



INVESTOR PRESENTATION

James Bonnar, Nyrada CEO

March 2021

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



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Vision

We can improve lives and offer hope through innovation

-  Deliver a cost-competitive and convenient cholesterol-lowering treatment to help achieve target safe cholesterol level
Reduce risk of cardiovascular disease (heart attack and stroke)
-  Deliver the first-ever treatment to prevent brain damage following stroke and head trauma (falls, motor vehicle accidents)
Improve survivability, reduce disability

Mission

Advance our drug candidates towards value inflection and commercialise early

Business Strategy

Drug discovery
and early-stage
developer

Cholesterol-Lowering drug

Oral *PCSK9 inhibitor* to be used alone as a monotherapy, or in combination with a statin
- Out-license following Phase I study

Brain Injury drug

Intravenous and intranasal drug to help people who sustain a traumatic brain injury (TBI) or suffer a stroke (NYX-1010 compound)
- Out-license following Phase II study

Innovative Treatments

Best-in-Class / First-Line

Clinical Need

Strong Patent Protection

Market Potential

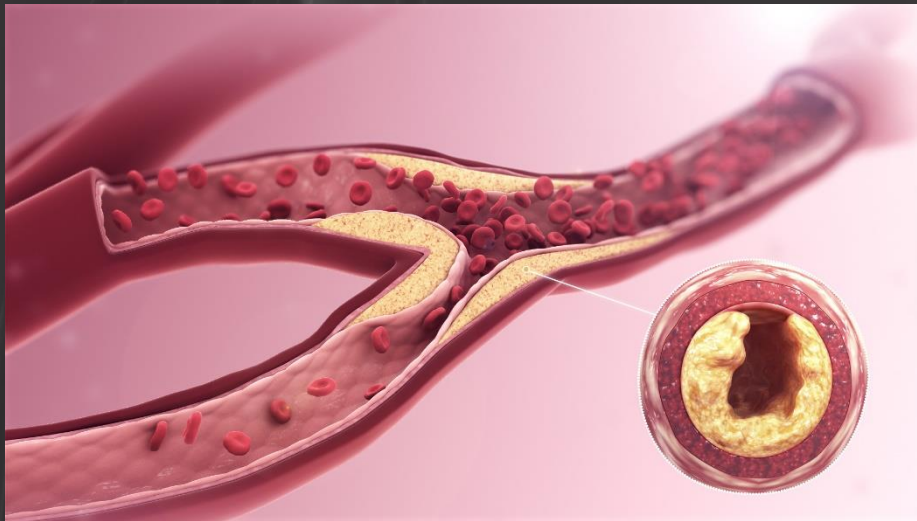
Commercialise Early

Problem – High LDL Cholesterol

High LDL Cholesterol leading cause of cardiovascular disease

Cardiovascular disease responsible for 1-in-4 deaths¹

62.6 million US adults with elevated LDL-C²



1. Centers for Disease Control and Prevention, Heart Disease Facts: Virani SS, Alonso A, Benjamin EJ, Bittencourt MS, Callaway CW, Carson AP, et al. Heart disease and stroke statistics—2020 update: a report from the American Heart Association.
2. Wong ND et al. Prevalence of the American College of Cardiology/American Heart Association statin eligibility groups, statin use, and low-density lipoprotein cholesterol control in US. J Clin Lipidology. 2016

