



INVESTOR PRESENTATION ASX: AGN

MANAGING DIRECTOR PRESENTATION
MAY 2025



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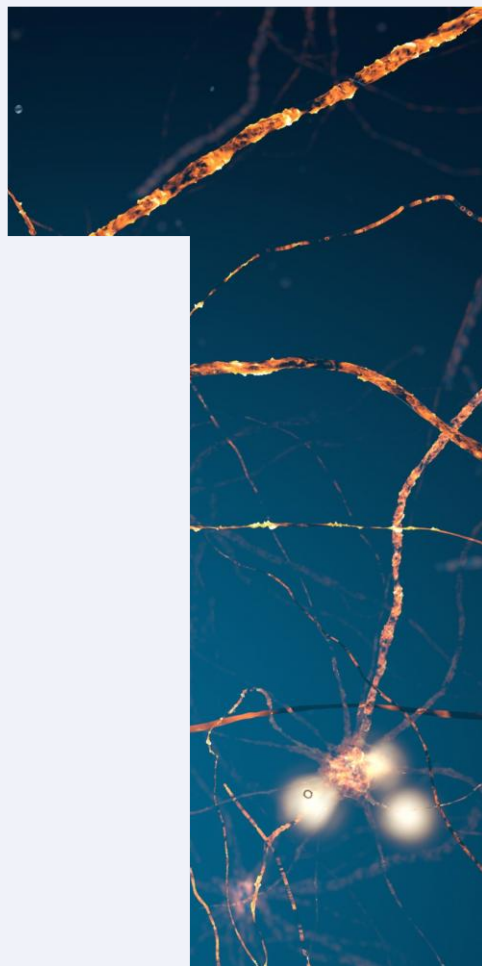
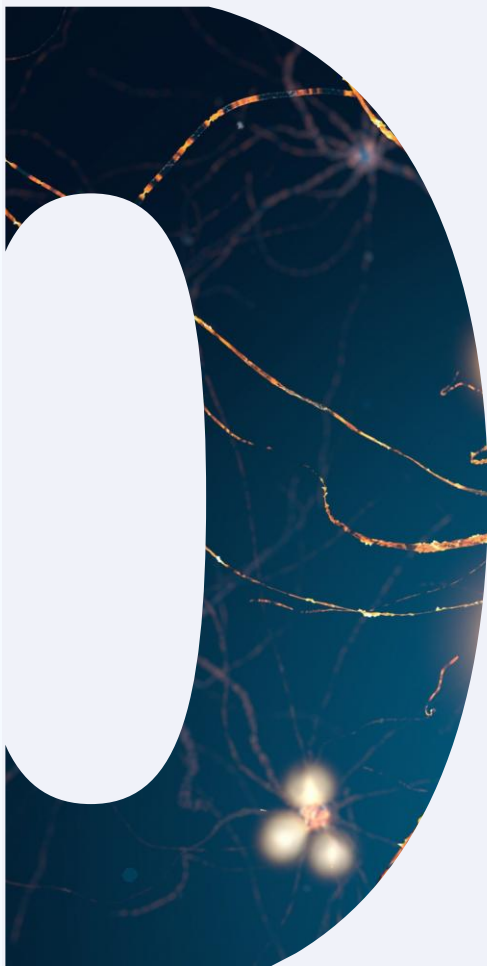
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NEUROPROTECTION **THE THERAPEUTIC** **OPPORTUNITY**



BREAKTHROUGH NEUROPROTECTIVE THERAPY



MISSION

Commercialise neuroprotective treatments that minimises brain damage and fosters recovery following stroke & other neurological conditions



VISION

Redefine the standard of care for stroke and other neurological conditions by reducing brain injury



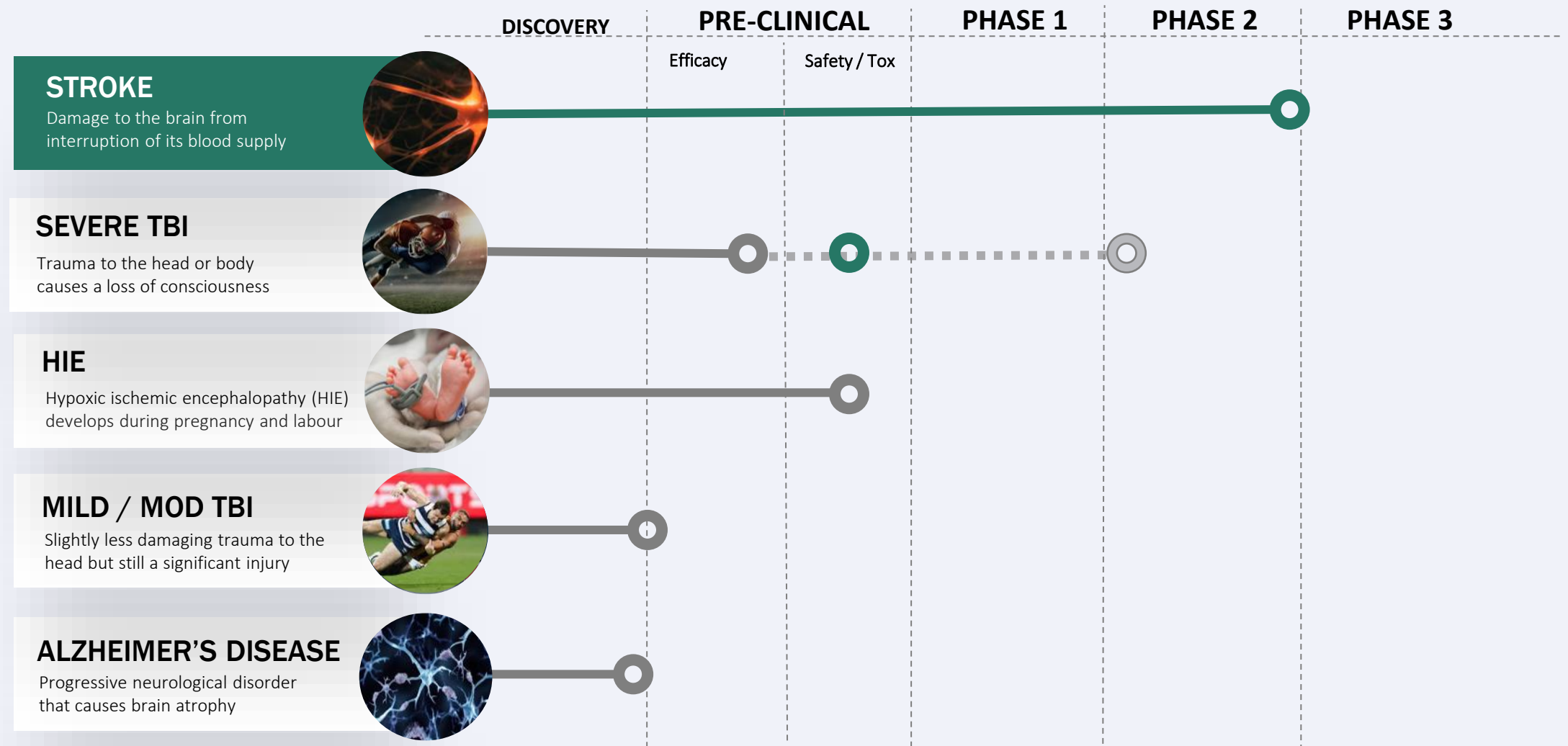
IMPACT

Create positive, life-altering impact for millions suffering from neurological conditions, offering new hope

