ARGENICA THERAPEUTICS INVESTOR PRESENTATION ASX: AGN

OCTOBER 2023

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INTRODUCTION TO ARGENICA

NOVEL NEUROPROTECTIVE TREATMENTS



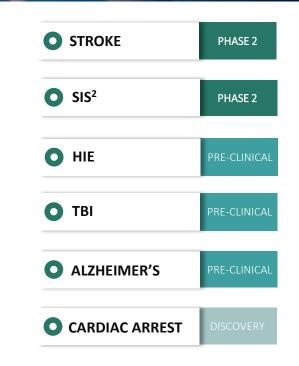


ARG-007 Argenica's novel neuroprotective drug

- Reduces brain damage after stroke and other brain injuries¹
- Over a decade of development
- Potential to change stroke treatment

- There are <u>no</u> marketed drugs that protect the brain after stroke
- ARG-007 aims to fill this urgent and **unmet clinical need**
- There is **increasing interest** in neuroprotection from big pharma
- Untapped commercial opportunity with limited competition

TARGETING MULTIPLE INDICATIONS



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1. Preclinical animal studies. Argenica's lead drug candidate ARG-007 is under development and subject to clinical validation

- 2. Data collected from the recent Phase 1 clinical trial could potentially be used to progress directly into surgically induced stroke (SIS) Phase 2 trials

KEY COMPANY METRICS



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THE DEVASTATING IMPACT OF STROKE

INCIDENCE



ONE IN FOUR

people will suffer a stroke in their lifetime¹

SOCIETAL IMPLICATIONS



ONLY 10%

will recover almost completely, due to the extent of brain cell damage¹

THE IMPORTANCE OF TIME



1.9 MILLION

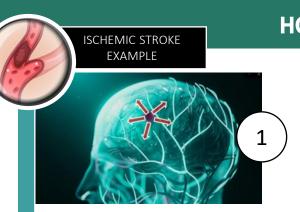
brain cells are attacked each minute during a stroke²

Current markets cater to treatment & diagnosis of stroke, <u>not</u> protecting brain cells

ARG-007 COULD PROVIDE A SOLUTION

ARG-007

- Cationic poly-arginine peptide
- Multiple mechanisms of action
- Granted patents & strong IP
- Significant pre-clinical efficacy
- 25+ peer reviewed papers
- Proven safe for healthy humans



HOW IT WORKS

INITIAL INFARCTION (STROKE) SETS OFF A CASCADE OF CELL DEATH



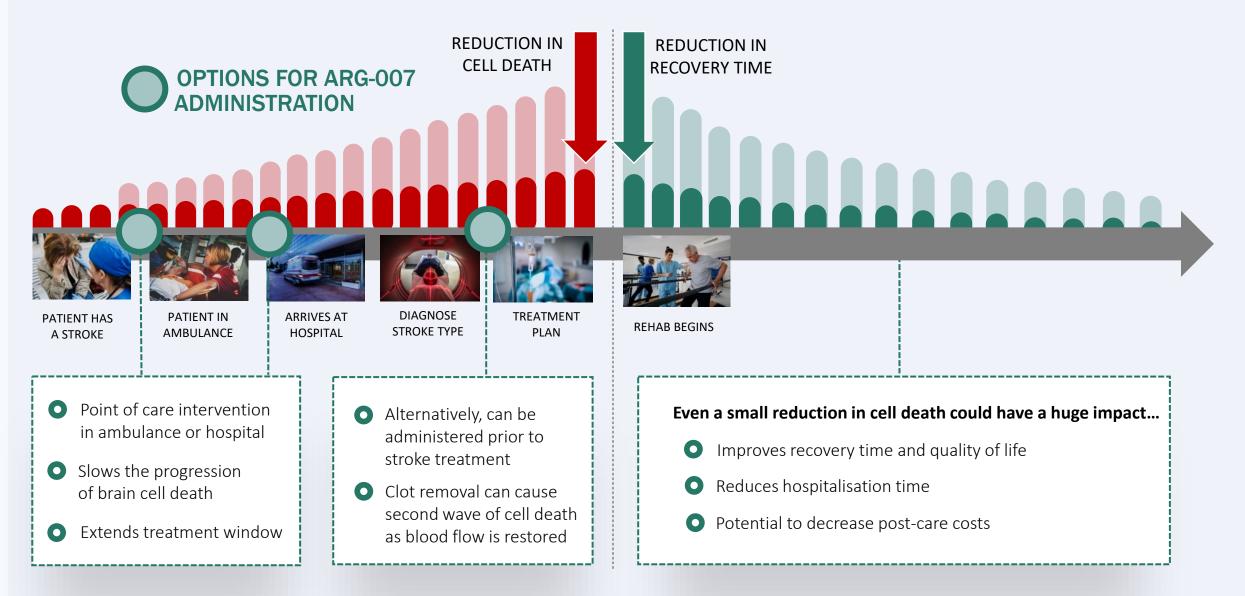


CELL DEATH WILL CONTINUE SPREADING FROM LOCATION

ARG-007 STOPS THE CASCADE OF CELL DEATH & PROVIDES A <u>PROTECTION BARRIER</u> AROUND THE INITIAL INFARCTION

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IMPLICATIONS FOR STROKE PATIENTS