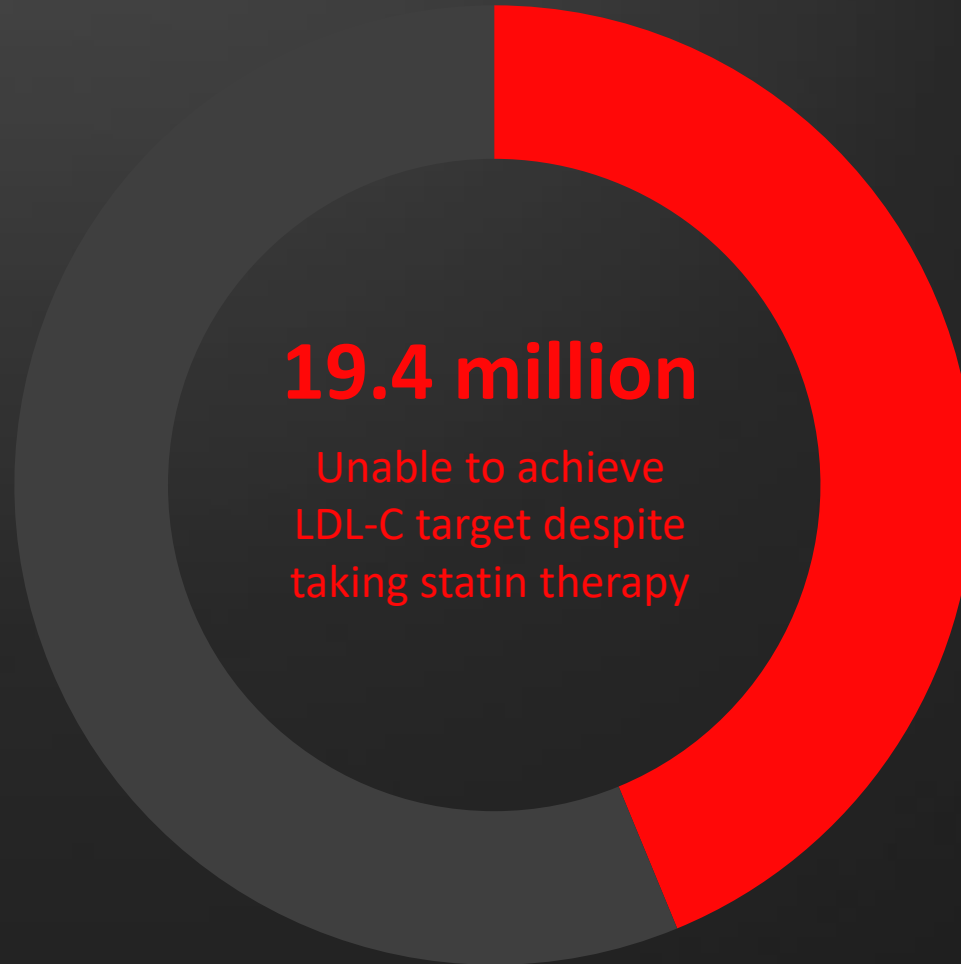
Statin Drugs



Low cost



Suboptimal efficacy



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 PCSK9 Inhibitors



Binds to PCSK9 protein

Blocks action of PCSK9
on cholesterol receptor



Effective, combined with a statin



Expensive US\$5,800 per year
Inconvenient (2-4 weekly injections)