ABOUT ARG-007

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

OUR LEAD DRUG CANDIDATE ARG-007





POTENTIAL OF ARG-007

MAIN INDICATIONS

STROKE



TBI



HIE



ALZHEIMER'S DISEASE



Ability to partner / licence
on all indications

ADDRESSABLE MARKET

USD\$12bn
by 2030¹

1. Coherent Market Insights Report – Acute Ischemic Stroke (AIS) Market Analysis, Oct 2023

USD\$18.6bn
by 2031²

2. Traumatic brain injuries assessment market research, 2031 – Allied Market Research

USD\$1.9bn
by 2030³

3. Data Bridge Market Research Market Analysis Study 2023

USD\$13.0bn
by 2031⁴

4. Alzheimer's Therapeutics Market Global Opportunity Analysis 2021-2031 – Allied Market Research

All indications have large
addressable markets

SUMMARY OF RESULTS TO DATE

66% reduction

in Brain Tissue Death 24 hours after stroke

70% reduction

in Brain Tissue Death 28 Days after stroke

Meloni, B. P. et al (2020) *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 17(2), 627–634

52% reduction

in neurofilament heavy protein

51% reduction

in amyloid precursor protein

ASX Announcement titled 'ARG-007 protects brain cells in moderate traumatic brain injury model' 22 June 2023

52% reduction

in total brain injury 4 weeks after injury

60% reduction

compared to hypothermia

ASX Announcement titled 'ARG-007 is an effective stand-alone therapy in preclinical study of term hypoxic ischaemic encephalopathy' dated 18 October 2023

65% reduction

in Abeta aggregation

84% reduction

in cellular uptake of a-syn

89% reduction

in Tau aggregation

ASX Announcements dated 9th February 2023, 1st August 2023 and 3 November 2023

Results to date are exceptional and will
drive commercial / partnering interest



KEY COMPANY METRICS

\$12.9M
CASH @ BANK¹

\$98M
MARKET CAP²

+\$4M
NON-DILUTIVE GRANTS³

128.1M
SHARES ON ISSUE

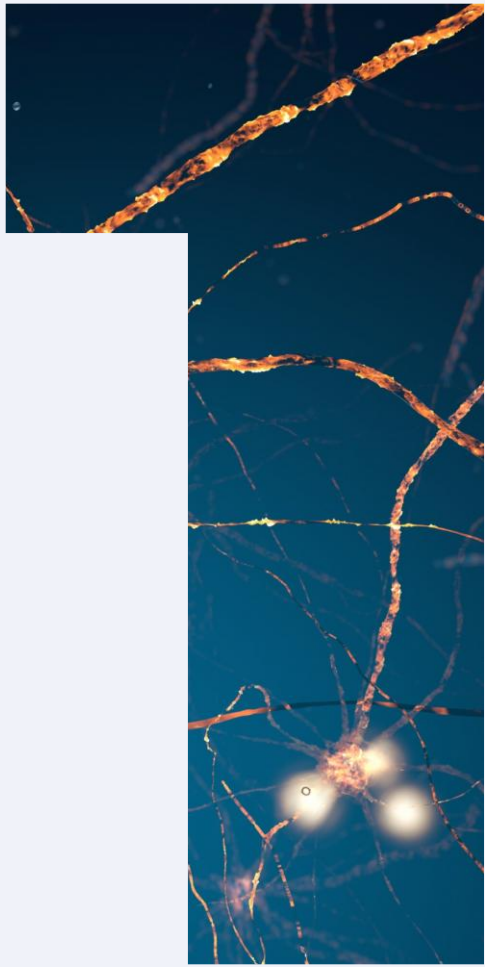
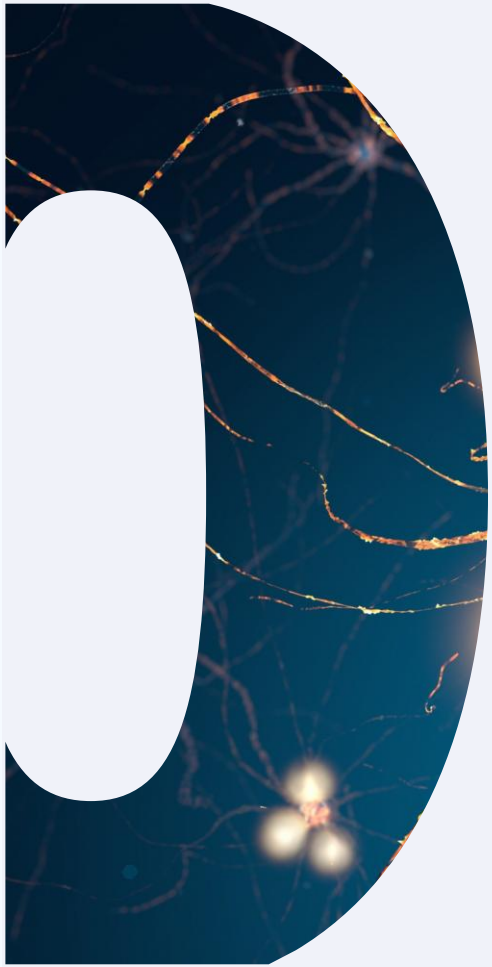
37%
SHARES HELD BY TOP 20

100%
PATIENTS ENROLLED IN PHASE 2

1. Cash balance as @ 31 March 2025

2. Calculated with closing price on @5th May 2025 being \$0.765

3. Various ASX Announcements dated 20 January 2023, 22 March 2023, 30 March 2023, 12 September 2023



ISCHAEMIC STROKE TRIAL UPDATE

SO WHY ARE WE TARGETING STROKE FIRST?

