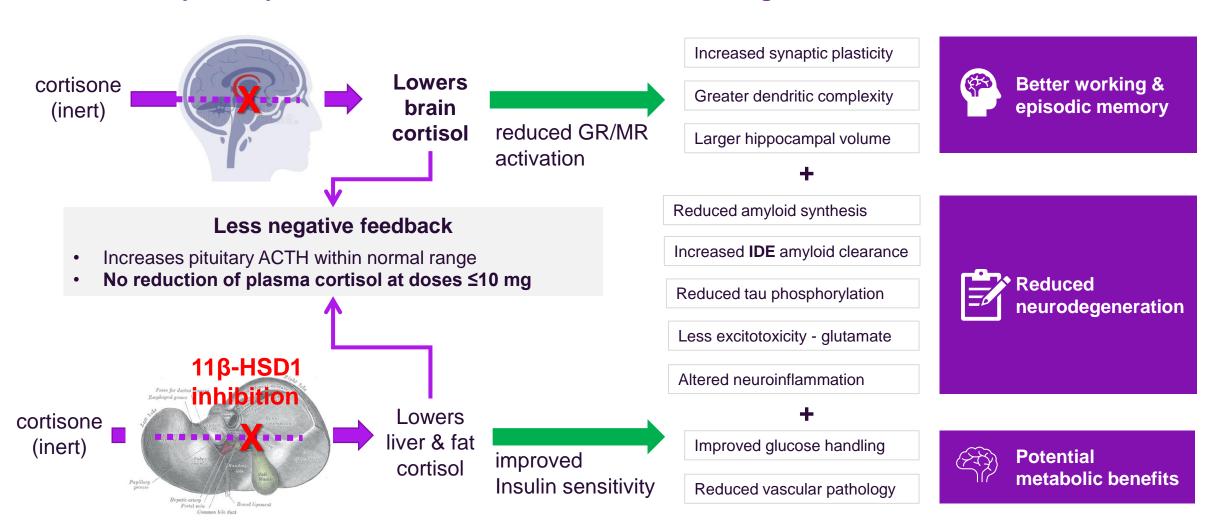


[1] Geerlings et al., 2015, Neurology 85: 1-8; [2] Lehallier et al., 2016, JAMA Neurology 73(2), 203-212; [3] Popp et al., 2015, Neurobiol. Aging 36:601–607; [4] Ennis et al., 2017, Neurology 88(4):371-378; [5] Pietrzak et al., 2017, Biol Psychiatry: Cognitive Neuroscience and Neuroimagery, 2:45-52; [6] Lupien et al., 2009, Nat Rev Neurosci 10:434-445; [7] Starkman et al., 1999, Biol Psychiatry 46: 1595-1602; [8] Lupien et al., 1998, Nat Neurosci 1:69-73; [9] MacLullich et al., 2005, Psychoneuroendocrinology 30:505-515; [10] Cernansky et al., 2006, Am J Psychiatry 163:2164-2169; [11] Kornhuber & Jensen, 2015, Neurobiol Aging 36:601-607; [12] Hinterberger et al., J Am Ger Soc 2013 61(4):648-651;

11B-HSD1 inhibition and attenuated cognitive decline



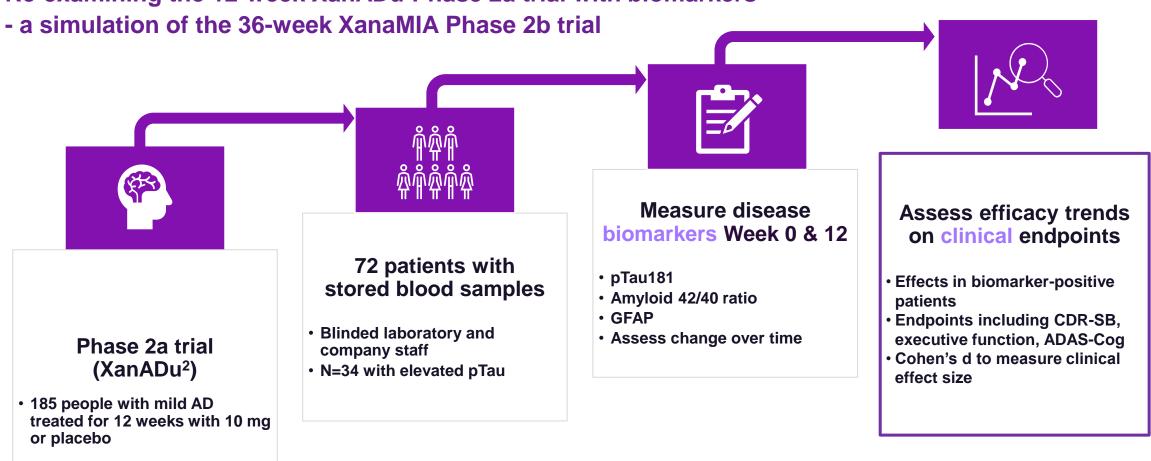
Xanamem has pleiotropic mechanisms of action to reduce or halt cognitive decline



