



6 August 2025

Sydney, Australia

## BioShares Biotech Summit Presentation

**Nyrada Inc (ASX:NYR)**, a clinical stage drug discovery and development company focused on innovative Transient Receptor Potential Canonical (TRPC) ion channel inhibitors, provides the enclosed investor presentation to be delivered by CEO James Bonnar at the BioShares Biotech Summit on Friday 8 August 2025.

-ENDS-

### About Nyrada Inc.

Nyrada Inc. is a clinical-stage biotechnology company focused on the discovery and development of innovative small-molecule therapies, specifically targeting Transient Receptor Potential Canonical (TRPC) ion channels. The company's lead candidate, Xolatryp™, has shown efficacy in both cardioprotection and neuroprotection, and has just completed a first-in-human Phase I clinical trial. Nyrada Inc. (ARBN 625 401 818) is incorporated in Delaware, US, with limited liability for its stockholders.

[www.nyrada.com](http://www.nyrada.com)

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

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Nyrada  
inc

# Investor Presentation

**BioShares Presentation - August 2025**

James Bonnar – CEO

**Improving Lives, Offering Hope**

**ASX:NYR**

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on behalf of the Board.



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# Nyrada Overview

- › Small molecule drug discovery and development company
- › Focus on calcium channel dysfunction
- › Lead drug candidate – Xolatryp (NYR-BI03).
  - › Potent 3<sup>rd</sup> generation TRPC 3, 6 and 7 channel inhibitor
  - › Novel and well-understood mechanism of action
  - › Solid scientific foundation
  - › Preclinical efficacy across multiple therapeutic areas
- › Development status
  - › Phase I completed (safety, tolerability, PK)
  - › Progressing into Phase IIa (myocardial infarction targeting reperfusion injury)