INCIDENCE



45 SECONDS

How often someone suffers an ischaemic stroke in the US¹

SOCIETAL IMPLICATIONS



ONLY 10%

will recover almost completely, due to the extent of brain cell damage²

THE IMPORTANCE OF TIME



1.9 MILLION

brain cells are attacked each minute during a stroke³

FIRST IN CLASS DRUG ADDRESSING LARGE UNMET NEED

1. US Centers for Disease Control and Prevention (CDC)
2. Stoke Foundation
3. Saver, JL (2006). "Time is Brain". *Stroke*, 37 (1), pp 236-266



The Stroke Opportunity

Category	Australia	United States
Number of strokes per year	~45,000 annually ¹	~795,000 annually ²
Cost of stroke to healthcare system <u>per year</u>	AUD\$5.5 billion in healthcare costs in 2023 ¹	USD\$71.55 billion in 2012 expected to increase to USD\$184.13 billion by 2030³
Estimated costs associated with stroke <u>per year</u>	AUD\$9+ billion annually (including healthcare and indirect costs) ¹	USD\$67 billion in 2020 expected to increase to USD\$423 billion by 2050⁴

THOMBOLYTIC DRUG AS A COMPARABLE MARKET

ONLY 9% OF ACUTE ISCHAEMIC STROKE PATIENTS ARE ELIGIBLE FOR THOMBOLYTICS⁵

THROMBOLYTIC DRUGS CAN SELL FOR = USD\$10k – 12k PER ADMINISTRATION⁶

GLOBAL MARKET IN 2022 = USD 1.1B⁷

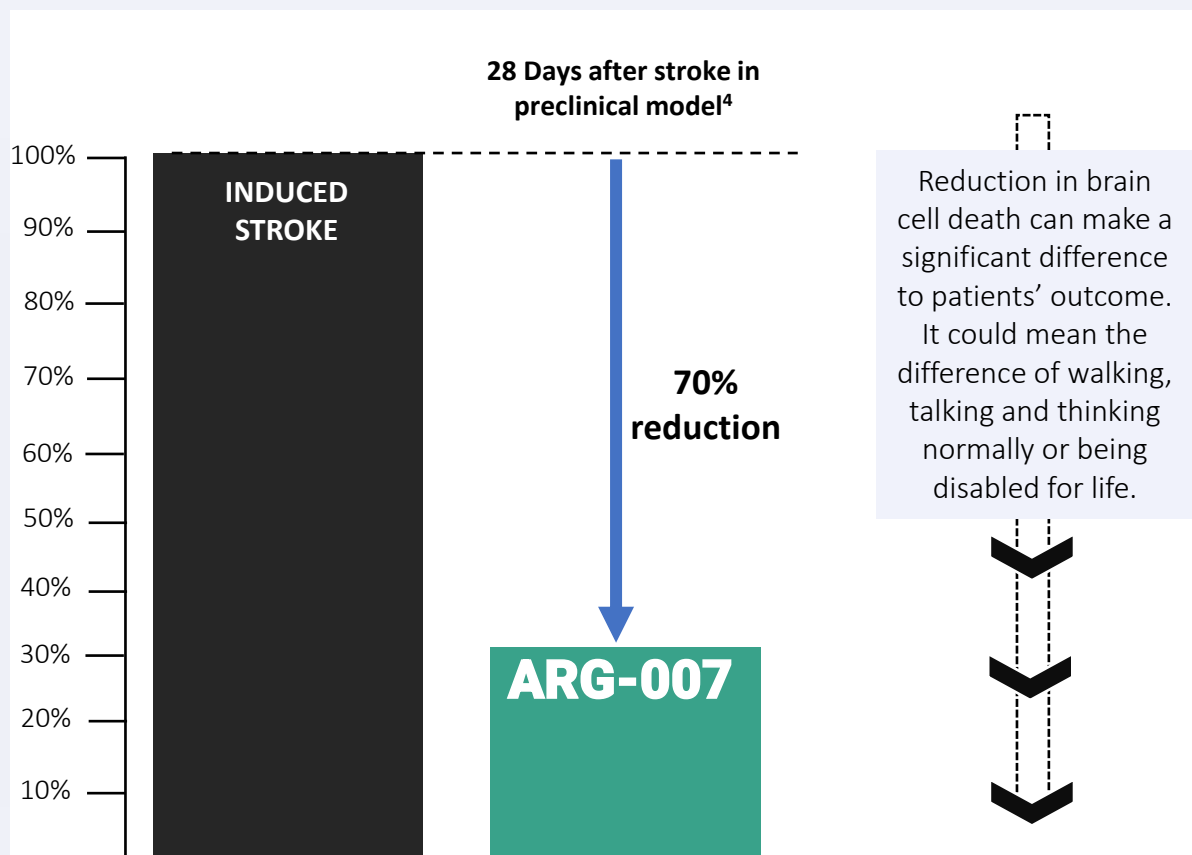
PROJECTED MARKET IN 2030 = USD 3.8B⁷

IF AGN IS SUCCESSFUL = MULTI BILLION DOLLAR OPPORTUNITY

1. <https://strokefoundation.org.au/media-centre/media-releases/2024/09/new-report-highlights-number-of-strokes-hits-all-time-high>
2. US Centers for Disease Control and Prevention (CDC)
3. <https://www.ahajournals.org/doi/10.1161/str.0b013e31829734f2>
4. <https://www.precedenceresearch.com/stroke-diagnostic-and-therapeutic-market>

5. Gaukel et al. Utilization rates of intravenous thrombolysis for acute ischemic stroke in Asian countries:: A systematic review and meta-analysis. *Medicine (Baltimore)*. 2023 Oct 20;102(42)
6. Kleindorfer D et al. Cost of Alteplase Has More Than Doubled Over the Past Decade. *Stroke*. 2017 Jul;48(7):2000-2002.
7. <https://www.verifiedmarketresearch.com/product/thrombolytic-drug-market/>

ENCOURAGING STROKE RESULTS TO DATE



This protective effect remained significant (70%), showing a significant reduction in brain tissue death for at least 28 days post stroke following a single i.v. injection of ARG-007

PRECLINICAL & CLINICAL DATA

SAFE TO ADMINISTER IN THE FIELD¹

CAN BE ADMINISTERED WITH CLOT DISSOLVING DRUG²

DOSES OF ARG-007 SAFE & WELL TOLERATED IN HEALTHY HUMAN PHASE 1³

PHASE 2 IN ISCHAEMIC STROKE PATIENT

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

1. Liddle, L. et al (2019). *PLoS one*, 14(11), e0224870.

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

3. ASX Announcement 'Final Phase 1 Clinical Trial Report Confirms Argenica Successfully Passes Critical Milestone' 15 May 2023

4. Meloni, B. P. et al (2020) *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 17(2), 627–634

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PHASE 2 TRIAL DESIGN IN ACUTE ISCHAEMIC STROKE

PATIENT HAS A
STROKE



PATIENT IN
AMBULANCE



ARRIVES AT
HOSPITAL



DIAGNOSE
STROKE TYPE



THROMBECTOMY



REHAB
BEGINS



- Initial screening of patients to meet inclusion criteria
- Consent for thrombectomy & ARG-007 trial