Methods for double-blind, <u>prospective</u> assessment of biomarker-positive mild AD patients in Phase 2a¹



Re-examining the 12-week XanADu Phase 2a trial with biomarkers



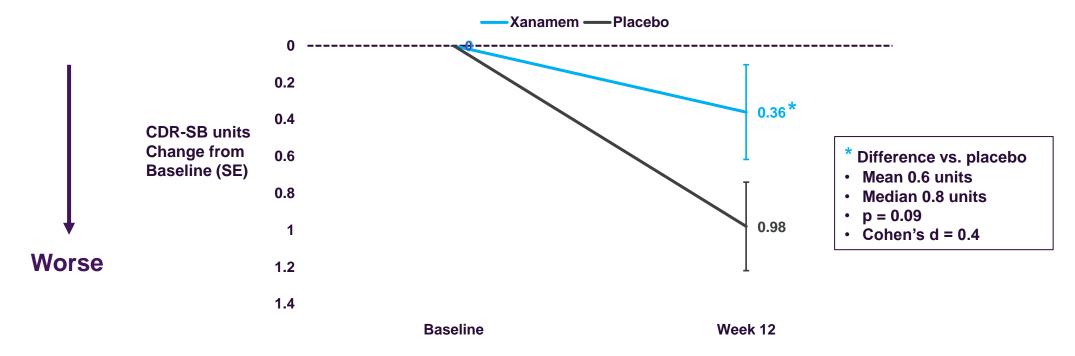
^{1.} Used a pre-specified protocol and statistical analysis plan, blinded laboratory and company personnel

^{2.} Prior phase 2a trial completed in 2019 included participants with a clinical diagnosis but no PET or biomarker confirmation https://clinicaltrials.gov/ct2/show/results/NCT02727699?term=actinogen&draw=2&rank=3

Xanamem significantly slows the rate of functional decline (CDR-SB) in patients with mild AD*



Patients with elevated plasma pTau181 indicating progressive, amyloid-positive disease (n=34)



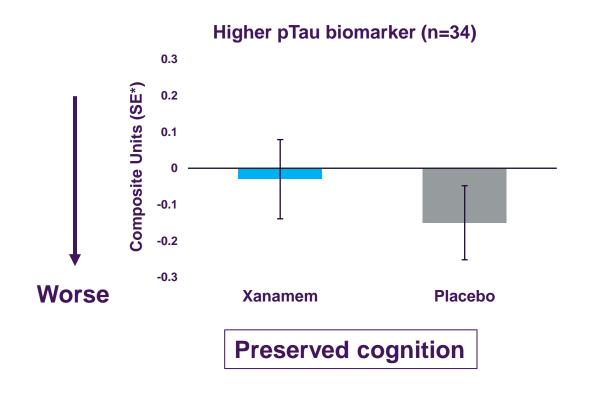
Xanamem benefits extrapolated to 18 months would produce a large effect size

