



23 July 2020

Sydney, Australia

## Nyrada Roadshow Corporate Presentation

Nyrada Inc. (ASX: NYR) provides to shareholders and the market generally, the attached corporate presentation for a series of virtual investor events in late July and early August 2020.

The document titled, 'Nyrada Inc. New Therapies for Cardiovascular and Neurological Diseases Corporate Presentation July/August 2020' provides an updated overview of Nyrada's progress since the Company's IPO in January this year.

The presentation can also be found at: [www.nyrada.com/site/investors/presentations](http://www.nyrada.com/site/investors/presentations)

-ENDS-

### About Nyrada Inc

Nyrada is a preclinical stage, drug discovery and development company, specialising in novel small molecule drugs to treat cardiovascular, neurological and inflammatory diseases. The Company has two main programs, each targeting market sectors of significant size and considerable unmet clinical need. These are a cholesterol lowering drug and a drug to treat brain injury, specifically traumatic brain injury and stroke. Nyrada Inc. ARBN 625 401 818 is a company incorporated in the state of Delaware, USA, and the liability of its stockholders is limited.

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

*Authorised by John Moore, Non-Executive Chairman, on behalf of the Board*

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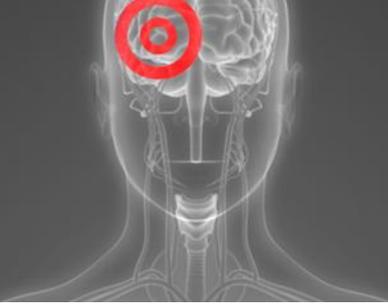
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### **Forward-Looking Statements**

This announcement may contain forward-looking statements. You can identify these statements by the fact they use words such as “aim”, “anticipate”, “assume”, “believe”, “continue”, “could”, “estimate”, “expect”, “intend”, “may”, “plan”, “predict”, “project”, “plan”, “should”, “target”, “will” or “would” or the negative of such terms or other similar expressions. Forward-looking statements are based on estimates, projections and assumptions made by Nyrada about circumstances and events that have not yet taken place. Although Nyrada believes the forward-looking statements to be reasonable, they are not certain. Forward-looking statements involve known and unknown risks, uncertainties and other factors that are in some cases beyond the Company’s control that could cause the actual results, performance or achievements to differ materially from those expressed or implied by the forward-looking statement.



# Improving Lives, Offering Hope

*New Therapies for Cardiovascular & Neurological Diseases*

Corporate Presentation  
July/August 2020

James Bonnar – CEO  
Prof. Gary Housley – Chair, Scientific Advisory Board

ASX:NYR



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# Nyrada Summary

## Drug discoverer and early stage developer

Diverse product portfolio, significant therapeutic and commercial potential, near term milestones.

Cholesterol lowering (PCSK9 inhibitors) program to help up to 70% of patients taking statin drugs, a market worth approximately US\$19 billion.

Brain injury neuroprotectant program to help the more than 2.8 million people in the US who sustain a brain injury and 800,000 who suffer a stroke.

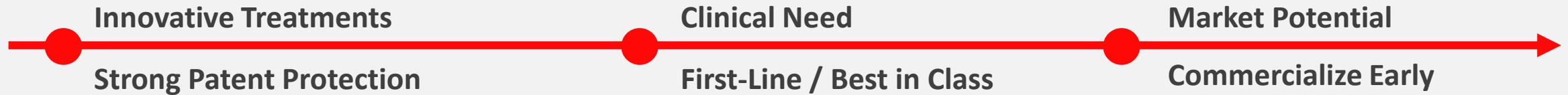
High calibre Board and Scientific Advisory Board, including highly connected industry and research experts in the US, Europe, Japan and Australia.

Well-funded to move programs into the clinic having raised \$8.5M at IPO, with \$5.1M cash in bank.

Commercial business model focused on maximising the value of early stage product candidates.



