AGM Presentation

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12 November 2024 | Sydney Australia

ASX:NYR

Improving Lives, Offering Hope

Authorised by Mr. John Moore, Non-Executive Chair, on behalf of the Board.

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About Nyrada

- Drug discovery and development company specialising in rational design of novel small molecule therapeutics.

- Nyrada's lead drug candidate NYR-BI03:
  - demonstrated strong preclinical efficacy protecting the brain from secondary injury following stroke.
  - demonstrated strong preclinical efficacy in protecting heart following acute myocardial ischemia-reperfusion injury.
  - preclinical TBI efficacy study with Walter Reed Army Institute of Research and UNSW in progress.
  - Phase Ia Clinical Trial to commence end CY2024.

- Undertaking exploratory works for other indications and opportunities.

- Commercially focused business model and expert team.

Vision and Strategy

Our Vision:

- to become a high-growth pharmaceutical company specialising in the discovery and development of novel treatments

Our Strategy:

- to develop treatments for diseases where there is an unmet clinical need, or where current treatments are suboptimal, and to monetise the value of these treatments through advancing clinical drug candidates towards out-licencing.

Nyrada's Lead Drug Candidate NYR-BI03

First-in-Class with Novel Mechanism of Action

- NYR-BI03 is a first-in-class therapy.
- Novel mechanism of action.
- Australian developed innovation.
- Entering clinic in late CY2024.

Significant Unmet Clinical Need and Market Opportunity

- Targeting multiple indications.
- Stroke, TBI and ischemia-Reperfusion injury are leading causes of death and disability.
- No current FDA approved drugs to treat these conditions.

One Drug

NYR-BI03

Commencing Phase Ia clinical trial in late CY2024

Two Applications

Neuroprotection

Cardioprotection

Three Markets

STROKE

~US$52.2 billion by 2032[2]

TRAUMATIC BRAIN INJURY

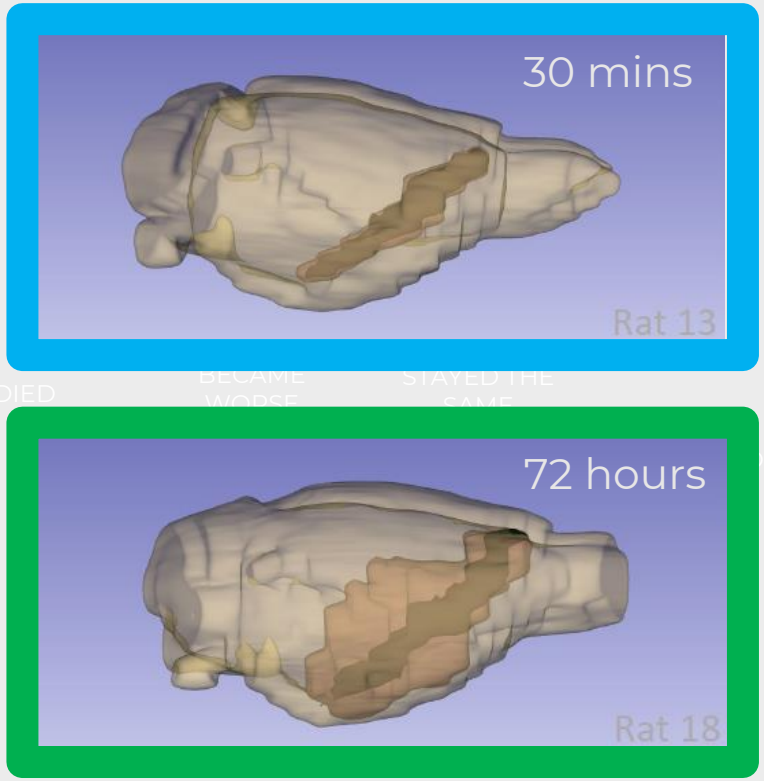
~US$5.5 billion by 2034[4]

