

ARGENICA TO PRESENT ARG-007 DATA AT STROKE 2023 SCIENTIFIC CONFERENCE

Perth, Australia; 24 AUGUST 2023 - Argenica Therapeutics Limited (ASX: AGN) ("Argenica" or the "Company"), a biotechnology company developing novel therapeutics to reduce brain tissue death after stroke and other brain injury, is pleased to announce Dr David Blacker, Head of Argenica's Clinical Advisory Committee, is presenting a talk today at the Joint Annual Scientific Meeting of the Stroke Society of Australasia (SSA) and Smart Strokes (Stroke 2023) in Melbourne, Victoria.

The talk is titled A Phase 1, double-blind, randomised, placebo-controlled, sequential-group study to assess the safety, tolerability and pharmacokinetics of single ascending doses of ARG-007 in healthy participants to be presented in Session 7.3 - Novel Approaches to Acute Stroke Care.

The slides are attached to this announcement.

Argenica's Managing Director, **Dr Liz Dallimore said**: "We are delighted that Dr Blacker has been invited to present our data on the safety of ARG-007 in healthy volunteers at the Stroke 2023 Conference. The conference will also provide the Company with the opportunity to engage with clinicians on our upcoming Phase 2 clinical trial in acute ischaemic stroke."

This announcement has been approved for release by the Board of Argenica.

For more information please contact: info@argenica.com.au

ABOUT ARGENICA

Argenica (ASX: AGN) is developing novel therapeutics to reduce brain tissue death after stroke and other types of brain injury and neurodegenerative diseases to improve patient outcomes. Our lead neuroprotective peptide candidate, ARG-007, has been successfully demonstrated to improve outcomes in pre-clinical stroke models, traumatic brain injury (TBI) and hypoxic ischaemic encephalopathy (HIE). The Company has recently completed a Phase 1 clinical trial in healthy human volunteers to assess the safety and tolerability of a single dose of ARG-007. Argenica is now progressing towards a Phase 2 clinical trial in ischaemic stroke patients, as well as continuing to generate preclinical data in other neurological conditions, including in TBI, HIE and Alzheimer's Disease.







linear



<u>David Blacker</u> A.M., Andrew Redfern, Meghan Thomas, Samantha South, Neville Knuckey, Bruno Meloni

SSA Meeting, AUGUST 2023

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Author disclosures

David Blacker, Bruno Meloni, Neville Knuckey: named inventors on patent, hold founder equity shares and other share types within Argenica Therapeutics.

Samantha South: Founding Director of Argenica and holds founder equity shares.

Meghan Thomas: Employed by Argenica and has share options.

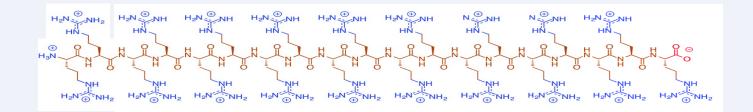
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ARG-007: POLY ARGININE 18 (R18D)

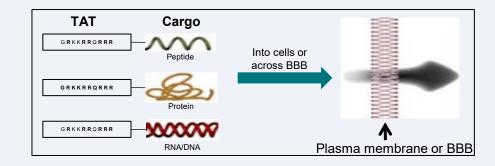
- Our lead peptide is ARG-007
 - 18 Arginine

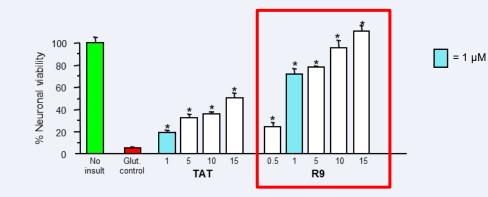
• Net charge = +18



CATIONIC ARGININE RICH PEPTIDES (CARPs)

- CARPs are commonly used as cell penetrating peptides
 - > Can enter cells and cross the blood-brain-barrier
 - Used as carrier molecules to deliver agents into the Central Nervous System.
 - > One of the most commonly used CARPs is the <u>TAT peptide</u>:
 - GRKKRRQRRR (R = arginine; charge = +8;)
 - TAT peptide displayed modest neuroprotection in neuronal glutamate excitotoxicity model
 - Nine Arginine (<u>R9</u>; charge = +9) was more neuroprotective¹





 $I = 0.5 \ \mu M$

R15

R18



R12

¹Meloni et al., 2014. Cell Mol Neurobiol. 34:173-181. ²Meloni et al., 2015. J Cere Blood Flow & Met. 35:993-1004