# Business Model & Strategy



## Cardiovascular



- 💊 Cholesterol-lowering treatment
- 💊 Value inflection point within 3 years
- 💊 US\$19B market

## Neurology

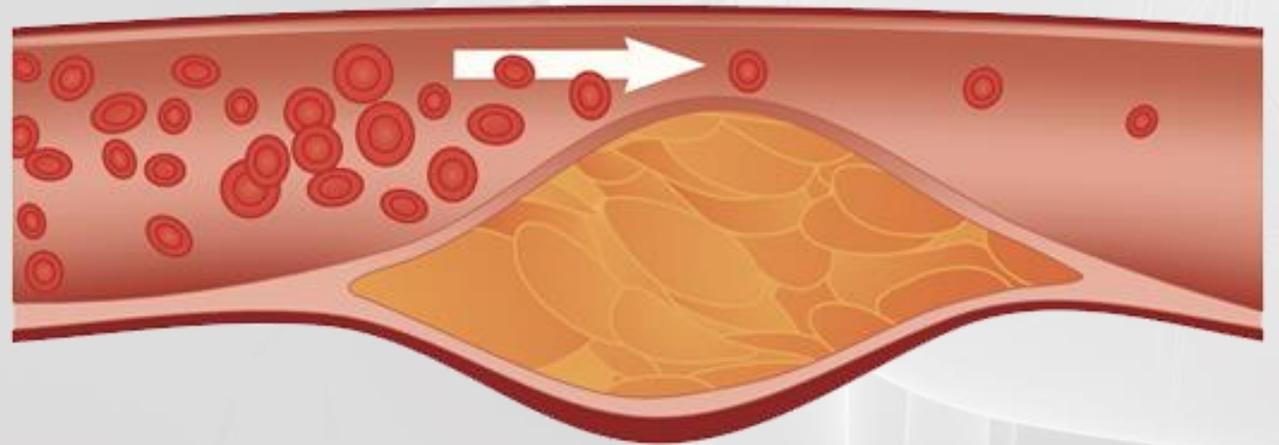


- 💊 Brain injury treatment (stroke & head trauma)
- 💊 Value inflection points at 3 and 5 years
- 💊 US\$20B market

# Cholesterol and Cardiovascular Disease

## 1 in 4 Deaths attributed to Cardiovascular Disease

- Tobacco use
- High blood pressure
- **High LDL cholesterol**



# Cholesterol Problem (US)

**62.6 million**

Total US adults with  
elevated LDL-C

**19.4 million**

Unable to achieve  
LDL-C target despite  
taking statin therapy

**27.4 million**

US adults with elevated  
LDL-C are taking a statin

# Current Treatment Options



Low cost generic statins available  
US\$16 for 100 pills



Suboptimal efficacy  
Side effects



Effective, combined with statin



Expensive US\$5,800 per year  
Inconvenient

US\$900M global PCSK9 Inhibitor market in 2019

US\$19B global cholesterol-lowering drugs market in 2017 (CAGR 4.9%)<sup>1</sup>

<sup>1</sup> Visiongain Market Research - Global Cholesterol-Lowering Drugs Market 2017-2027: Statins and Fixed-Dose Combinations, Cholesterol Absorption Inhibitors, Ion Exchange Resins, Fibrates, PCSK9 Inhibitors, Novel Drugs.