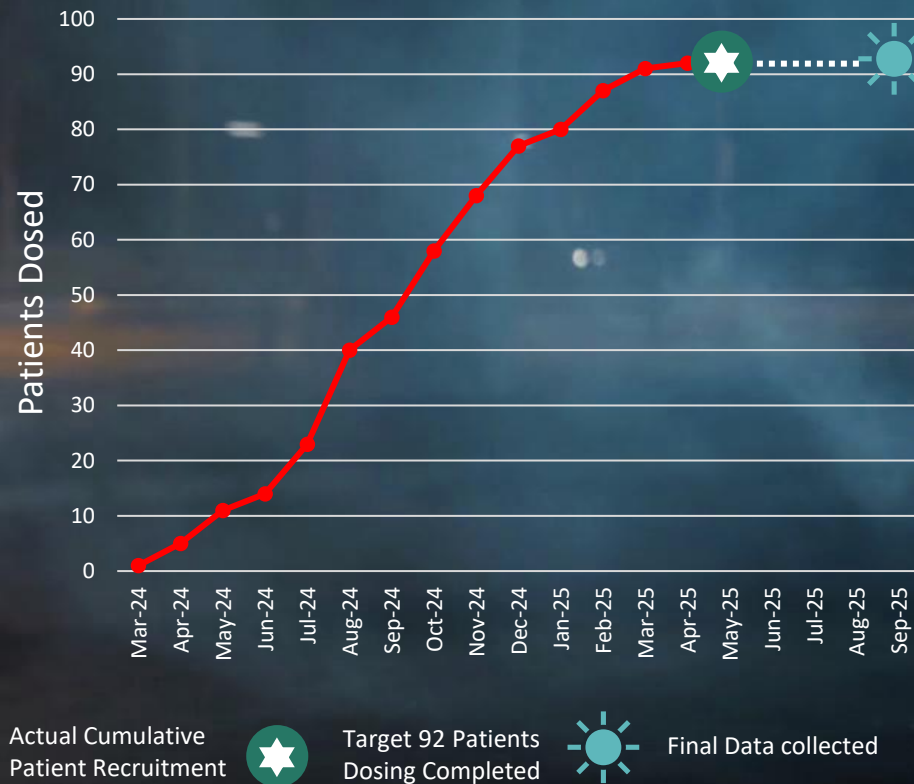
- Administration of **0.3mg/kg ARG-007** or saline placebo
- All patients receive thrombectomy

Endpoints

- Mortality rate and frequency of **Adverse and Serious Adverse Events**; timepoints of Day 1, Day 2, Day 3, Day 6 or Discharge, Day 30 and Day 90
- Infarct volume reduction** between ARG-007 and placebo at 48 hours (Day 3 \pm 1 day)

PHASE 2 CLINICAL TRIAL IN STROKE

ACTUAL PATIENT RECRUITMENT

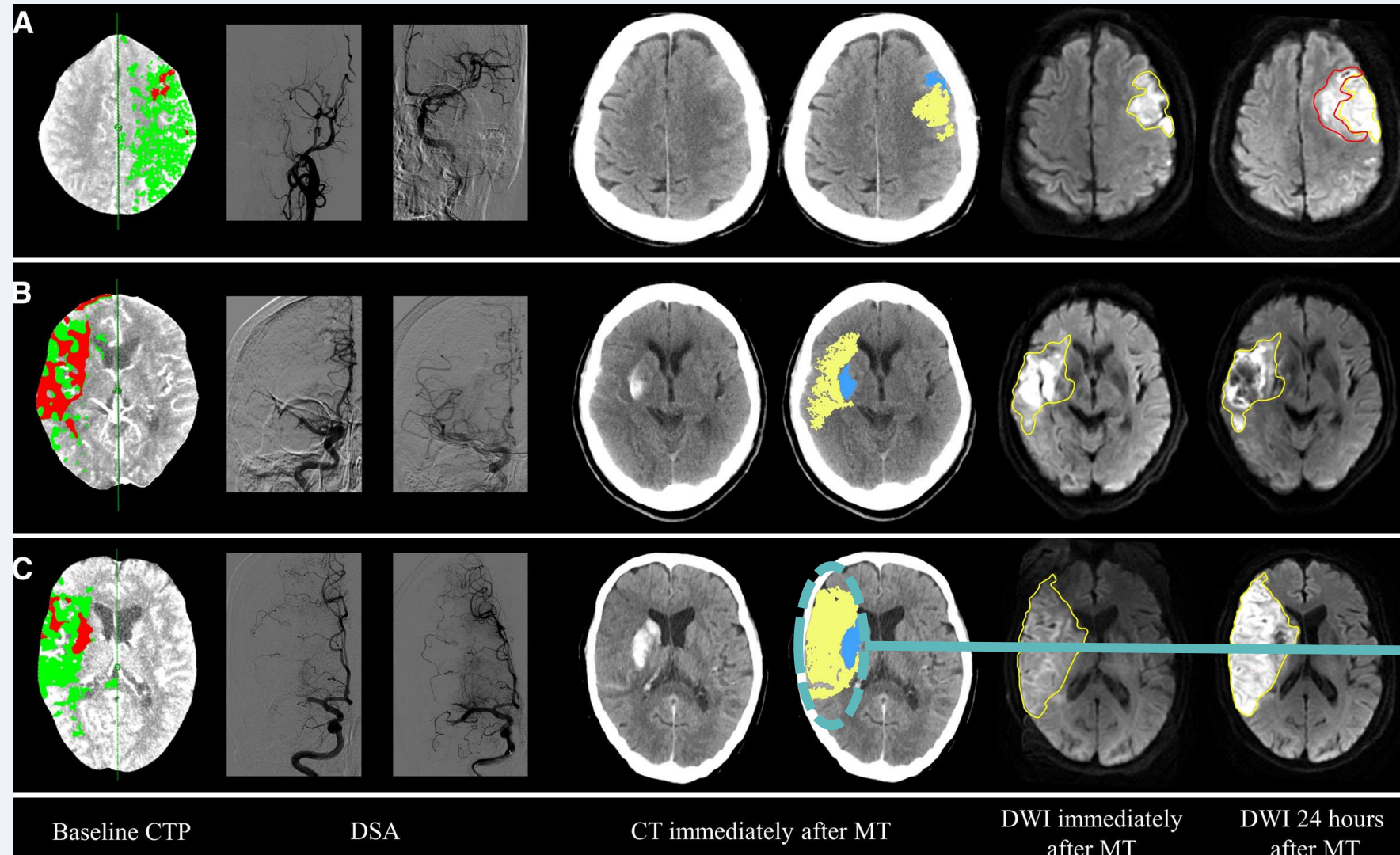


- PATIENT DOSING COMPLETED AT 8 AUSTRALIAN HOSPITALS
- Double-blinded, randomised, placebo-controlled study with 0.3mg/kg dose of ARG-007.
- ARG-007 given to patients that have suffered a diagnosed acute ischemic stroke eligible for thrombectomy.
- Objectives;
 1. Safety
 2. Tolerability
 3. Pharmacokinetics
 4. Preliminary Efficacy
- TOPLINE DATA DUE Q3 CALENDAR YEAR 2025.