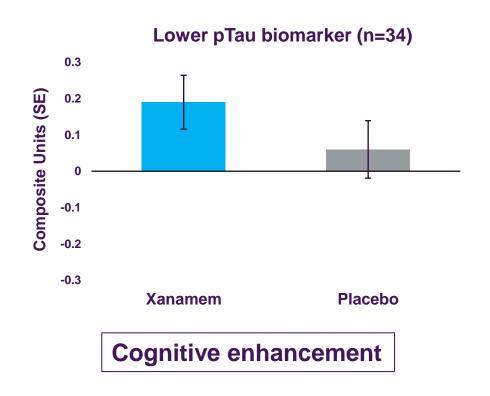
^{*} CDR-SB Clinical Demetia Rating Scale - Sum of Boxes is a measure of patient function and is an endpoint used by the FDA; Patients with a pre-treatment plasma pTau181 level greater than the prespecified median of 6.74 pg/mL to indicate AD pathology and likelihood of progressive disease; similar effect size for pTau >10.2 pg/mL cutoff; extrapolated effect size 8-10 times greater than 0.4-0.45 reported for lecanemab (USPI Legembi 2023 & van Dvck et al. 2022; DOI: 10.1056/NEJMoa2212948) if extrapolated to 18 months; no treatment effect detected in ADASCog-14 or ADCOMS

Cognitive improvements suggest potential clinical benefits across dementia patient sub-types*



Positive trends in both high and low plasma pTau biomarker groups





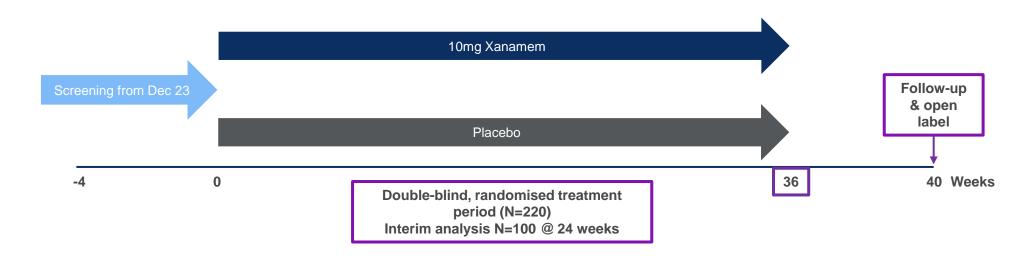
Consistent with Xanamem activity as a cognitive enhancer & disease-modifier

^{*} Post hoc analysis of composite of word recall & recognition, CFT & COWAT tests (p=NS), error bars show Standard Error of the Mean; low pTau patients less likely to have amyloid-positive disease, results consistent with volunteer data shown in Slide 7

XanaMIA Phase 2b trial in Alzheimer's Disease



Matching patients and endpoints in Phase 2b as in the positive Ph 2a analysis

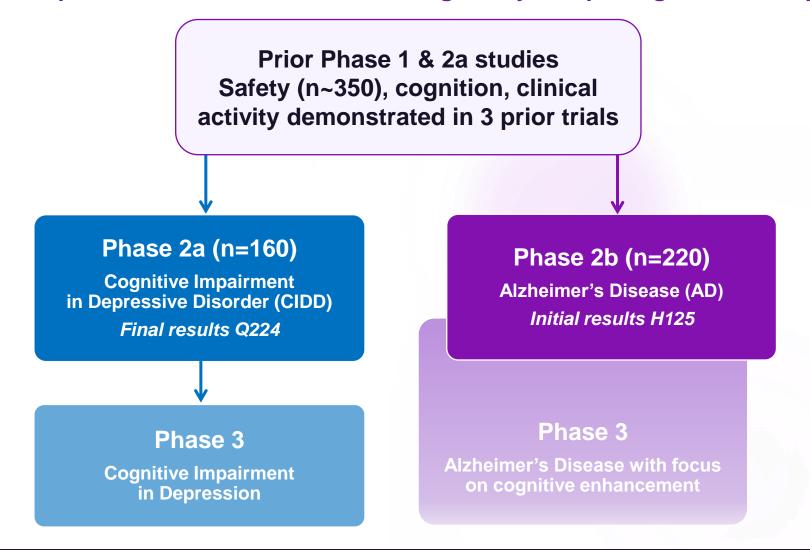


Key inclusion/exclusion criteria	Primary Endpoints	Key Secondary Endpoints	Key Implementation Features
 Clinical diagnosis of mild to moderate dementia due to AD (NIA-AA, MMSE 18-26) Elevated blood p-tau181 to confirm progressive AD diagnosis Cognitive impairment test deficit 	Cognitive Test Battery (7 cognitive measures)	 CDR-SB (functional measure) Amsterdam Activity of Daily Living scale Executive Function & Episodic Memory Function Composites Care Giver questionnaire / Patient Global Improvement 	 Initial 100 patients in Australia with Administrative IA in H1CY25 Expand to global trial sites including US, Asia, EU and other post IA Actinogen "hands-on" operational model assures high quality