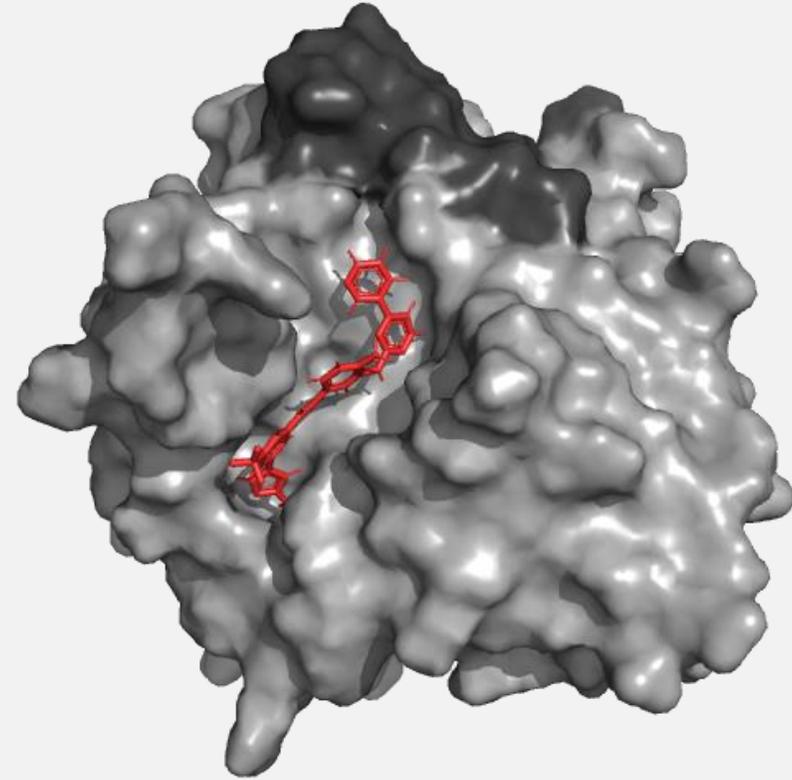
# Nyrada Cholesterol-Lowering Solution

Nyrada  
inc

NYX-PCSK9i binds to PCSK9

Blocks action of PCSK9  
on cholesterol receptor

High PCSK9 =  
high LDL cholesterol



Small molecule PCSK9 inhibitor  
overcomes longstanding challenge  
of an oral PCSK9 treatment

# What is Unique?

Single pill  
treatment

Convenient  
for patient

Cost-  
effective



# NYX-PCSK9i Compared to Repatha<sup>®</sup> and Praluent<sup>®</sup>

- Nyrada NYX-PCSK9i shows equivalency to Repatha<sup>®</sup> and Praluent<sup>®</sup> in human white blood cells
- Confirmed with/without a statin, supporting NYX-PCSK9i use alone or in combination with statin

- Mevastatin

+ Mevastatin

% LDLR retention

p-value

% LDLR retention

p-value

No drug	51%	n/a	64%	n/a
NYX-PCSK9i (1 μM)	53%	0.74	78%	0.13
NYX-PCSK9i (2 μM)	64%	0.01	77%	0.06
→ NYX-PCSK9i (4 μM)	<b>89%</b>	<b>0.001</b>	<b>90%</b>	<b>0.003</b>
alirocumab (Praluent <sup>®</sup> )	78%	0.002	88%	0.04
evolocumab (Repatha <sup>®</sup> )	84%	0.0009	89%	0.0001

# Brain Injury Problem

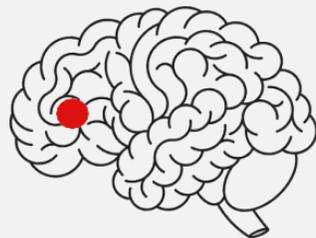
## Each year in the US:

- 2.8 million people sustain a traumatic brain injury (TBI)
- 800,000 suffer a stroke

Neurology / physical rehabilitation only existing therapies

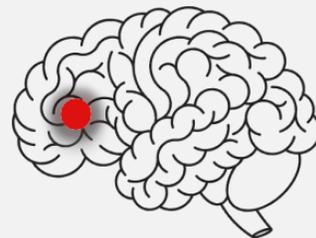
- One drug class for stroke (Suitable for less than 15% of patients)
- No treatment exists for TBI