EXAMPLE OF WHAT PHASE 2 TRIAL HOPES TO ACHIEVE:

REDUCING INFARCT VOLUME (i.e. BRAIN DEATH) FOLLOWING STROKE & THROMBECTOMY

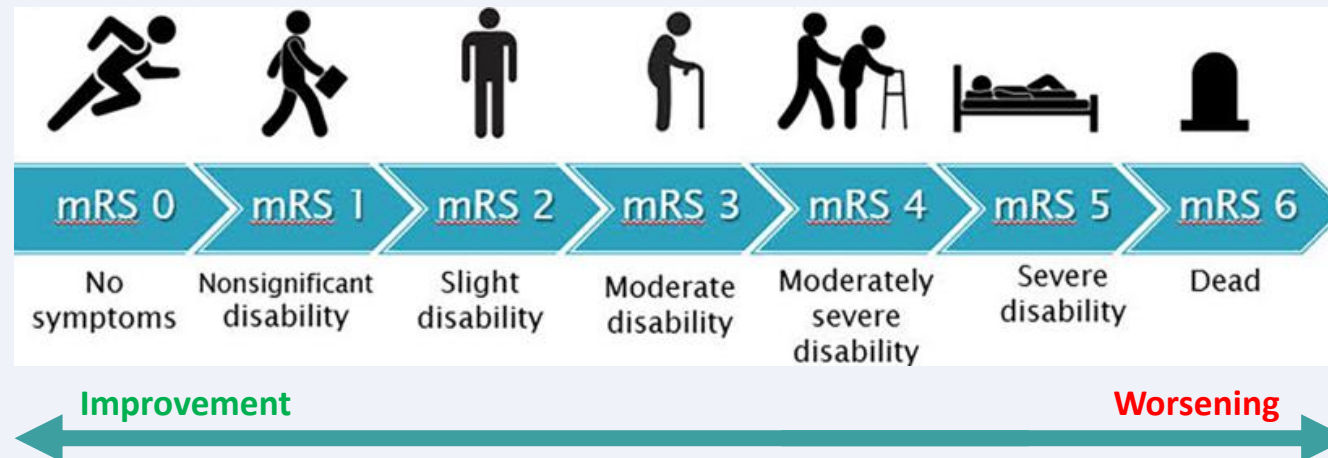




WHAT DOES A REDUCTION IN INFARCT MEAN FOR PATIENTS?

Reducing infarct volume after an ischemic stroke is a crucial measure because data suggests it is the **strongest predictor of better outcomes**, including improved neurological function, independence, and lower mortality.¹

mRS Scale (i.e. a measure of a patient's disability)



Ultimately, ARG-007 needs to move more people to the left on the mRS (into 0-2). If the Phase 2 trial shows a reduction in infarct volume, there will be a greater chance of seeing improved mRS in a larger pivotal trial (i.e. Phase III)

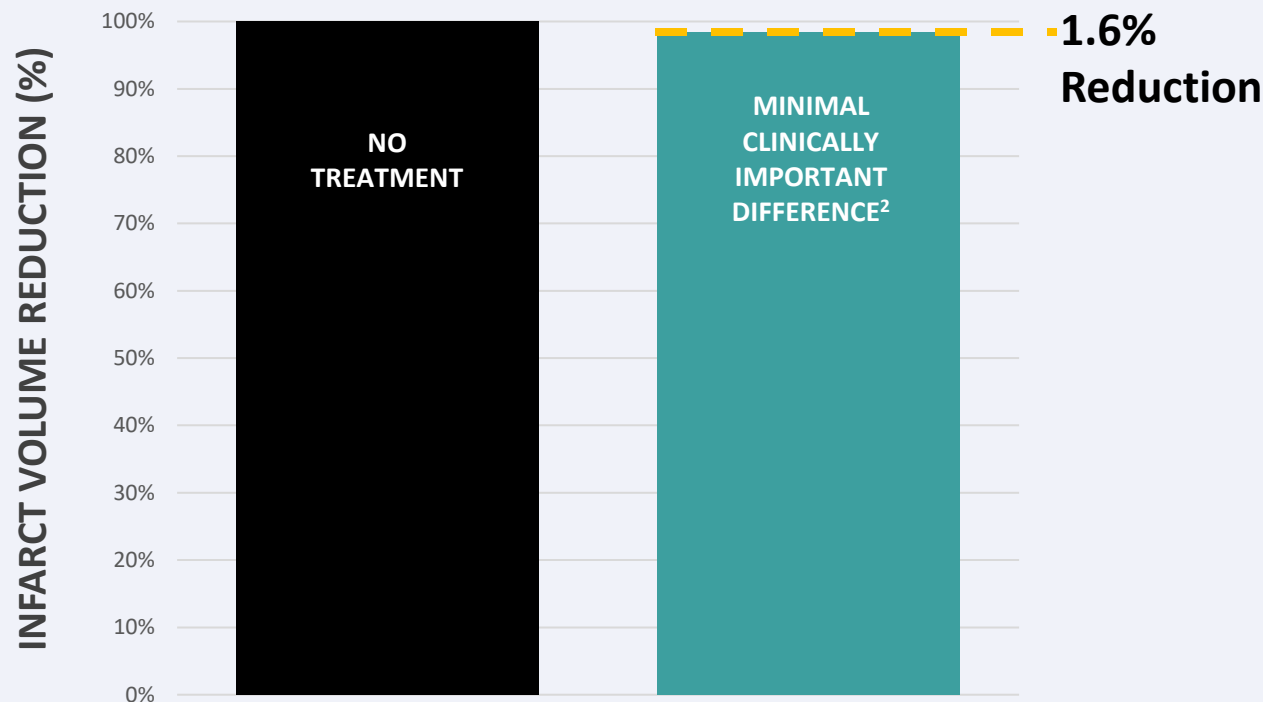
Greater independence = greater savings to healthcare system

1. Abraham S, et al. Automatically quantified follow-up imaging biomarkers predict clinical outcomes after acute ischemic stroke. *Front Neurol*. 2025 Mar 19;16:1483138



HOW MUCH BRAIN DO YOU NEED TO SAVE?