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THE IDEAL STROKE THERAPEUTIC

PREVIOUS BARRIERS FOR NEUROPROTECTIVE DRUGS

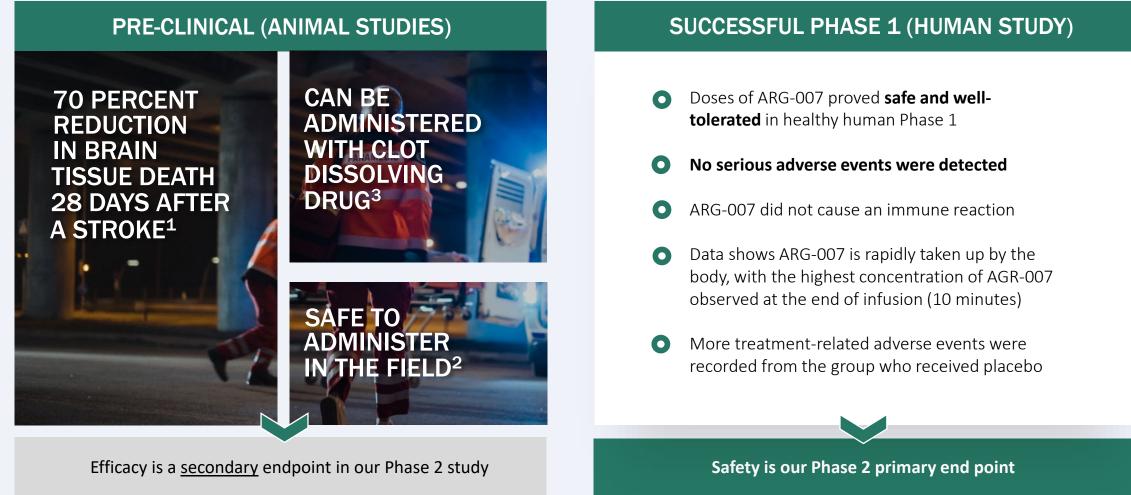
- Do not fit into current standard of care
- Past drugs focused on targeting **singular** mechanisms of action and used ineffective models
- Single target treatments <u>have not</u> been effective in clinical trials
- Industry is seeking drugs that target multiple pathways for stroke¹

WHAT SETS ARG-007 APART

- ARG-007 has multi-functional mechanisms of action
- Has shown **significant efficacy** in different animal models of ischaemic stroke
- Cell penetrating peptide can deliver therapeutic agent to the injured brain
- Is not degraded by current standard of care clot dissolving drugs²
- Does not exacerbate bleeding³

- 1. Recommendations from the Stroke Treatment Academic Industry Roundtable (STAIR) urged a focus on plurifunctional agents that target multiple pathways for effective stroke therapy
- 2. ASX Announcement 'Study shows arg-007 does not degrade when co-administered with ischemic stroke therapeutics' 12 July 2021
- 3. Liddle, L. et al (2019). *PloS one*, *14*(11), e0224870.

ENCOURAGING RESULTS TO DATE

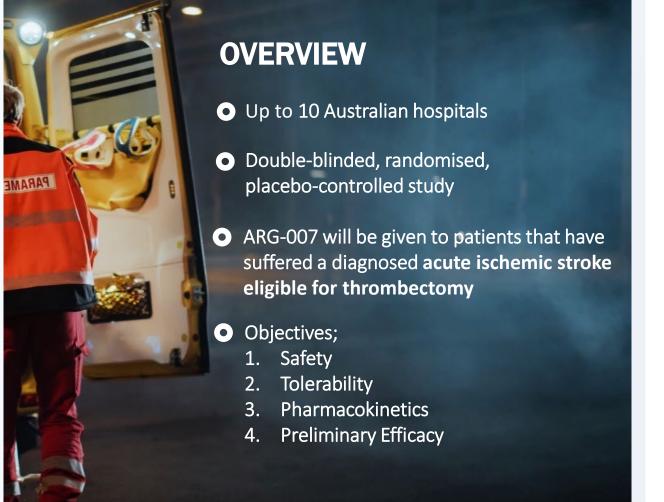


[1] Meloni, B. P. et al (2020) Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 17(2), 627–634 [2] Liddle, L. et al (2019). PloS one, 14(11), e0224870.