R9

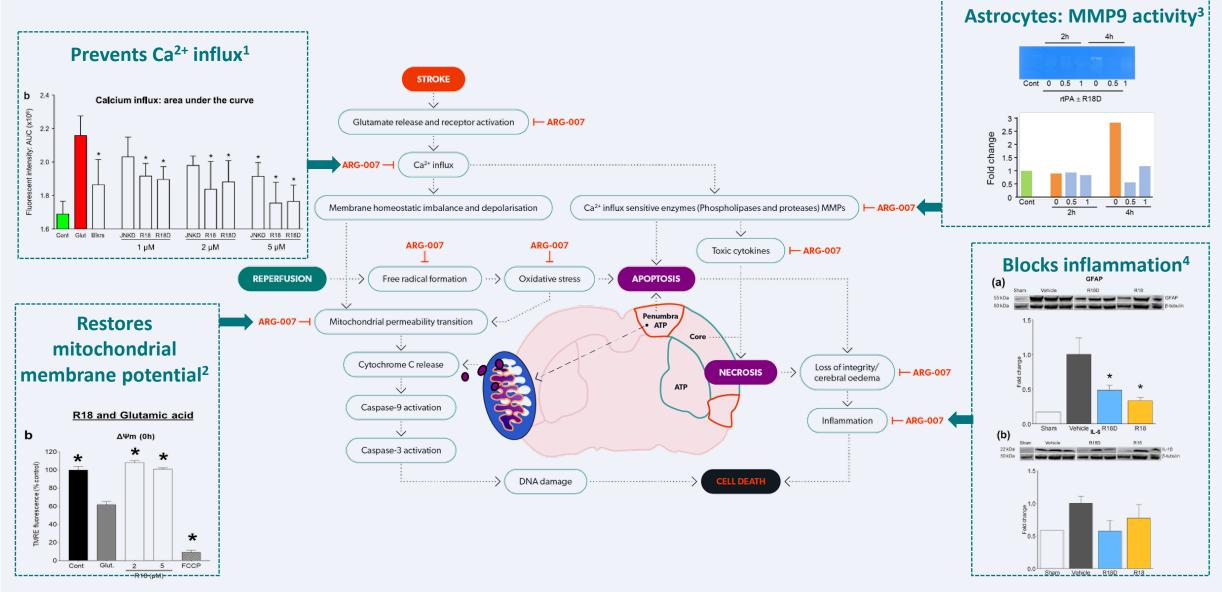
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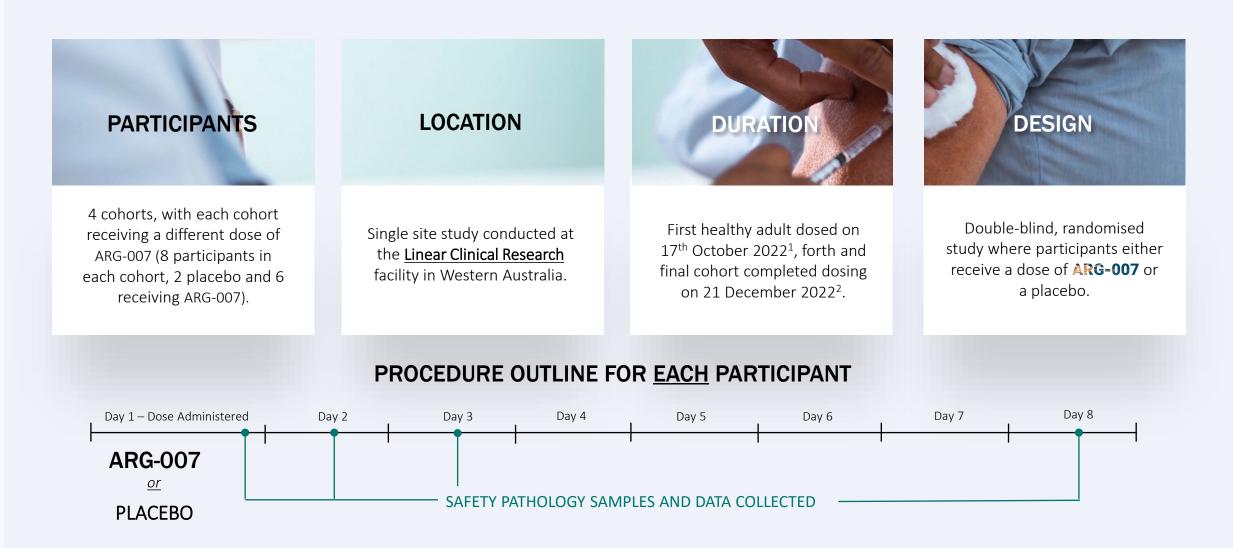
MULTIMODAL MECHANISM OF ACTION