CLINICALLY MEANINGFUL FINAL INFARCT VOLUME REDUCTIONS



- A 1.6% decrease in infarct volume (decrease in brain cell death) is **the minimum amount** of decrease deemed to be clinically important¹. This decrease, on average, results in **1.3 more patients achieving** out of 100 achieving functional independence (mRS 0-2).
- Studies have shown a decrease of **5%, 11.5% and 17%** would results in **5, 10 and 15** more patients out of **100**, respectively, achieving functional independence (mRS of 0-2). This means 5, 10 and 15 more patients per 100 who would move from being severely or moderately disabled to having no or only a slight disability¹.
- **There are currently no approved drugs to reduce brain death following stroke, therefore any statistically significant reduction in infarct volume beyond 1.6% would be seen as a positive outcome.**

EVEN A SMALL REDUCTION IN INFARCT VOLUME INCREASES THE CHANCE A PATIENT WILL WALK, TALK & CARE FOR THEMSELVES

1. Liao NC, Bahr Hosseini M, Saver JL. Clinically important effect sizes for clinical trials using infarct growth reduction as the primary outcome: a systematic review. J Neurointerv Surg. 2023 Oct 31 – average final infarct volume across all studies is 38.4mL.
2. From Liao et al 2023 - Minimal clinically important difference-outcome specific is defined as the smallest change in a treatment outcome measure that a patient would consider of value, if the treatment producing the outcome was simply implemented, safe and inexpensive.

INVESTIGATIONAL NEW DRUG & FAST TRACK APPLICATIONS SUBMITTED TO FDA

The IND application for ARG-007 in AIS has now been submitted with the FDA. Regulatory advice has indicated there are advantages to including a Fast Track Application with the IND application, therefore a Fast Track Application was submitted alongside the IND.

Fast Track is a process designed to facilitate the development and expedite the review of drugs to treat serious conditions and fill an unmet medical need. The purpose is to get important new drugs to the patient earlier. Fast track designation provides:

- More frequent meetings with FDA to discuss the drug's development plan and ensure collection of appropriate data needed to support drug approval
- More frequent written communication from FDA about such things as the design of the proposed clinical trials and use of biomarkers
- Eligibility for *Accelerated Approval and Priority Review, if relevant criteria are met*
- Rolling Review*, which means that a drug company can submit completed sections of its Biologic License Application (BLA) or New Drug Application (NDA) for review by FDA, rather than waiting until every section of the NDA is completed before the entire application can be reviewed.





THE OPPORTUNITY FOR ARG-007 IN OTHER INDICATIONS

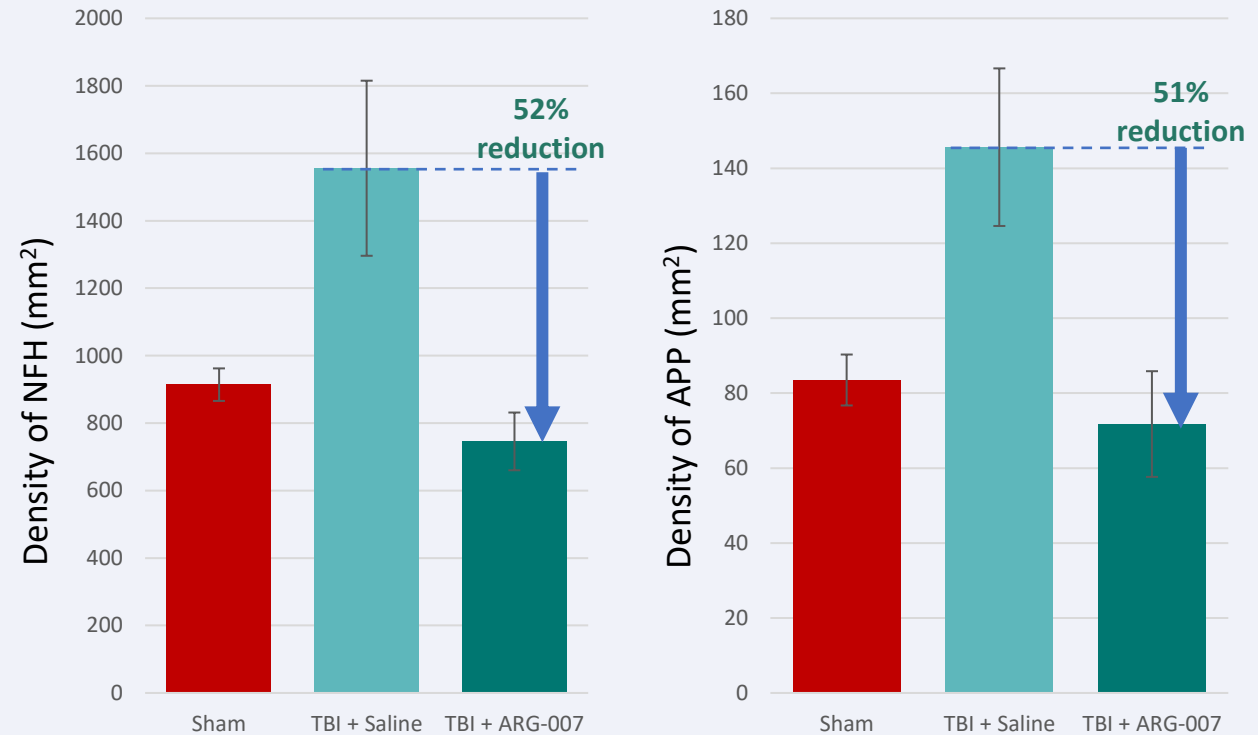


ARG-007 POTENTIAL IN TBI – RAT DATA



- 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

ARG-007 SIGNIFICANTLY REDUCES NFH PROTEIN AND APP FOLLOWING TBI²



ARG-007 was found to protect brain cells in the injured brain by significantly reducing the accumulation of proteins that contribute to brain cell injury and death following TBI, specifically neurofilament heavy protein (NFH) and amyloid precursor protein (APP).

1. Traumatic brain injuries assessment market research, 2031 – Allied Market Research

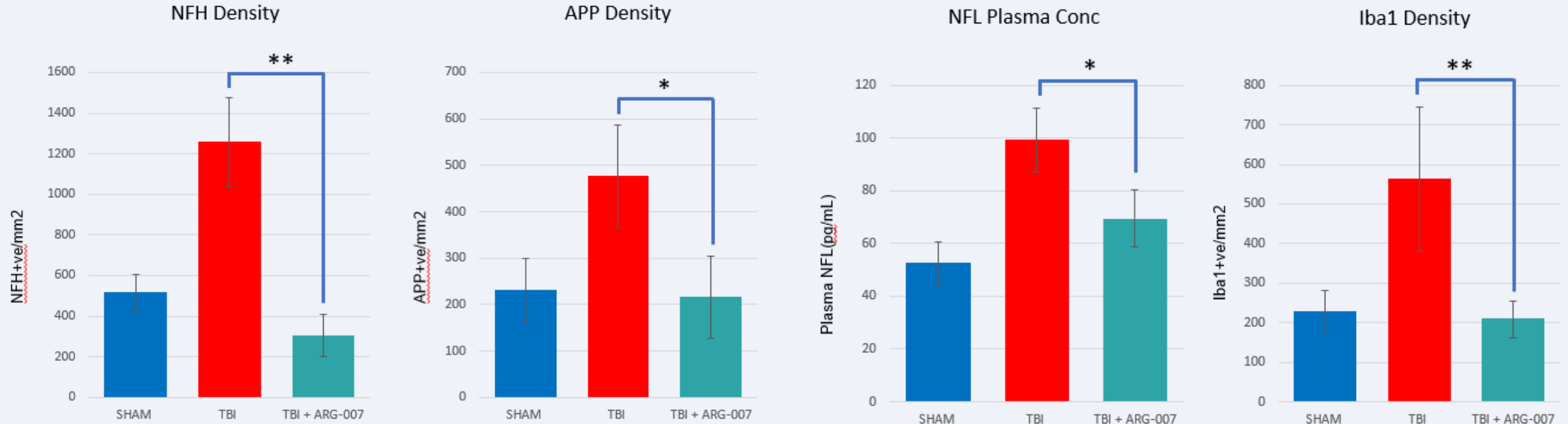
2. ASX Announcement titled 'ARG-007 protects brain cells in moderate traumatic brain injury model' 22 June 2023