(3) ASX Announcement 'Study shows arg-007 does not degrade when co-administered with ischemic stroke therapeutics' 12 July 2021

These findings are preliminary in nature. A larger dataset will be required for clinical validation.

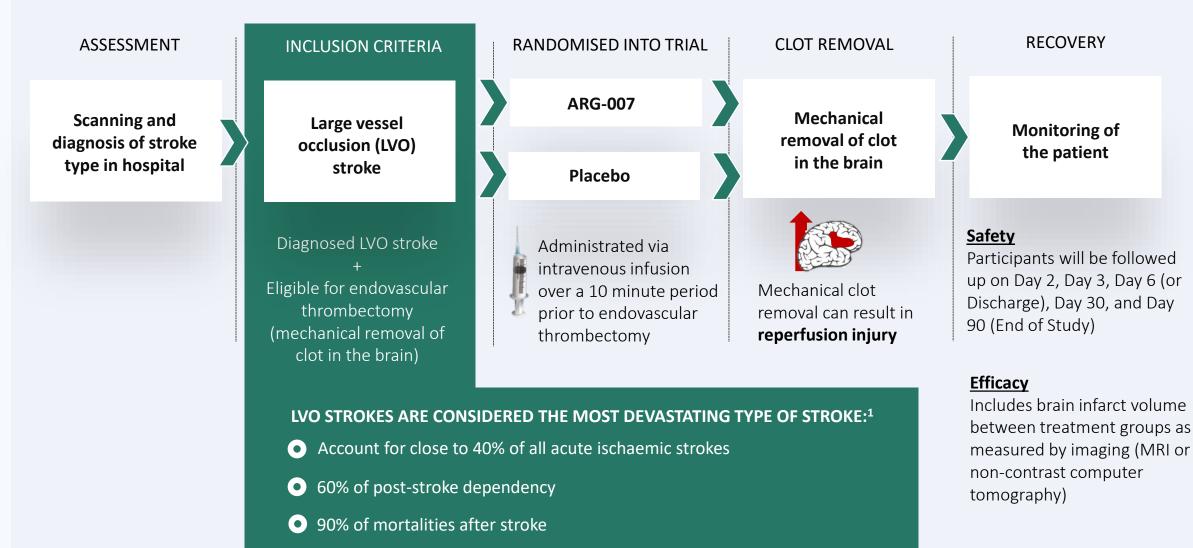
PHASE 2 CLINICAL TRIAL IN STROKE



NEAR TERM TIMELINE	Q3 CY23	Q4 CY23	Q1 CY24	Q2 CY24
Pre-IND FDA meeting				
Ethics approval	\checkmark			
Hospital site start-up		€		
Manufacturing finalised				
ARG-007 arrives				
First patient dosed			€	
First independent review of patient safety data				

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PHASE 2 PROTOCOL



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- 1 Malhotra K, Gornbein J, Saver JL. Ischemic Strokes Due to Large-Vessel Occlusions Contribute Disproportionately to Stroke-Related Dependence and Death: A Review. Front Neurol. 2017 Nov 30;8:651.
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POST PHASE 2 STRATEGY

ESTIMATED TIMELINE FOR COMPLETION OF PHASE 2

- Final trial data could potentially be anytime from **H2 CY25 to H1 CY26**
- Timing is highly dependent on recruitment progress
- Argenica aims to provide updates during the trial as recruitment progresses
- All trial sites are located at hospitals with experience in conducting stroke clinical trials



LICENSING OR PARTNERING:

If the Phase 2 trial shows promising results, Argenica may license ARG-007 for stroke to a larger pharmaceutical group that has the resources to carry out larger Phase 3 trials and commercialisation

MERGER & ACQUISITION:

Successful Phase 2 results could make Argenica an attractive target for acquisition by larger pharmaceutical companies looking to bolster their pipeline across all Argenica's indications



CO-DEVELOPMENT:

Co-development in a stroke Phase 3 clinical trial involves collaboration between drug companies to jointly develop and potentially market a drug, pooling resources, expertise, and risks

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PIPELINE OF ADDITIONAL INDICATIONS





• Estimated USD\$18.6bn market size by 2031¹

- ARG-007 has shown efficacy in pre-clinical studies²
- Awarded A\$1.2m grant to advance pre-clinical studies³
- 1. Traumatic brain injuries assessment market research, 2031 Allied Market Research
- 2. ASX Announcement titled 'ARG-007 protects brain cells in moderate traumatic brain injury model' 22 June 2023
- 3. ASX Announcement titled 'Argenica awarded \$1.2m grant for Traumatic brain injury project under the CRC-P program' dated 20 Jan 2023