- High mortality
- Severe life-long disability
- High ongoing healthcare cost

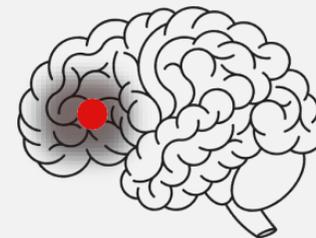


*Minutes*

**Initial injury size**



*Hours*



*Days*

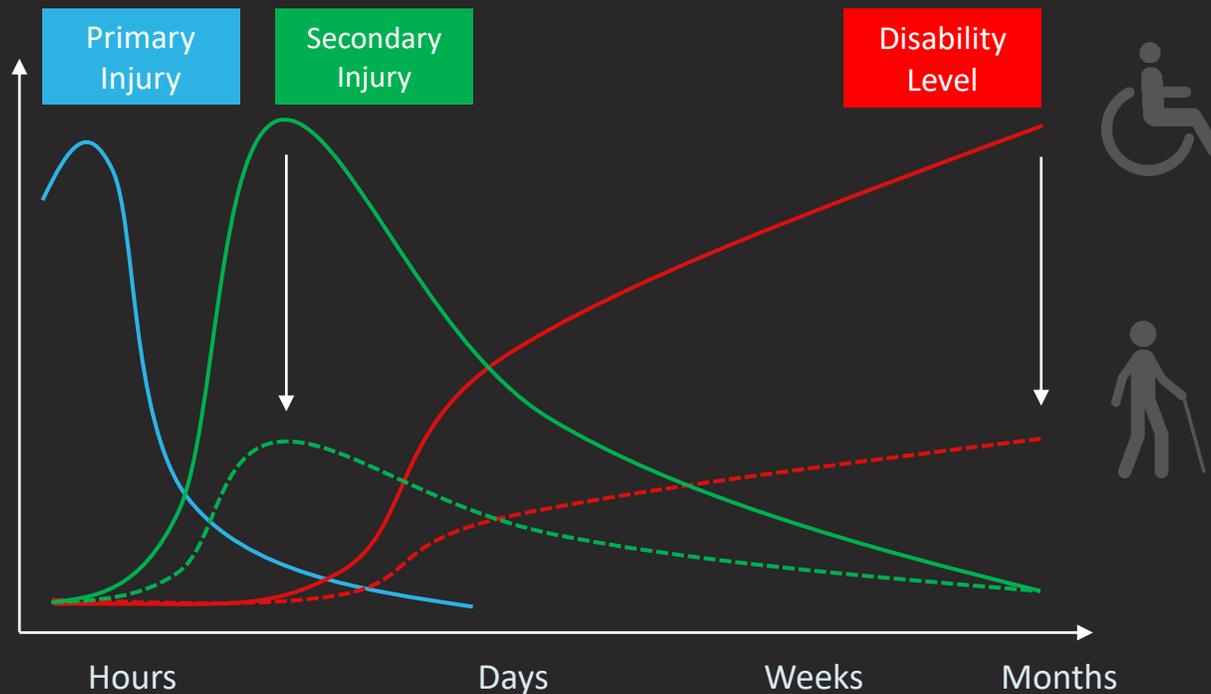
**Final injury size**

# Nyrada Brain Injury Solution



## Treatment for secondary brain injury following Stroke or TBI

- Prevent cell death
- Attenuate damaged brain volume
- Improve survivability, limit disability, improve quality of life