3. ASX Announcement titled 'Argenica awarded \$1.2m grant for Traumatic brain injury project under the CRC-P program' dated 20 Jan 2023



CONFIRMED IN LARGER RAT STUDY

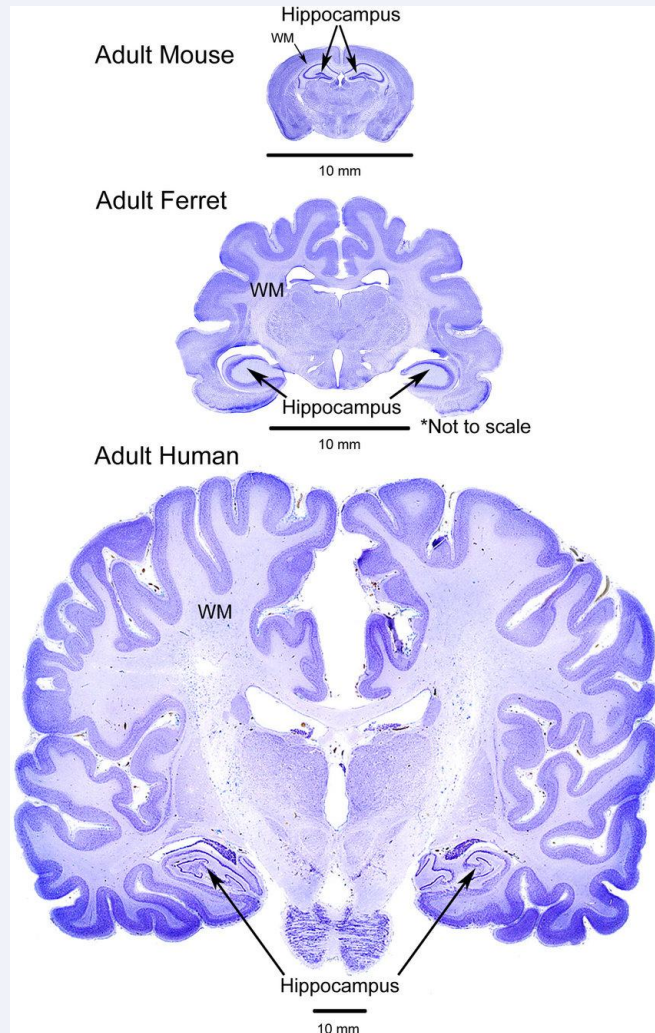
ARG-007 SIGNIFICANTLY REDUCES KEY TBI BIOMARKERS¹



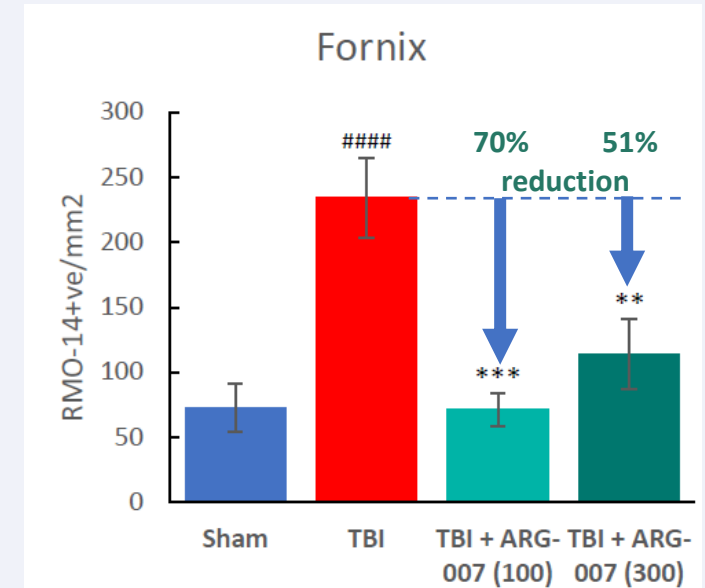
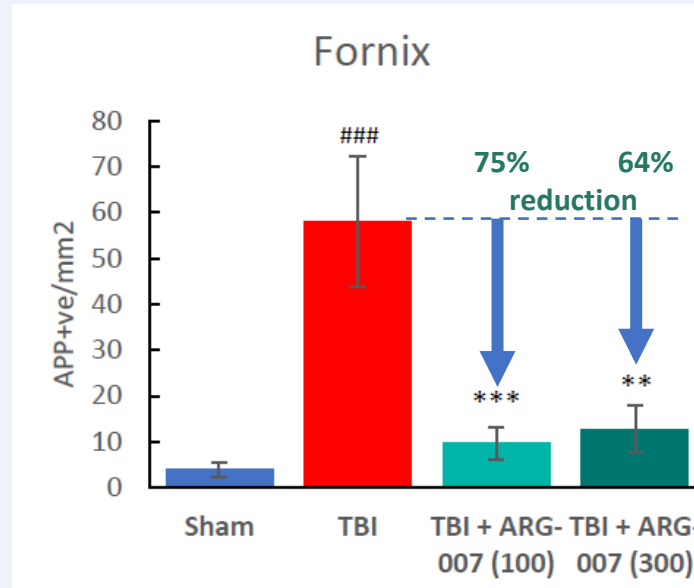
ARG-007 was found to protect brain cells in the injured brain by significantly reducing the accumulation of proteins that contribute to brain cell injury and death following TBI, specifically neurofilament heavy protein (NFH), amyloid precursor protein (APP), neurofilament light (NFL) and inflammatory marker Iba1.

1. ASX Announcement titled 'ARG-007 shows significant neuroprotection in main traumatic brain injury study' 4 February 2025

ARG-007 POTENTIAL IN TBI – FERRET DATA



ARG-007 SIGNIFICANTLY REDUCES AMYLOID PRECURSOR PROTEIN (APP) AND NEUROFILAMENT M-14.9 (RMO-14) & FOLLOWING TBI¹



ARG-007 was found to protect brain cells in the injured brain by significantly reducing the accumulation of proteins associated with injury in brain cell following TBI, specifically APP and RMO-14. #### TBI injury is significantly difference from sham, confirming injury impairment. *** $p < 0.001$, ** $p < 0.01$ * $p < 0.05$ statistically significant difference of TBI:Vehicle to TBI:ARG007 treated animals to confirm therapeutic response of ARG-007.