# TRPC Channel Inhibition - Origins

**Lutz Birnbaumer**

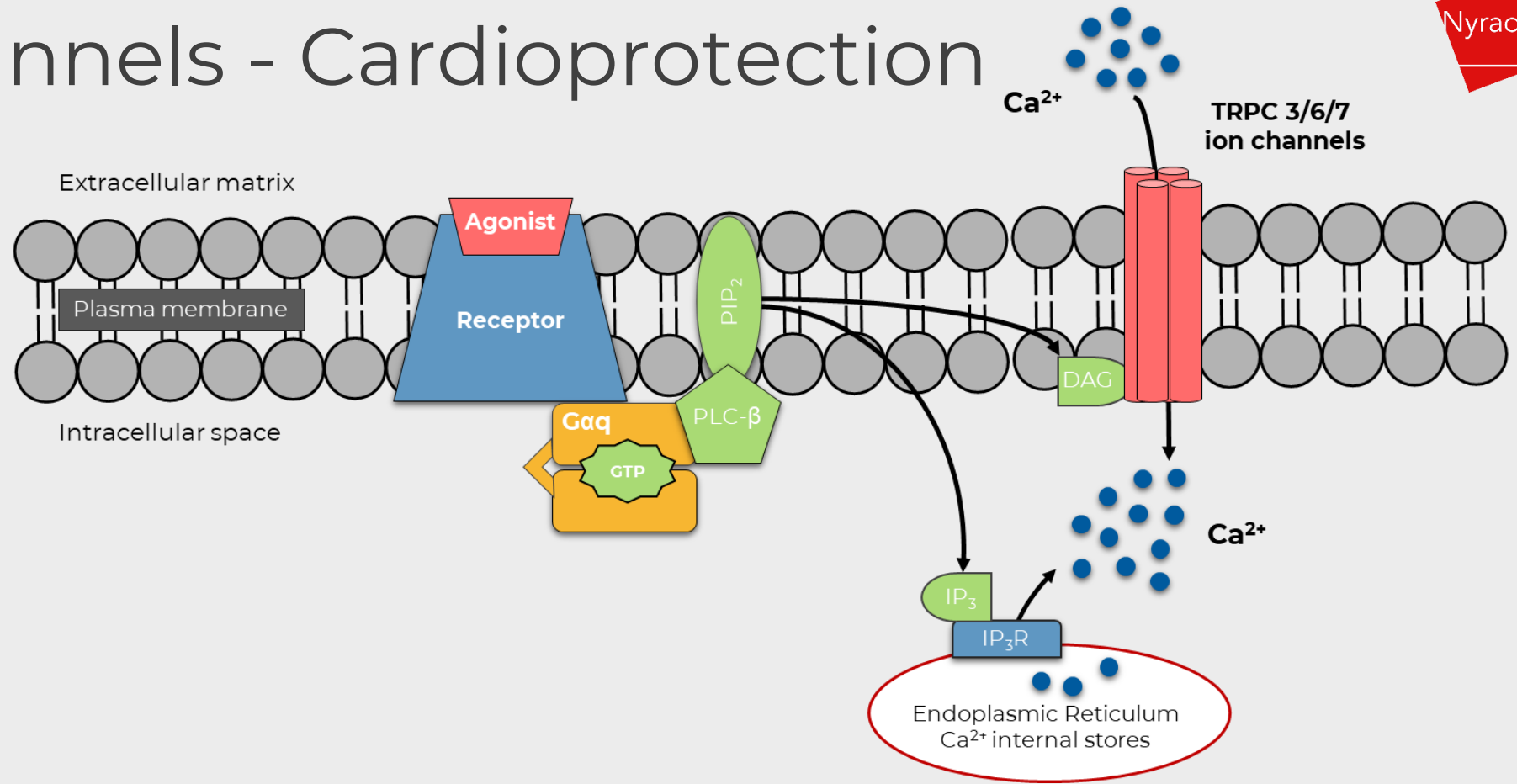


**Birnbaumer's Mice**



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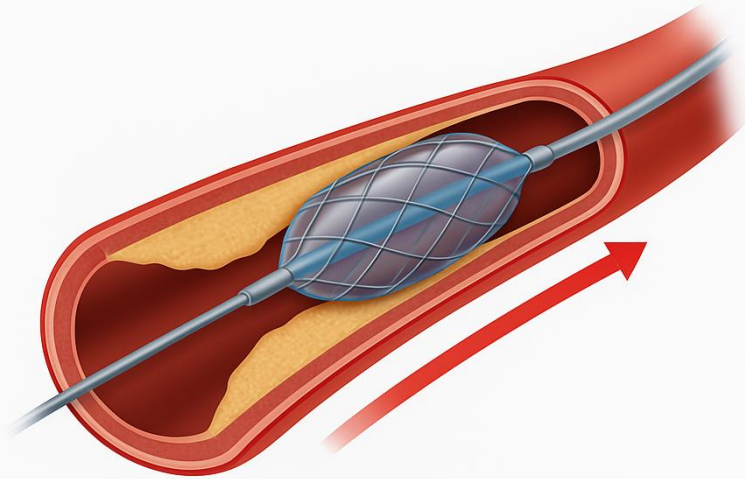
# TRPC Channels - Cardioprotection