- Alzheimer's therapeutics market USD\$13bn by 2031⁴
- Preclinical data shows ARG-007 inhibits amyloid beta aggregation, a key cause of Alzheimer's⁵
- Awarded A\$350,000 grant to advance pre-clinical studies⁶
- 4. Alzheimer's Therapeutics Market Global Opportunity Analysis 2021-2031 – Allied Market Research

5. Announcement titled 'Preclinical data shows arg-007 inhibits one of The main causes of alzheimer's disease' Dated 9 Feb 2023

6. ASX Announcement titled 'Non-dilutive funding received to progress Alzheimer's disease studies' dated 22 Feb 2023 HYPOXIC-ISCHAEMIC ENCEPHALOPATHY (HIE)

- HIE occurs in 1.5 to 2.5 births per 1000⁷
- Orphan drug designation / rare paediatric disease
- Awarded A\$2.5m grant to advance pre-clinical studies⁹

7. Hypoxic Ischemic Encephalopathy: Pathophysiology and Experimental Treatments Kimberly A. Allen, MSN, RN and Debra H. Brandon, PhD, RN, CCNS, FAAN

8. Pre-clinical studies have shown ARG-007 provides neuroprotection in a term animal model of Perinatal Hypoxic Ischemic Encephalopathy (HIE) – ASX Announcement 29th September 2022.

9. ASX Announcement titled 'Significant non-dilutive funding to Complete preclinical hypoxic ischaemic Encephalopathy studies' dated 30 March 2023

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DEVELOPING DIFFERENT ADMINISTRATION ROUTES

- Awarded \$419,000 in non-dilutive grant funding under the Western Australian government's Innovation Seed Fund Program
- The funding will be used to develop a nonintravenous administration route for ARG-007, aiming to better serve chronic conditions
- Multiple drug delivery methods would better enable Argenica to develop additional drug products relevant to patient needs

TABLETS, NASAL SPRAYS OR EPIPEN STYLE

Preferable for chronic conditions requiring ongoing neuroprotective treatment:





MILD TBI

INTRAVENOUS DELIVERY

Preferable for acute conditions which require rapid delivery to the blood stream:

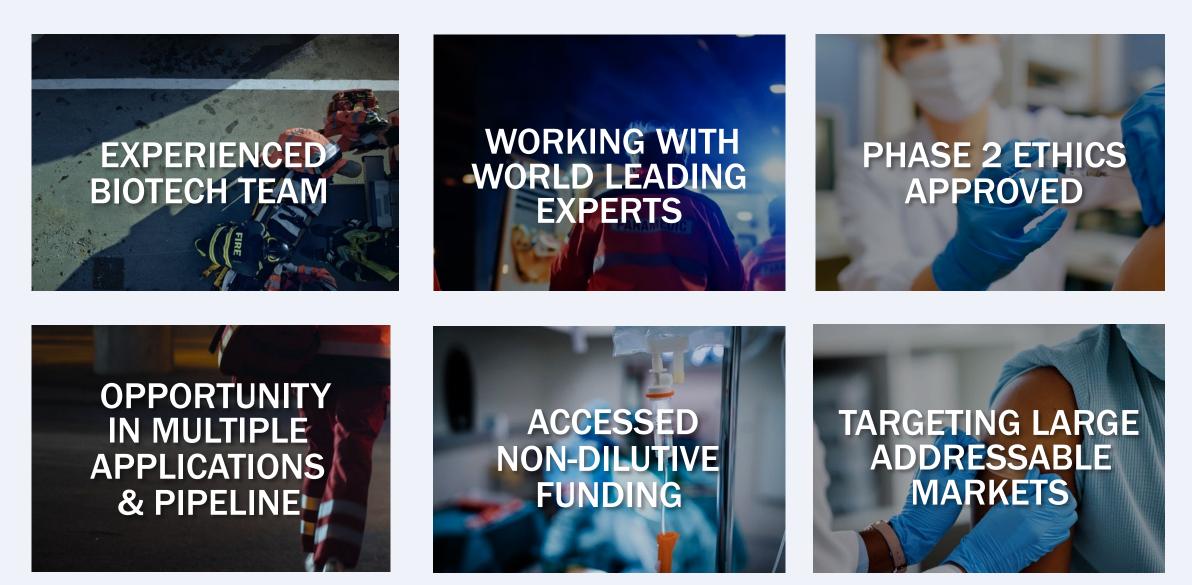




HIE

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INVESTMENT HIGHLIGHTS



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••• ARGENICA THERAPEUTICS

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