Image reference – Schwerin et al 2017, Establishing the ferret as a gyrencephalic animal model of traumatic brain injury: Optimization of controlled cortical impact procedures, Journal of Neuroscience Methods

1. ASX Announcement dated 15 May 2024, ARG-007 Significantly Reduces Effects of Traumatic Brain Injury in Preclinical Study

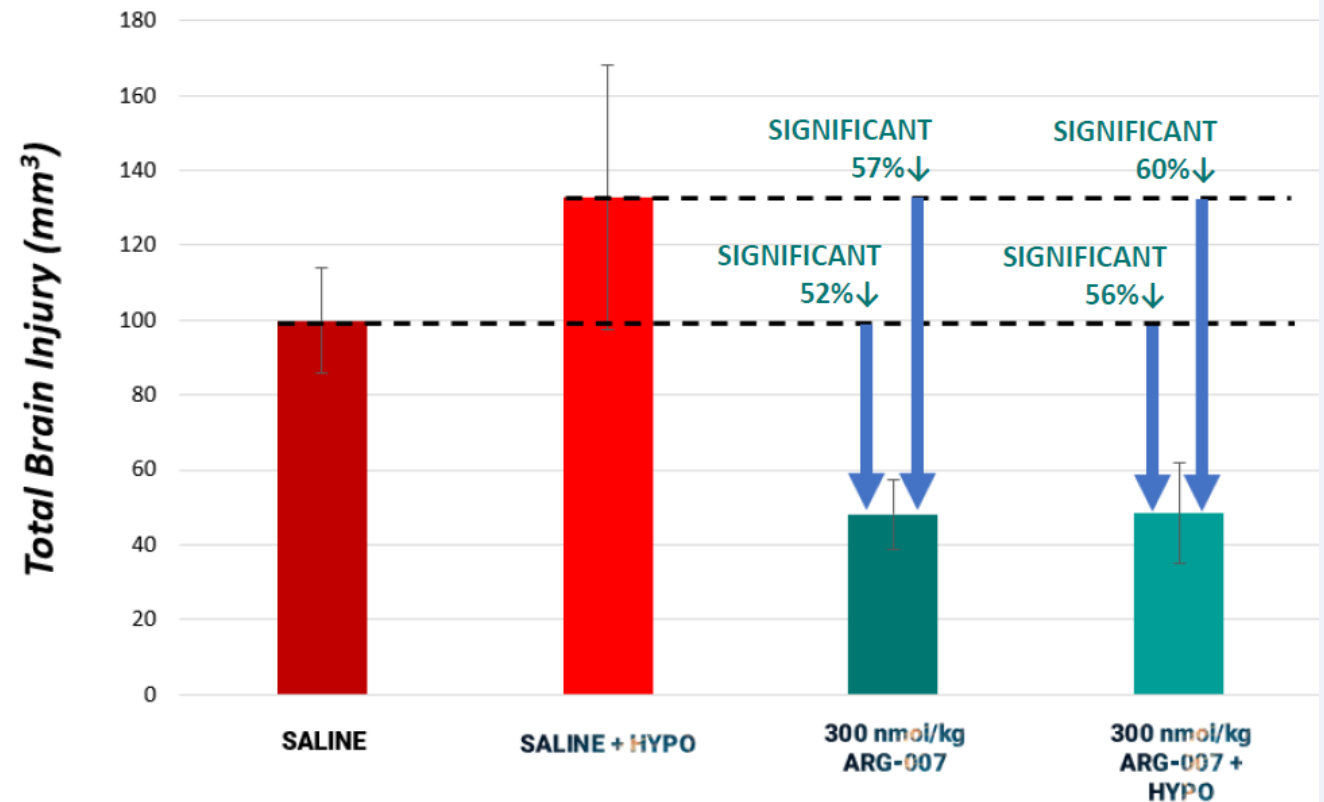
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ARG-007 POTENTIAL IN HIE

HYPOXIC-ISCHAEMIC ENCEPHALOPATHY (HIE)

- HIE occurs in 1.5 to 2.5 births per 1000¹
- Current standard of care is hypothermia
- Awarded **A\$2.5m** grant to advance pre-clinical studies²

TOTAL BRAIN INJURY AT 4 WEEK POST HIE WITH ARG-007 TREATMENT OR ARG-007 WITH STANDARD OF CARE HYPOTHERMIA³



1. Hypoxic Ischemic Encephalopathy: Pathophysiology and Experimental Treatments Kimberly A. Allen, MSN, RN and Debra H. Brandon, PhD, RN, CCNS, FAAN
2. ASX Announcement titled 'Significant non-dilutive funding to Complete preclinical hypoxic ischaemic Encephalopathy studies' dated 30 March 2023
3. ASX Announcement titled 'ARG-007 is an effective stand-alone therapy in preclinical study of term hypoxic ischaemic encephalopathy' dated 18 October 2023



NEAR-TERM CATALYSTS



Q2 CY25

- Investigational New Drug Application and Fast Track Application to be submitted to the FDA
- Phase 2 Dosing completed
- TBI Preclinical Data
- Open IND



Q3 CY25

- Release of Phase 2 topline data
- Fast Track Designation



Q4 CY25

- HIE preclinical data



INVESTMENT HIGHLIGHTS

1# SOLVING LARGE UNMET NEEDS

Nervous system disorders are the biggest cause of poor health globally¹. Currently there are no marketed safe, early intervention therapeutics capable of protecting the brain from damage following stroke². Argenica is one of the furthest progressed clinical drug development companies globally focused on this indication.

2# SIGNIFICANT PRE-CLINICAL DATA

ARG-007 (R18D) has amassed a huge amount of preclinical data scientifically validating the efficacy, safety and mechanism of action of the drug. There are over 25 peer reviewed publication, as well as the Phase 1 clinical trial data, derisking ARG-007.

3# NEAR-TERM CATALYSTS

Several clinical and preclinical data points will be generated over the next 12 months, providing significant upside to investors.

4# PARTNERING OPPORTUNITIES

Given the focus on neurology assets and blockbuster indications by pharmaceutical companies, Argenica is well positioned to partner post Phase 2.

1 - Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. The Lancet Neurology, published online March 2024. [https://doi.org/10.1016/S1474-4422\(24\)00038-3](https://doi.org/10.1016/S1474-4422(24)00038-3)
2 - Stroke Foundation; accessed 3 May 2021, <<https://strokefoundation.org.au/en/About-Stroke/Learn/Treatment-for-stroke/Early-treatment-after-a-stroke>>



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