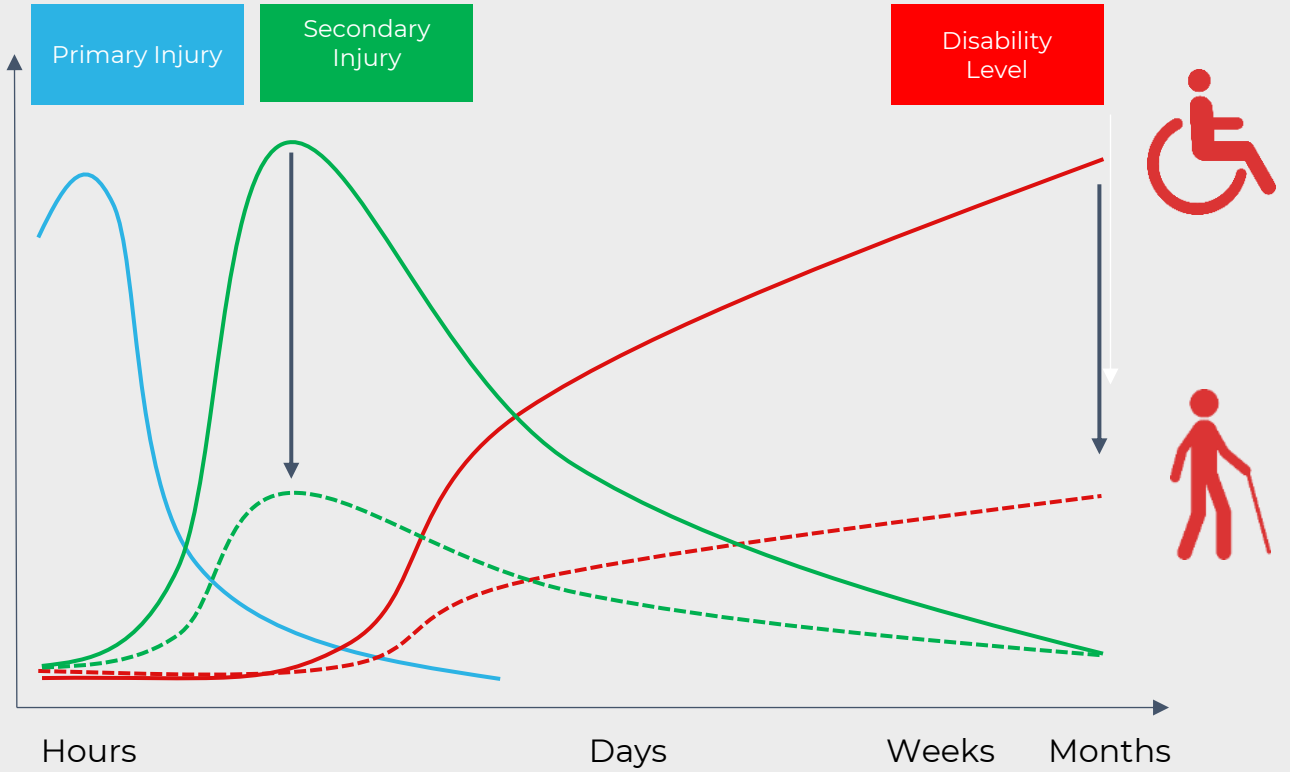
MYOCARDIAL INFARCTION

~US$3.7 billion by 2032[5]

Neuroprotection – Stroke and TBI

Serial reconstruction from MRI





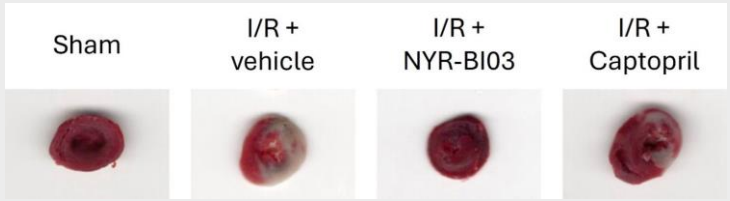
Nyrada drug NYR-BI03
An acute 3-day intravenous treatment

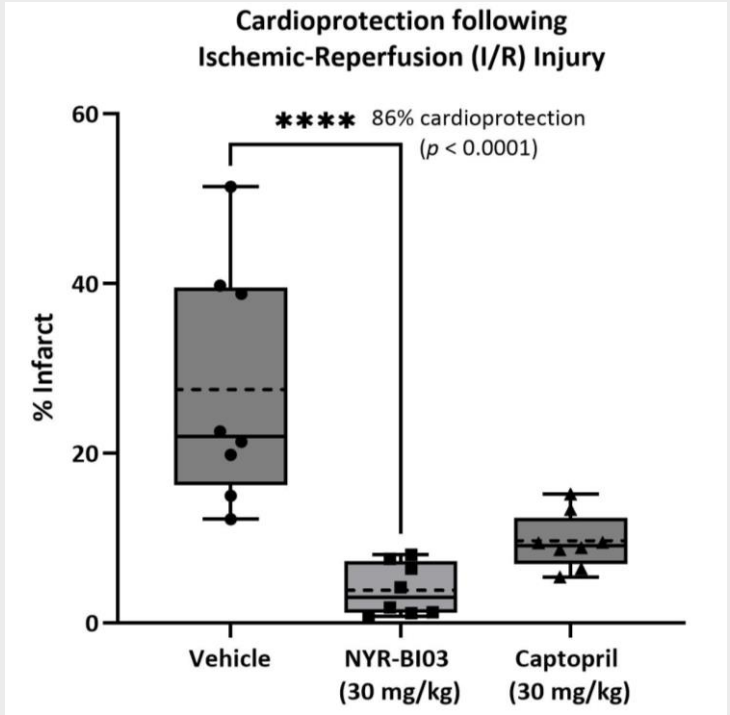
Reduce secondary injury resulting from stroke or TBI