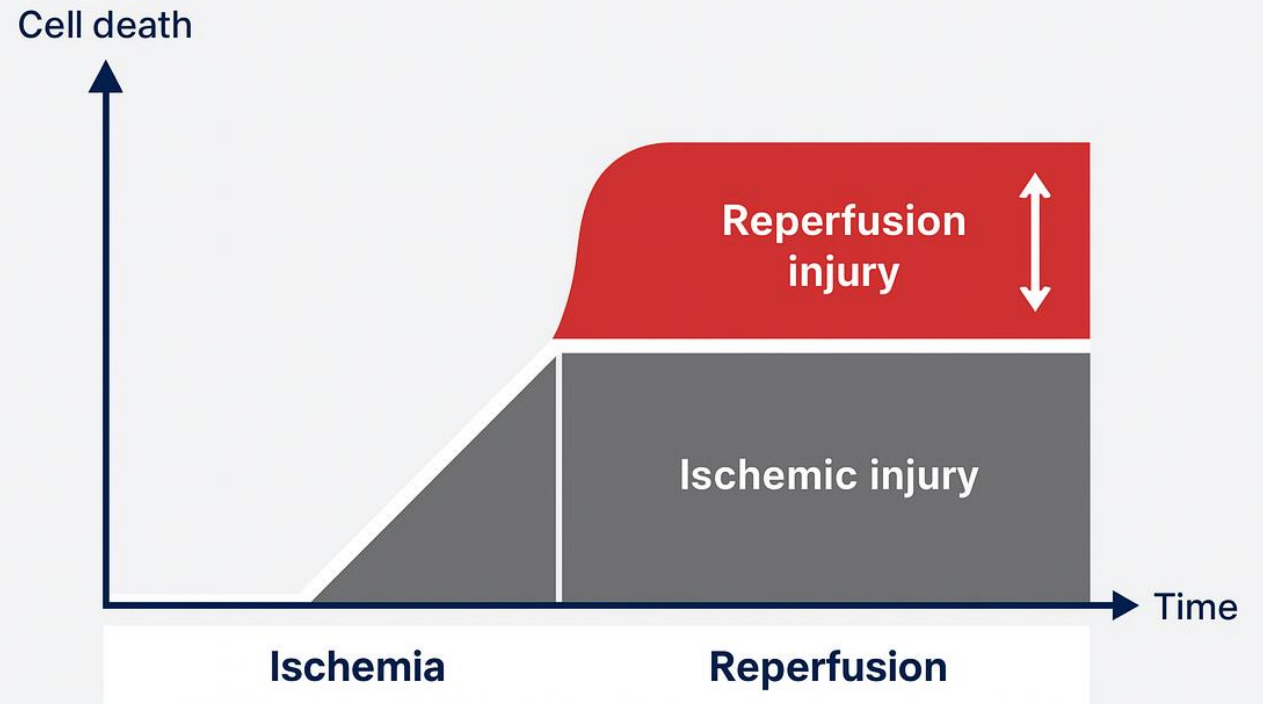
Cell Type	TRPC Activation Effect	Xolatryp Inhibition Effect
<b>Cardiomyocytes</b>	Calcium overload → cell death	Prevents damage, preserves function and contractility
<b>Endothelial</b>	Impaired repair → poor blood flow	Enhances vessel repair, reduces inflammation
<b>Fibroblasts</b>	Excessive scarring → stiff heart	Limits scarring, preserves flexibility

# Ischemia Reperfusion – Last Cardiac Frontier

## Coronary PCI (angioplasty)



Blood flow restoration

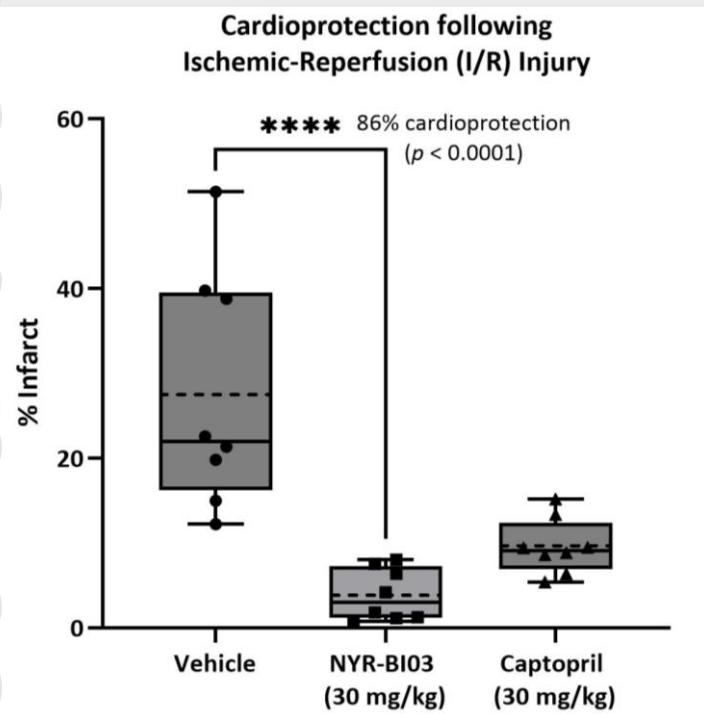
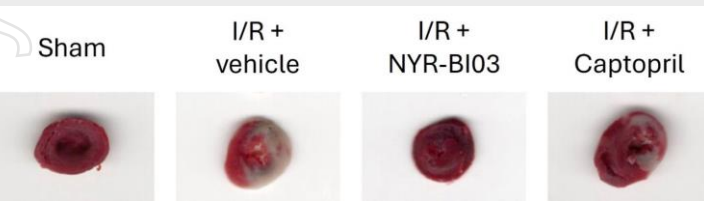