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PHASE 1 CLINICAL TRIAL



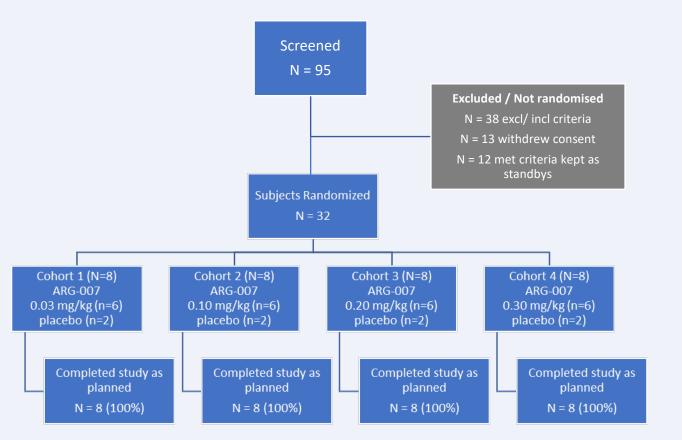
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SUBJECT OVERVIEW & EXPOSURE

- 95 subjects screened
- 32 randomized:
 - Mean age = 36.2 (range 18 62 years)
 - 53.1% female
- Single 10 minute IV
- ARG-007 mean exposure:
 - Cohort 1 (0.03 mg/kg) = 2.21 mg
 - Cohort 2 (0.10 mg/kg) = 7.89 mg
 - Cohort 3 (0.20 mg/kg) = 14.77 mg
 - Cohort 4 (0.30 mg/kg) = 21.72 mg



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Safety and tolerability of single escalating doses of ARG-007

Safety was evaluated from the analysis of:

- 1) Incidence of SAEs and SUSARs
- 2) Clinically significant changes from baseline in laboratory evaluations of:
 - Hematology

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- Clinical Chemistry
- Coagulation
- Urinalysis
- 3) Clinically significant changes from baseline:
 - ECG
 - Vital Signs
 - Physical Examination
- 4) Incidence of AEs
- 5) Severity of AEs



SAEs or SUSARs: no serious, severe, life threatening or fatal TEAEs reported during the study.



Hematology: no dose-related trend in changes over time for any treatment groups



Clinical Chemistry: no dose-related trend in changes over time for any treatment groups



Coagulation: no dose-related trend in changes over time for any treatment groups



Urinalysis: no dose-related trend in changes over time for any treatment groups

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ECG: no dose related trends in ECG or adverse events, related to these assessments.



Vital signs: no dose related trends in vital signs or adverse events, related to these assessments.



Physical examination: no dose related trends in physical examinations or adverse events, related to these assessments

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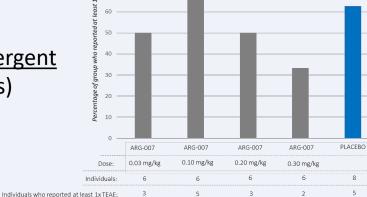
> ASX Announcement titled 'Interim Phase 1 safety report confirms safety of ARG-007' 6 March 2023 ASX Announcement titled 'Final Phase 1 clinical trial report confirms Argenica successfully passes critical milestone' 15 May 2023

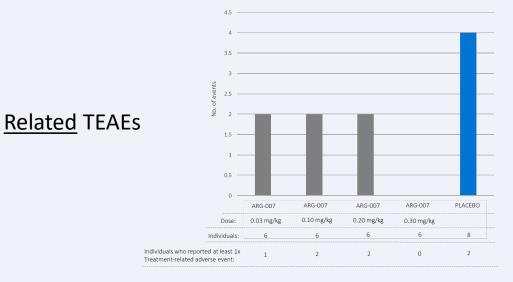
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Treatment <u>Emergent</u> AEs (TEAEs)





TEAEs encompass all adverse events, including signs, symptoms or underlying medical conditions that emerge or worsen during the study.