Statin + current PCSK9 inhibitor = expensive and inconvenient

Nyrada's Unique Solution

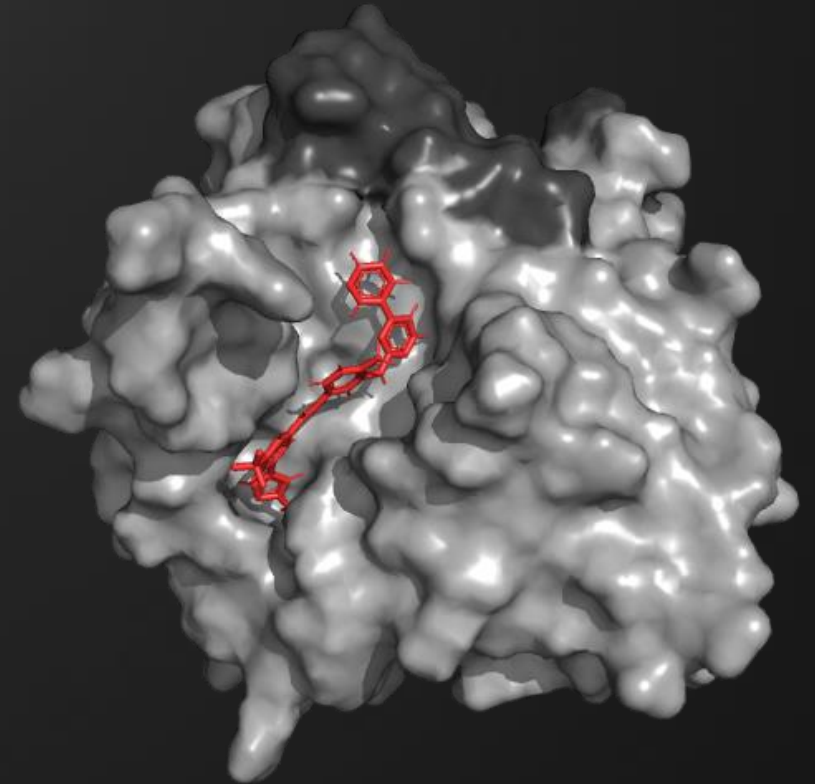
Oral PCSK9
treatment

Convenient
for patient

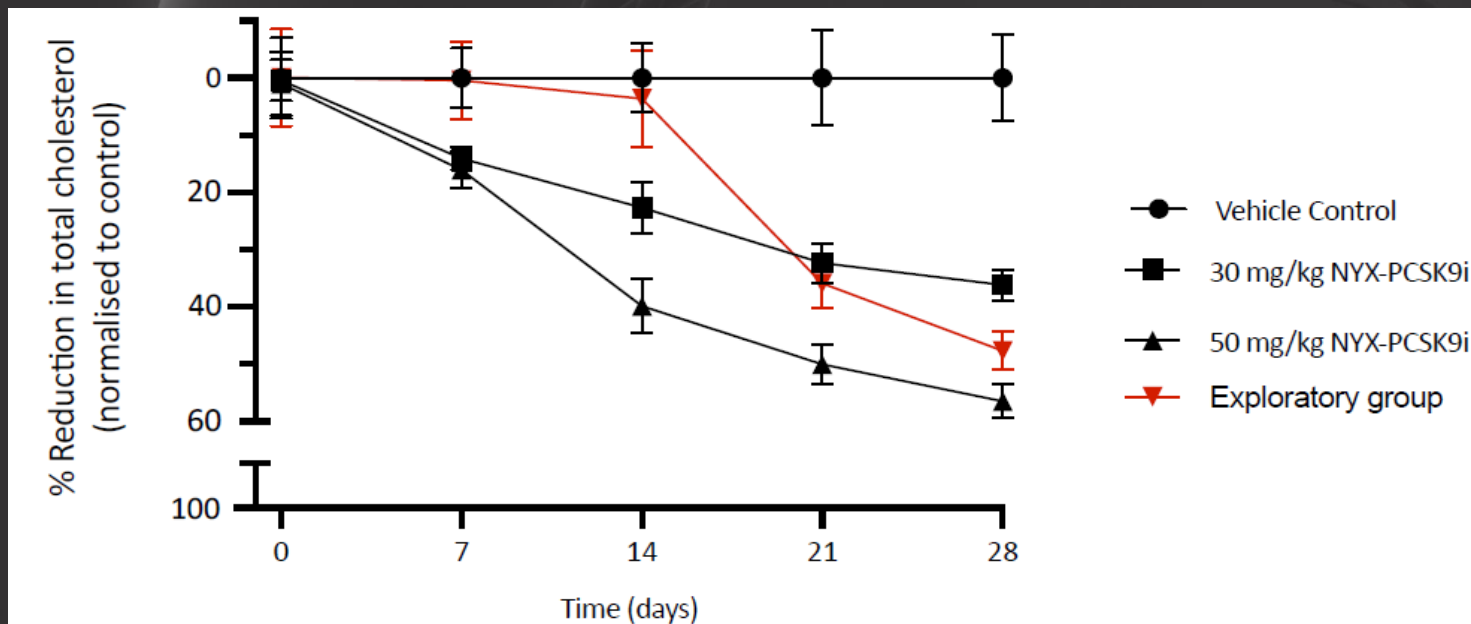
Cost-
effective

Small molecule PCSK9 inhibitor
overcomes longstanding challenge of
oral treatment

Can be combined with statin
to deliver a first ever
single pill PCSK9/statin treatment



Cholesterol Reduction with NYX-PCSK9i



% difference in plasma total cholesterol versus vehicle control (*p*-value)

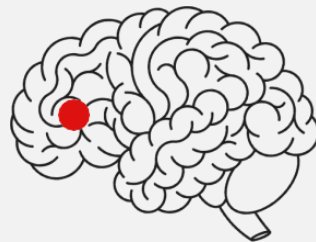
Time (days)	7	14	21	28
30 mg/kg NYX-PCSK9i	-14% (0.05)	-23% (0.015)	-32% (0.002)	-36% (<0.001)
50 mg/kg NYX-PCSK9i	-16% (0.05)	-40% (<0.001)	-50% (<0.001)	-57% (<0.001)
Exploratory 10 mg/kg	0% (0.95)	-4% (0.505)	-	-
Exploratory 75 mg/kg	-	-	-36% (<0.001)	-48% (<0.001)