- Improve survivability, limit disability
- Improve quality of life

Cardioprotection

Key Preclinical Results:





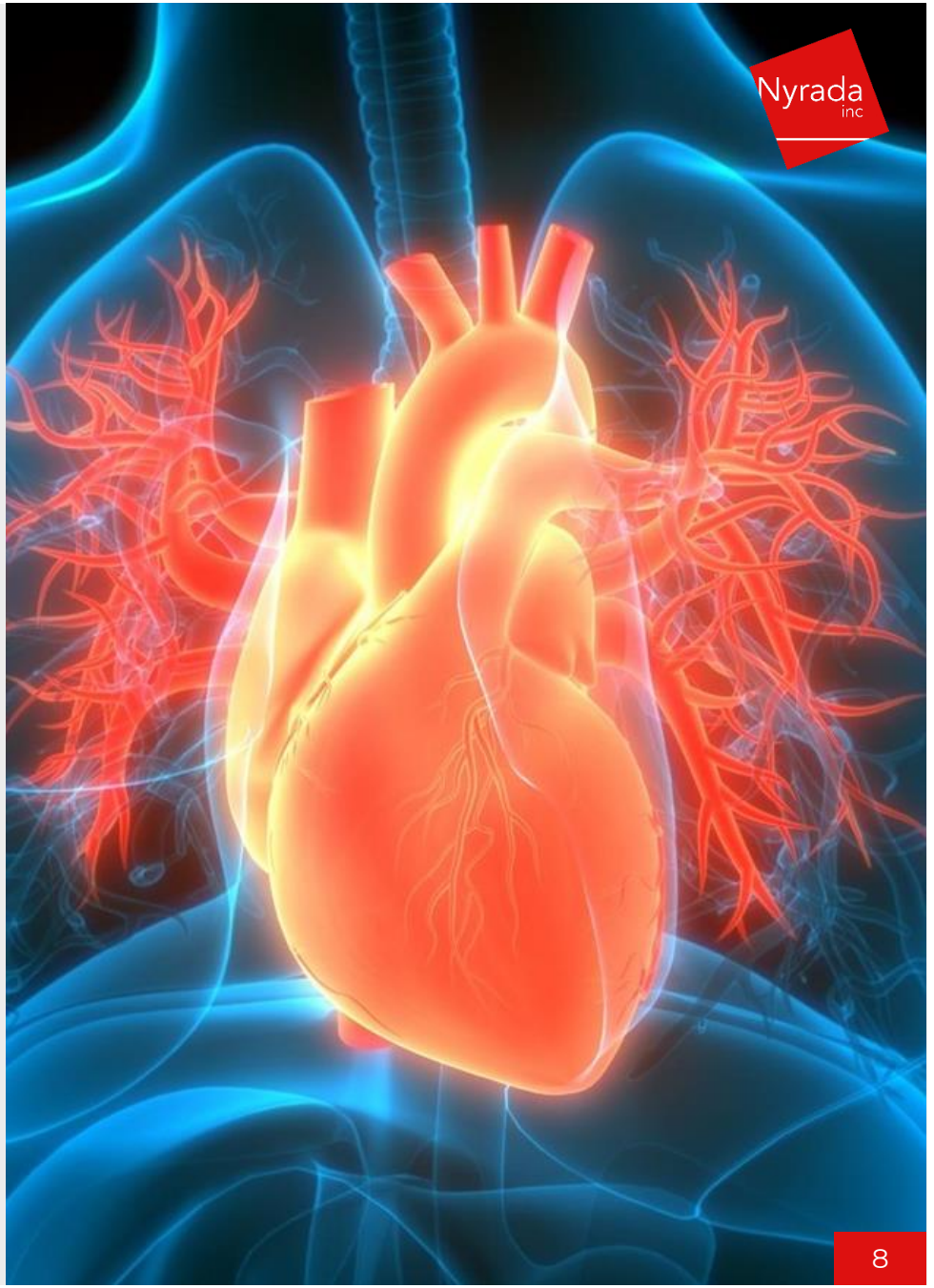
NYR-BI03 showed strong efficacy limiting cardiovascular damage resulting from myocardial ischemia-reperfusion (IR) injury