Related TEAEs are defined as TEAEs where the relationship to the investigational product was reported as 'possibly', 'likely' or 'definitely' related. www.argenica.com.au

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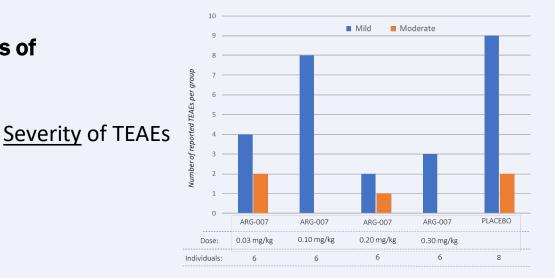
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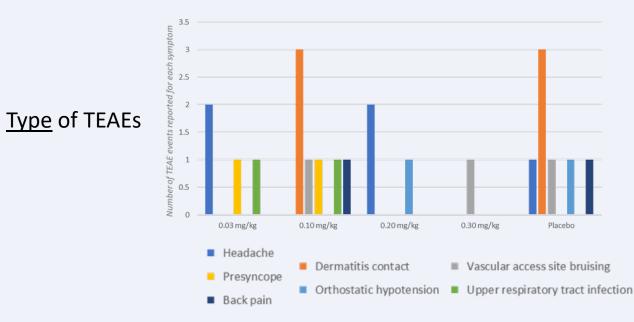
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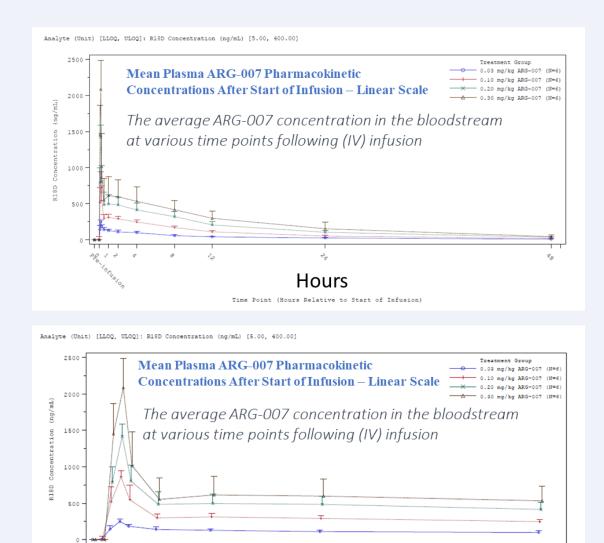


ARGENICA THERAPEUTICS

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RESULTS: SECONDARY OBJECTIVE

- Determine the pharmacokinetic profile of ARG-007 following a single dose
 - The highest concentration of ARG-007 in the plasma observed at the end of infusion (10 minutes).
 - Concentrations of ARG-007 were detected in the bloodstream up to 48 hours after administration.
 - Half-life 12.4 to 15.8 hours
 - The fast-acting nature of ARG-007 is critical to maximise the protection of neurons following acute ischaemia, such as in stroke.



Time Point (Minutes Relative to Start of Infusion

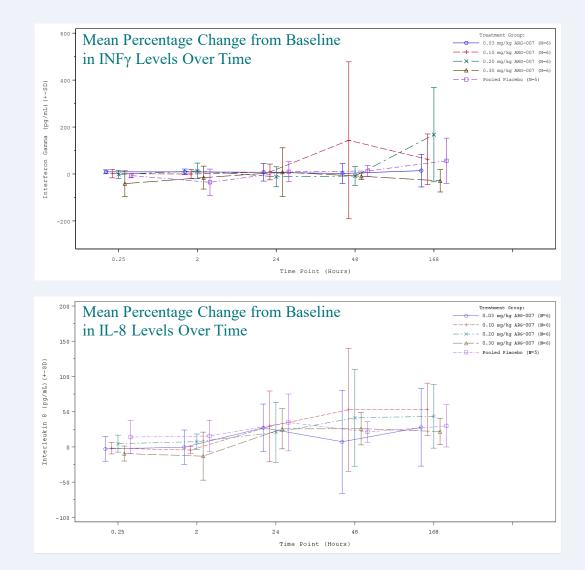
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ARGENICA THERAPEUTICS

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RESULTS: EXPLORATORY OBJECTIVE

- Assess the immune response of ARG-007 following a single dose
 - The presence of cytokines (TNFα, INFγ, IL-1β, IL-2, IL-4, IL-6, IL-8, IL-10 and IL-12) were analysed to investigate whether ARG-007 caused an immune reaction.
 - The only cytokines that were detectable were <u>IL-8 and INFy</u>; neither of which showed any notable trends in change from baseline over time, at any dose.



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Phase 1 primary endpoint successfully achieved:

DOSES OF ARG-007 PROVED SAFE & WELL-TOLERATED, WITH <u>NO</u> SERIOUS ADVERSE EVENTS OR IMMUNE RESPONSE DETECTED.

ASX Announcement titled 'Interim Phase 1 safety report confirms safety of ARG-007' 6 March 2023 ASX Announcement titled 'Final Phase 1 clinical trial report confirms Argenica successfully passes critical milestone' 15 May 2023

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Phase 2 study of ARG-007 in Ischaemic Stroke Patients ("SEANCON")

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THANK YOU