PCI (Balloon Angioplasty):

- First procedure in 1977, stents in 1994,
- Standard of care for STEMI by early 2000s

# Preclinical Study 1

## Key Preclinical Results:



**Xolatryp** 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



# Preclinical Study 2

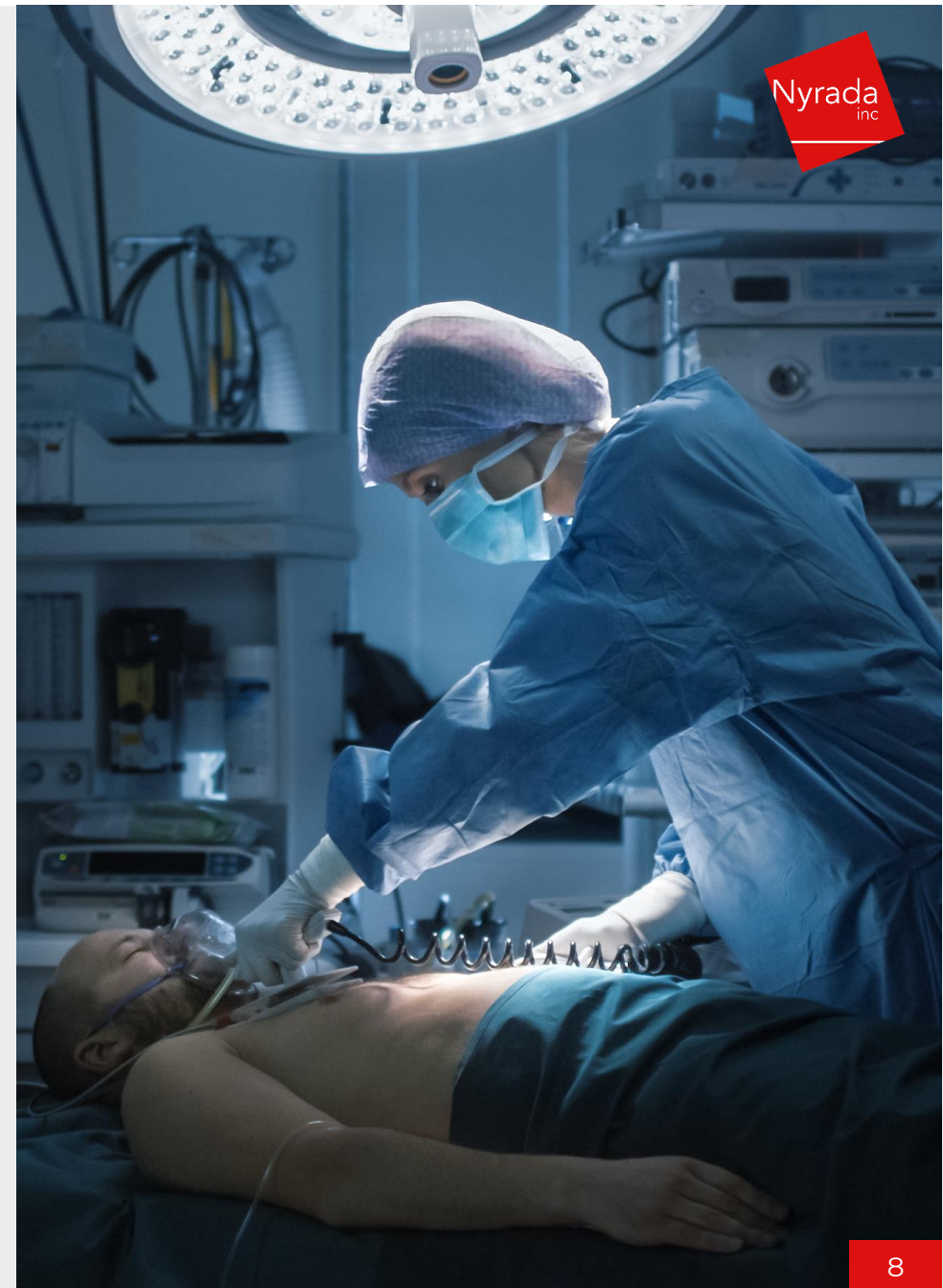