- **86%** Cardioprotection
- **43%** increase in left ventricular ejection fraction
- **50%** increase in fractional shortening

Key blood biomarker markers assessed

- **42%** decrease in AST levels
- **45%** decrease in LDH levels
- **32%** decrease in Troponin I

Superior efficacy compared to FDA-approved, Captopril



Indicative Phase I Study Design

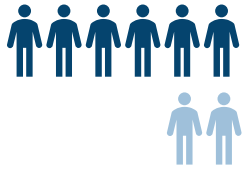
OBJECTIVES To assess the safety, tolerability, and pharmacokinetics of NYR-BI03

DESIGN

- Randomised, double-blind placebo –controlled, dose escalation design
- 5 cohorts; 8 participants each cohort; 6:2 active and placebo treatments
- 3 cohorts will be single ascending doses
- 2 cohorts will be given continuous infusion doses

PARTICIPANTS

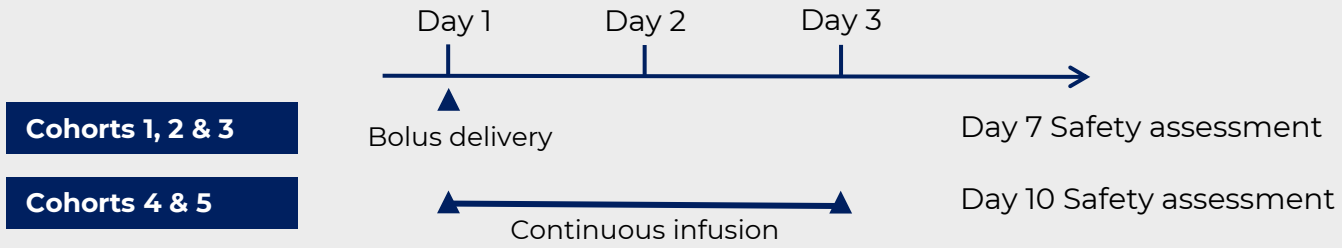
- Male and female healthy volunteers
- 18 – 50 years age



Cohort number	Dose administered
1	Low dose single bolus
2	Medium dose single bolus
3	High dose
4	Low dose continuous infusion (72 hrs)
5	High dose continuous infusion (72 hrs)

LOCATION & DURATION

- Study will be conducted at a clinical trial centre in Australia expected to commence 4QCY2024
- Study duration will vary between 1 – 4 days



*trial design subject to ethics approval

Financial Overview and Outlook

FY2024 Highlights and FY2025 Outlook

- **Resources**
  - Cash balance of AU$2.98 million at 30 September 2024
  - Expected R&D rebate of AU$1.38 million subject to Government Agency Review
  - AU$3.36 million (before costs) in new equity capital raised in October 2024.
  - Target AU$1.00 million (before costs) SPP to close in December 2024
- **Programs**
  - Demonstrated preclinical neuroprotection and cardioprotection
  - NYR-BI03 commencing Phase I clinical trial in late 2024

Operating Results Summary

	FY2024 (AU$)	FY2023 (AU$)
R&D Costs	2,030,502	6,411,264
Corporate and admin expenses	577,842	641,117
Share-based payment expense	358,074	541,214
Professional services expense	477,948	409,523
Employment benefits expense	1,127,500	1,100,136

Conclusion

- **Summary**
  - Pioneering transient receptor potential canonical (TRPC) channel blocking therapies.
  - First-in-class neuroprotection and cardioprotection therapy with novel mode of action.
  - One drug asset targeting two significant therapeutic areas and three large markets.