Xanamem AD & Depression programs



Building on multiple Phase 1 and 2 studies showing safety and procognitive activity





Appendix





Actinogen summary

Actinogen Medical (ASX:ACW) is conducting Phase 2 trials of oral Xanamem in patients with cognitive impairment associated with depression and Alzheimer's disease. Results due in 2024 and 2025.



Attractive disease indications and rationale





Favourable pharmaceutical properties

- Demonstrated target engagement in brain and HPA axis¹ in human trials
- ✓ Low dose and cost of goods, ≤10mg
- ✓ Low drug-drug interaction potential suitable for combination therapy



Substantial clinical data

- √ ~350 subjects or patients safely treated
- Cognitive enhancement activity in three placebo-controlled trials
- Clinical benefit in biomarker-positive AD patients (Phase 2a data)



Protected and funded

- Molecule in-licensed from U Edinburgh in 2014 to ASX-listed shell company
- Key patents in place² ~A\$110m funding for Xanamem program to date
- ✓ Cash incl. receivables ~A\$18m & mkt cap. ~A\$50m (30 Sept 2023)



High functioning semi-virtual company model

- Core team of 15 highly skilled employees based in Australia & US
- Leveraging senior consultants in various fields in Australia, Asia, UK and USA
- Our Australian-based projects gain 48% as R&D cash rebate

^{1.} Hypothalamic-Pituitary-Adrenal axis (body's system to regulate blood levels of cortisol)

^{2.} Composition of matter to 2031 plus 5-year extension in most countries, new patents published and in process including use and manufacturing

Summary: Why targeting brain cortisol with Xanamem is a promising strategy in Alzheimer's disease



Multiple streams of data support the hypothesis

Epidemiology, cortisol and animal experiments

- ✓ Cortisol levels are elevated in brain fluid in early Alzheimer's^{1,2}
- Chronic corticosteroid treatment leads to hippocampal atrophy and cognitive impairment³
- ✓ Elevated cortisol levels are associated with clinical progression⁴⁻⁷
- Animal models of 11β-HSD1 inhibition show neuroprotection independent of amyloid

Clinical trials of Xanamem

- ✓ Inhibits brain 11β-HSD1 target to a high degree in PET study at well tolerated doses⁸
- ✓ Improves attention & working memory (2 trials)⁹
- ✓ Slows progression in CDR-SB and cognition in biomarker-positive patients with mild AD (1 trial)¹⁰
- ✓ Safety demonstrated in ~350 people (5 trials)

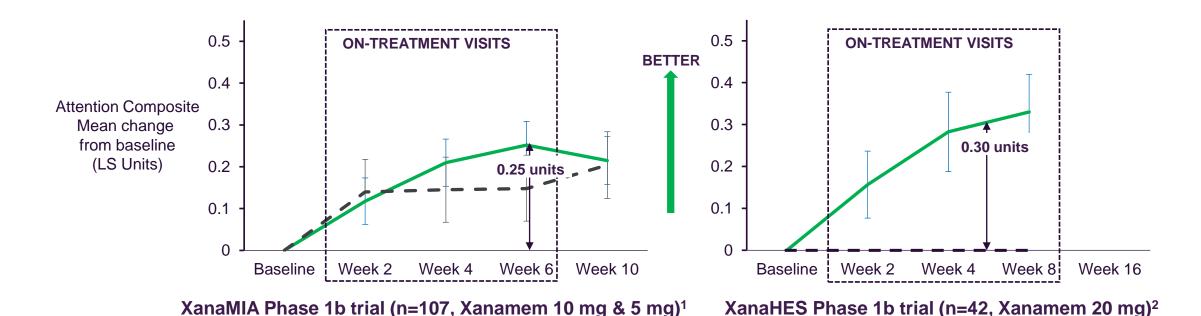
Same pattern of attention & working memory improvement in older volunteers in two independent placebo-controlled trials