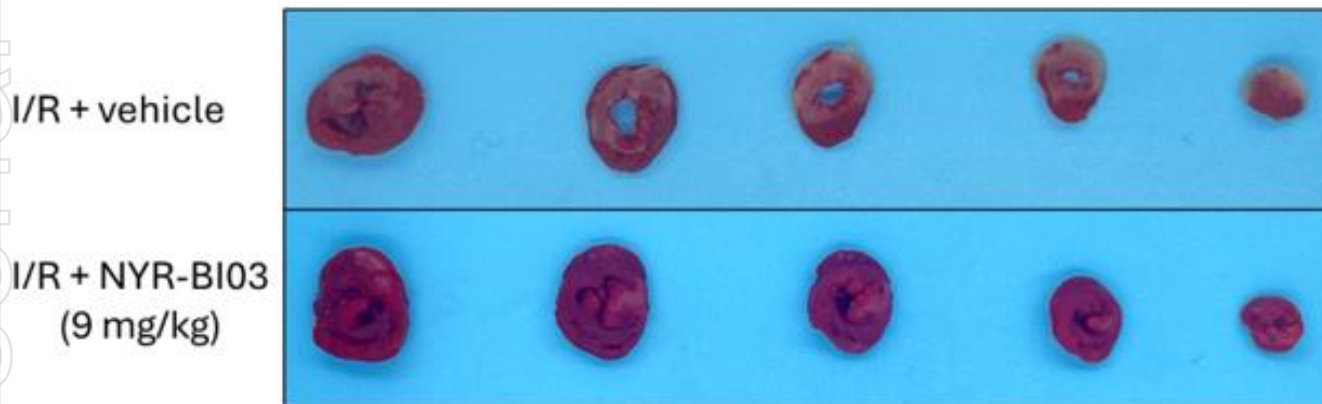
## Key Preclinical Results:

**Xolatryp** showed strong efficacy limiting cardiovascular damage resulting from myocardial ischemia-reperfusion injury when administered as a short-duration intravenous infusion