- **News Flow**
  - Late CY2024 - NYR-BI03 Clinical Trial Commencement
  - Early CY2025 - WRAIR TBI study readout
  - 1HCY2025 - Progressive updates on NYR-BI03 Clinical Trial

References

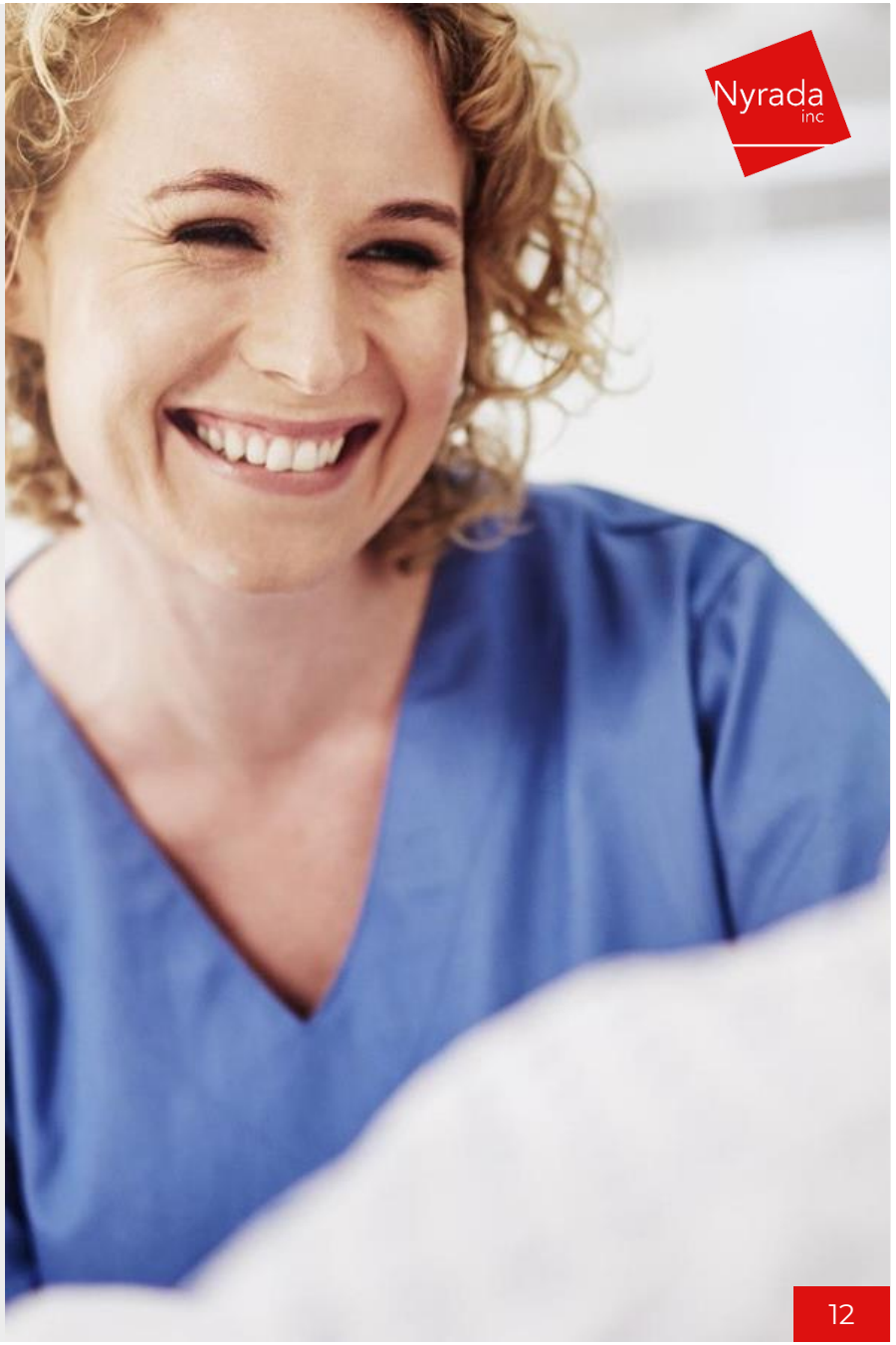
1 – World Health Organization - https://www.emro.who.int/health-topics/stroke-cerebrovascular-accident/index.html#:~:text=Annually%2C%2015%20million%20people%20worldwide,cause%20is%20high%20blood%20pressure

2 – Databridge Market Research - https://www.databridgemarketresearch.com/reports/global-stroke-market .

3 – National Academy of Sciences - https://nap.nationalacademies.org/catalog/25394/traumatic-brain-injury-a-roadmap-for-accelerating-progress

4 – Databridge Market Research - https://www.databridgemarketresearch.com/reports/global-traumatic-brain-injuries-treatment-market

5 – Spherical Insights – https://www.globenewswire.com/en/news-release/2023/05/30/2678779/0/en/Global-Myocardial-Infarction-Market-Size-To-Grow-USD-3-7-Billion-By-2032-CAGR-of-6-8.html



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