# Brain Injury Drug Market (US)

Hospital admissions each year / patients who present <12hr

**Traumatic  
Brain Injury**  
(Moderate / Severe)

210,000

**Stroke**

490,000

**700,000**  
**patients**

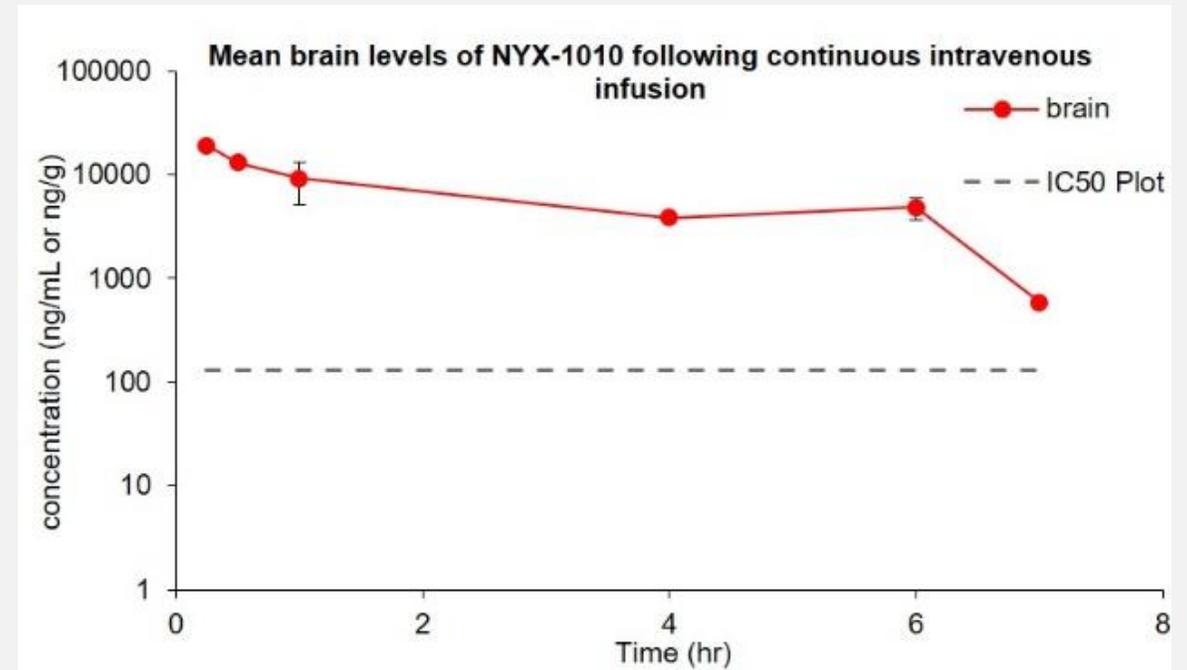
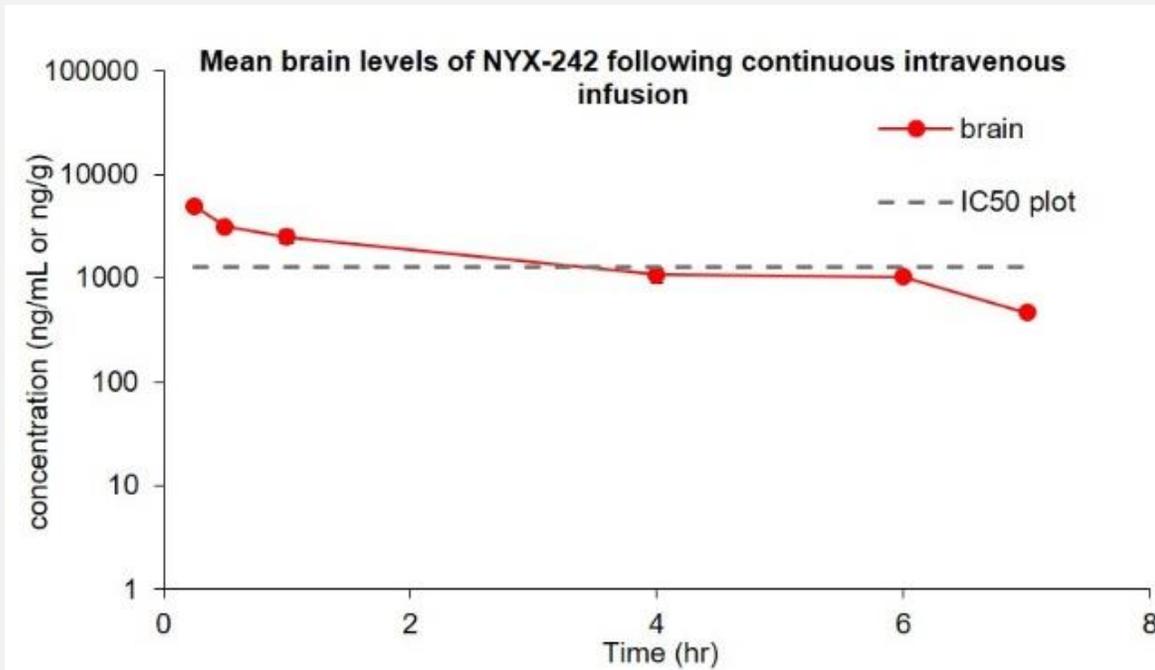
Annual US market size for  
brain injury combined  
(approx.)