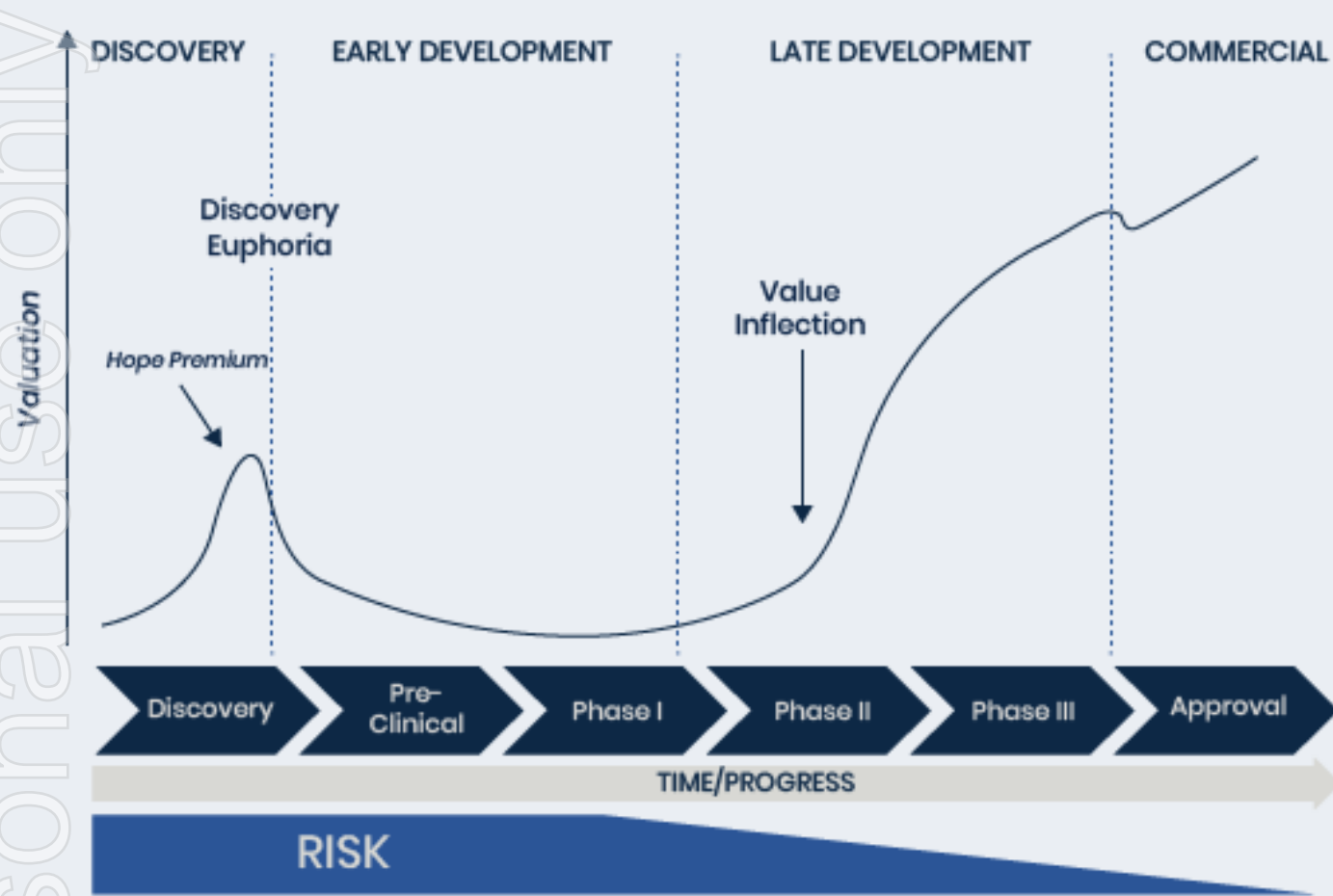
- **42%** Cardioprotection
- **88%** decrease in arrhythmias at 1 hour
- **90%** decrease in arrhythmias at 3 hours