Xanamem clinical data – efficacy to improve attention and working memory

The Benefit of Xanamem for AD Patients - Efficacy

 The same pattern* of improved attention and working memory was observed in healthy older volunteers (aged 50 to 75 / 80 years) utilising the Cogstate computerised test battery in XanaMIA & XanaHES trials



* "Attention composite" of working memory/visual attention/psychomotor speed (mean, SE)

[.] Placebo n=32, combined doses vs. placebo at 6 weeks Z = 1.29

^{2.} Placebo group values were all below zero, not shown, n=12, 20mg dose vs placebo at 8 weeks Z = 1.20

Experienced Leadership and Management



Extensive drug development and commercial experience

Experienced Board of Directors...



Dr. Geoff Brooke Chairman MBBS: MBA







- 30+ years experience in the healthcare investment industry
- Founder and MD of Medvest Inc and GBS Ventures, Chairman of Cynata Therapeutics, Board Member of Acrux



Dr. George Morstyn Non-Executive DirectorMBBS; PhD; FRACP; MAICD





- 25+ years experience in biotech investment and drug development
- Board member of Cancer Therapeutics and Symbio



Mr. Malcolm McComas
Non-Executive Director
BEc, LLB; FAICD; SF Fin



- 25+ years experience in the financial services industry
- Chairman of Pharmaxis and Fitzroy River Corporation



Dr. Nicki Vasquez
Non-Executive Director
PhD

SUTRO BIOPHARMA

- 25+ years experience in biopharmaceutical discovery research and development
- Chief Portfolio Strategy & Alliance Officer at Sutro Biopharma



Dr. Steven Gourlay
CEO & MD
MBBS; FRACP; PhD; MBA



- 30+ years experience in development of novel therapeutics
- Former founding CMO at US-based Principia Biopharma Inc



...with a talented management team in place

Will Souter
Chief Financial Officer
B. Fin Admin; M. App. Fin; CA



Cheryl Townsend

VP Clinical Operations

RN, M Health Law



Dana Hilt
Chief Medical Officer
MD



Fujun Li
Head of Manufacturing
PhD



Michael Roberts

Head of Investor Relations and Communications

B.Ec (Hons), CPA, F FIN

International Cognition Clinical Advisory Board



Preeminent global thought-leaders in clinical trials for assessment of cognition



Prof. John Harrison



- Expert psychologist with a special interest in cognition
- Chartered psychologist with two PhDs and author/co-author of more than 80 books and scientific articles
- Principal Consultant at Metis Cognition, which advises on selection and integration of cognitive testing into therapeutic development programs



Dr Dana C. Hilt (CMO)



- 25+ years of drug development experience, primarily of Central Nervous System (CNS) drugs
- Deep experience in Phases 1 to 4 drug development
- CMO at Frequency Therapeutics and has held senior management positions as Chief Medical Officer at various pharmaceutical companies



Dr Christina Kurre Olsen



- 20+ vears research expertise in neuroscience. neuropsychopharmacology, CNS therapeutics and monoclonal antibody immunotherapy
- Strong hands-on knowledge across drug development value chain and a passion for cognition
- Medical Director at Orphazyme A/S



Prof. Paul Maruff



- Chief Innovation Officer at Cogstate Ltd
- Professor in Neuroscience at the Florev Institute of Neuroscience and in Psychology Monash University, Melbourne Australia
- Senior management committee of the Australian Imaging, Biomarkers and Lifestyle (AIBL) study of Alzheimer's Disease
- Involved in the development and approval of 13 new drugs that affect cognition including most recently esketamine for treatment resistant depression



A/Prof Christopher Chen



- · Senior Clinician-Scientist, Associate Professor at the Departments of Pharmacology and Psychological Medicine, Yong Loo Lin School of Medicine, National University of Singapore, and Director of the Memory Aging and Cognition Centre, National University Healthcare System.
- Major research and clinical interests are in neuroimaging, molecular biology and treatment of stroke and dementia.
- President of the Asian Society Against Dementia. Secretary-Treasurer of the Asian & Oceanian Association of Neurology.