**US\$20B global severe TBI treatment market in 2024 (CAGR 5%)<sup>1</sup>**

<sup>1</sup> Energias Market Research, Global Traumatic Brain Injuries Treatment Market Outlook, Trend and Opportunity Analysis, Competitive Insights, Actionable Segmentation & Forecast 2024

# Preclinical Pharmacokinetic Rat Study

- Lead drug candidates maintained at therapeutic levels in the brain in PK rat study (intravenous dosing)
- Demonstrates delivery via preferred route for patients suffering from stroke and moderate-severe TBI with desired PK profiles for clinical studies



# Program Status

Proof-of-concept  
established



Lead optimisation well  
advanced



First-in-human studies  
(Phase I)

- Cholesterol-lowering Drug:  
**late-2021**
- Brain Injury Drug:  
**mid-2022**



# Board of Directors



**Mr John Moore**  
Non-Executive  
Chairman



**Dr Graham Kelly**  
Non-Executive  
Director



**Christopher Cox**  
Non- Executive  
Director



**Mr Peter Marks**  
Non- Executive  
Director



**Mr Marcus Frampton**  
Non- Executive  
Director



**Dr Rüdiger Weseloh**  
Non- Executive  
Director

- 📌 **Nyrada operates under the direction of a board of international calibre**
- 📌 **Track record in founding and realising the value of biotech companies**

# Key Metrics & News Flow

Market capitalisation  
(as at 22 July 2020) **\$21M**

Share price  
(as at 22 July 2020) **\$0.19**

CDIs free float **76,072,869**

CDIs 12 months escrow **205,000**

CDIs 24 months escrow **33,105,853**

Cash at bank (30 June 2020) **A\$5.1M**

ASX listing **January 16, 2020**

H2 2020	H1 2021	H2 2021	H1 2022
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Clinical candidate selection for  
cholesterol program: 

Clinical candidate selection for  
neuroprotectant program: 

Cholesterol-lowering program  
to enter clinic: 

Neuroprotection program  
to enter clinic: 



Further preclinical results: **ongoing**

Potential industry collaborations / non-dilutive funding: **ongoing**

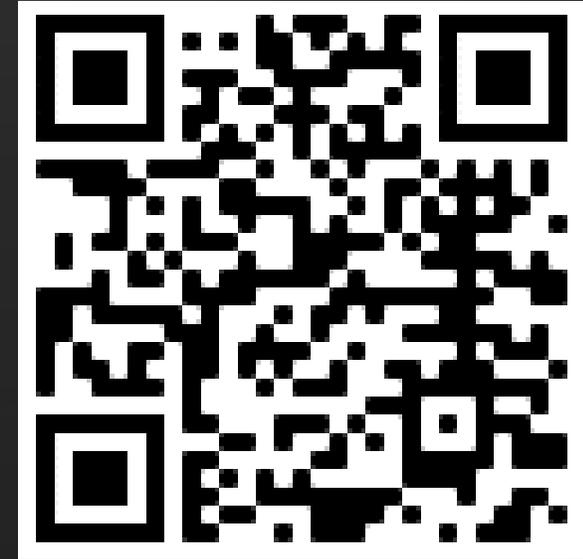
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