Key blood biomarker markers assessed

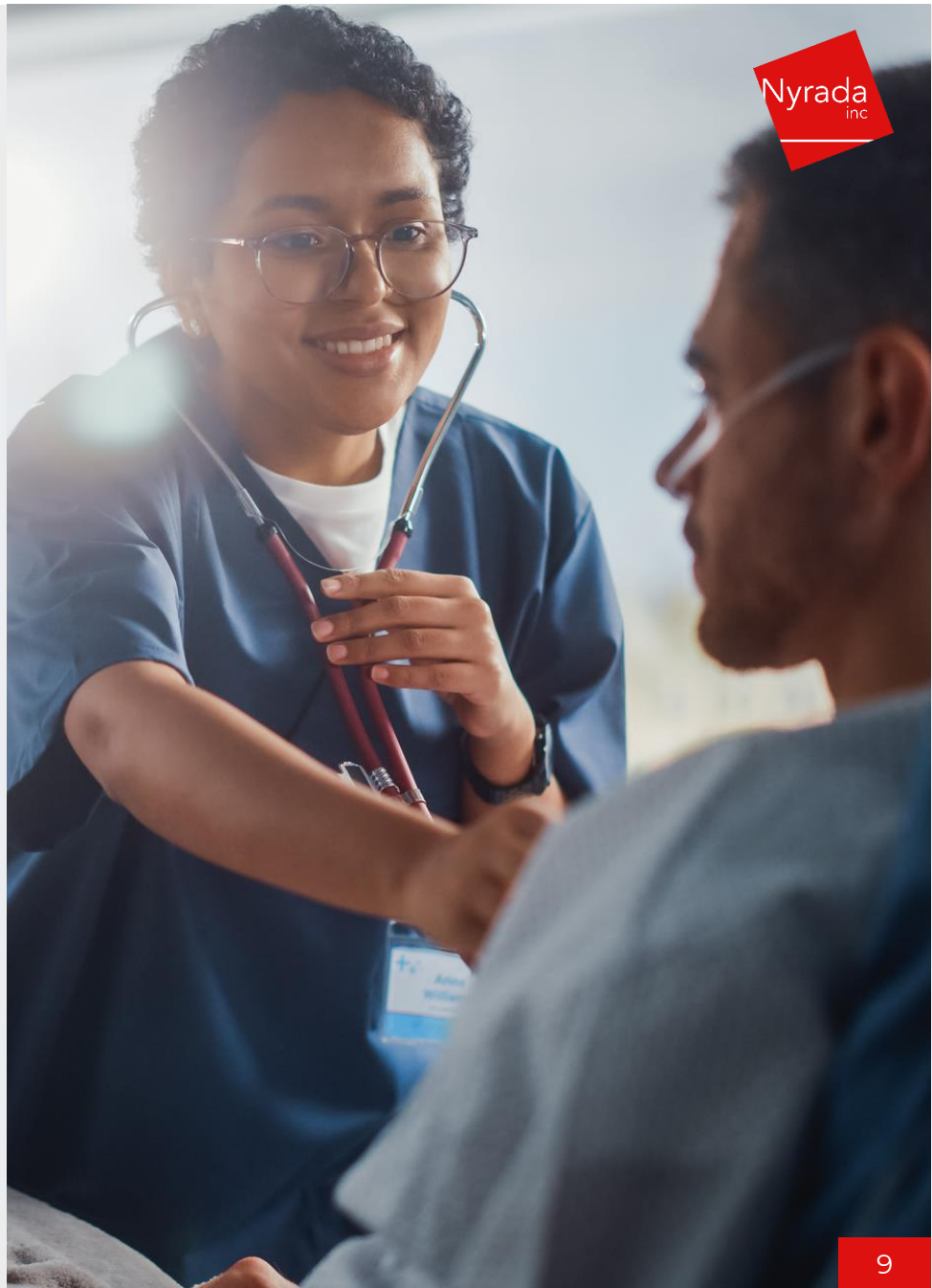
- **32%** decrease in Troponin I
- **21%** decrease in ALT levels



# Poised for Value Inflection



Source: Karst Peak Rx - [www.kp-rx.com](http://www.kp-rx.com)



# Conclusion

## › **Nyrada – the company**

- › Pioneering TRPC channel inhibition therapies
- › AU\$2.93 million cash position at end June 2025
- › AU\$8.25 million capital raised in August 2025

## › **Xolatryp – the lead drug asset**

- › Solid scientific foundations and well understood mechanism of action
- › Composition of matter patent pending
- › Preclinical efficacy demonstrated in myocardial infarction reperfusion injury, ischemic stroke, and traumatic brain injury (TBI)
- › Phase I (safety, tolerability, PK) clinical trial completed
- › Phase IIa (safety and efficacy) clinical trial in planning

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