International Scientific Advisory Boards



Preeminent thought-leader academics involved in the development of Xanamem

Alzheimer's Disease Clinical Advisory Board



Prof. Craig RitchieChair



THE UNIVERSITY of EDINBURGH

- World-leading authority on dementia; senior investigator on 30+ drug trials
- Chair of the Scottish
 Dementia Research
 Consortium; Professor of the
 Psychiatry of Ageing' Director
 of the Centre for Dementia
 Prevention (University of
 Edinburgh)



Prof. Colin Masters







- 35+ years research on Alzheimer's Disease and other neurodegenerative diseases
- Laureate Professor of Dementia Research and Head, Neurodegeneration Division at The Florey Institute (UniMelb)



Prof. Jeffrey Cummings



- World-renowned Alzheimer's researcher and leader of clinical trials
- MD, ScD; Founding Director of the Cleveland Clinic Lou Ruvo Center for Brain Health
- Recognised for his work through various awards

Scientific Advisory Board



Prof. Jonathan Seckl



- Undertaken extensive research in endocrinology
- Senior VP at the university of Edinburgh; Chaired Panels for MRC, Innovate UK and Wellcome Trust
- MBBS UCL, PhD (London)



Prof. Brian Walker



- 20+ years research in the area of disease
- Extensive experience advising for pharmaceutical R&D
- Pro Vice Chancellor for Research Strategy & Resources at Newcastle University, UK



Prof. Scott Webster



- Chair of Medicines at the Centre of Cardiovascular Science, University of Edinburgh
- Former positions across both biotech and academia
- Founder and Chief Scientific Officer at Kynos Therapeutics

Selected glossary 1



11β-HSD1 11 beta HydroxySteroid Dehydrogenase-1 enzyme. Selectively expressed in brain, liver, adipose.

Aß Amyloid beta – a type of amyloid protein associated with Alzheimer's Disease, 42 and 40 are different forms

ACTH Adrenocorticotropic hormone that regulates blood levels of cortisol

ADAS-Cog Alzheimer's Disease Assessment Score - Cognition

ApoE4 Apoprotein genotype associated with genetic risk of Alzheimer's Disease

ATN Amyloid, Tau, Neurodegeneration

Clinical scales Measure how a patient feels, performs and functions

CDR-SB Clinical Dementia Rating "Sum of Boxes" scale measuring cognition and function on an 18-point scale (high worse)

CNS Central nervous system

CSF Cerebrospinal fluid

CTAD Clinical Trials on Alzheimer's Disease (conference)

CTB Cognitive Test Battery of computerized tests

Double-blind Investigators, participants and company do not know who has active vs placebo treatment during a trial

EMA European Medicines Agency

FDA US Food & Drug Administration

Filamen A a protein believed to relate to amyloid toxicity

GFAP Glial Fibrilliary Acidic Protein – a marker of microglial cell activation in the brain

IDSST International Digit Symbol Substitution Test of cognition

Selected glossary 2



IQCODE Informant Questionnaire on Cognitive Decline in the Elderly

MCI Mild Cognitive Impairment – memory, executive function deterioration with retained functional abilities

MDD Major Depressive Disorder

MMSE Mini Mental State Examination – a 30-point scale of simple questions to assess mental abilities

NfL Neurofilament Light – a nerve protein in the brain and rest of the body too

NIA-AA National Institutes of Aging and Alzheimer's Association

NMDA a type of receptor for glutamate in the brain

NPI Neuropsychiatric Inventory to assess psychiatric symptoms

NTB a Neurologic Test Battery, in this presentation one designed to measure executive function aspects of cognition

PET Positron Emission Tomography – a type of body scan

Placebo controlled Non-active treatment for double-blind design

p-Tau181 or 217 AD biomarker of phosphorylated Tau protein

QPCT Glutaminyl-peptide cyclotransferase is an enzyme proposed to create toxic amyloid species

RAVLT Rey Auditory Visual Learning Test

RBANS Repeatable Battery for the Assessment of Neuropsychological Status (a test of mental abilities)

ROC AUC Receiver Operating Curve Area Under the Curve (1.0 ideal) – a type of statistical test to compared two methods of measurement

Tau – a brain protein

Ttau - total tau levels including both phosphorylated and non-phosphorylated tau



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