Brain Injury Problem

- Annually in the US, 2.8 million people sustain a traumatic brain injury (TBI)
- 800,000 suffer a stroke
- 4.1 million TBIs globally in 2020¹

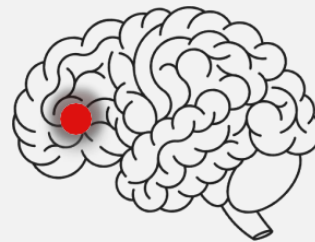
- Neurology / physical rehabilitation are the only existing therapies
- One drug class for stroke
(Suitable for less than 15% of patients)
 - No treatment exists for TBI

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

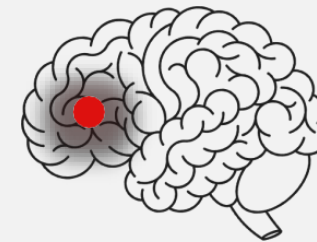


Minutes

Initial injury size



Hours

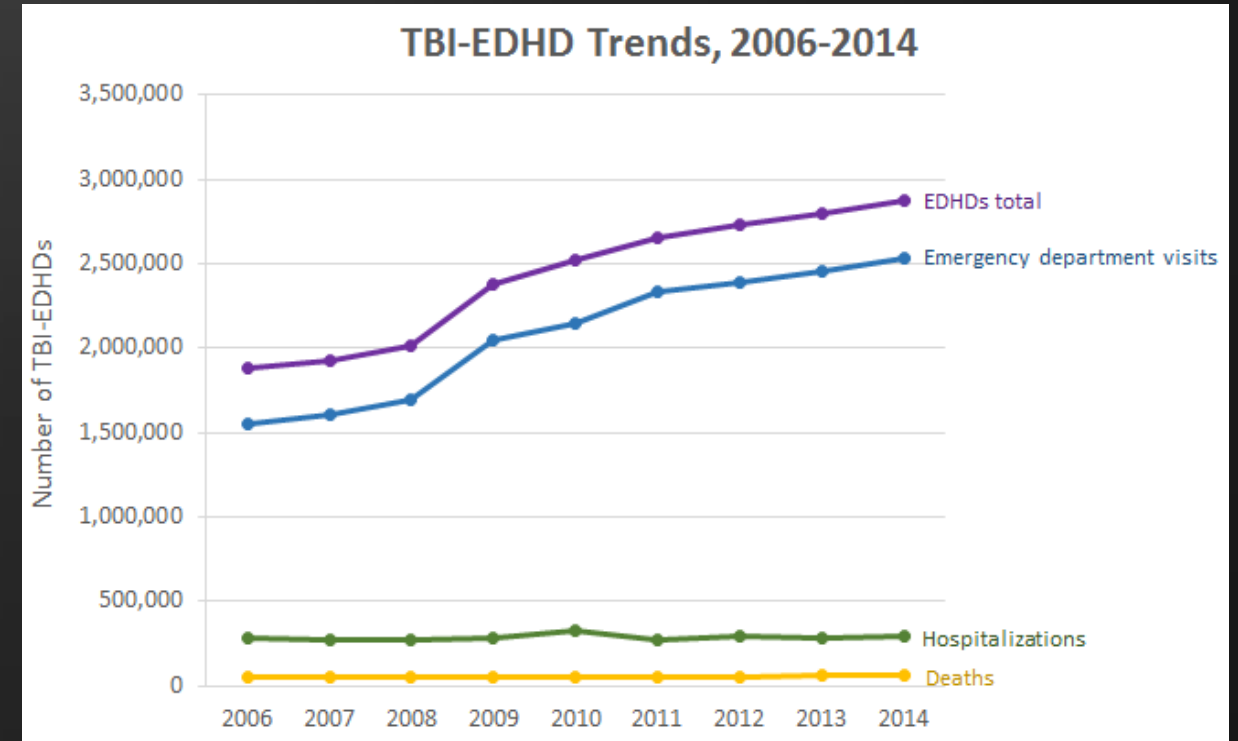


Days

Final injury size

Market Opportunity

- In the US, UK, Europe and Japan alone, the size of the TBI market in 2020 was US\$ 6,739 million¹
- Estimated to grow at a CAGR of 5.54% between 2018–2030¹
- In the US, total TBI related emergency department visits, hospitalisations and deaths (EDHDs) increased by 53% from 2006 to 2014²
- No FDA-approved treatment for TBI is currently available

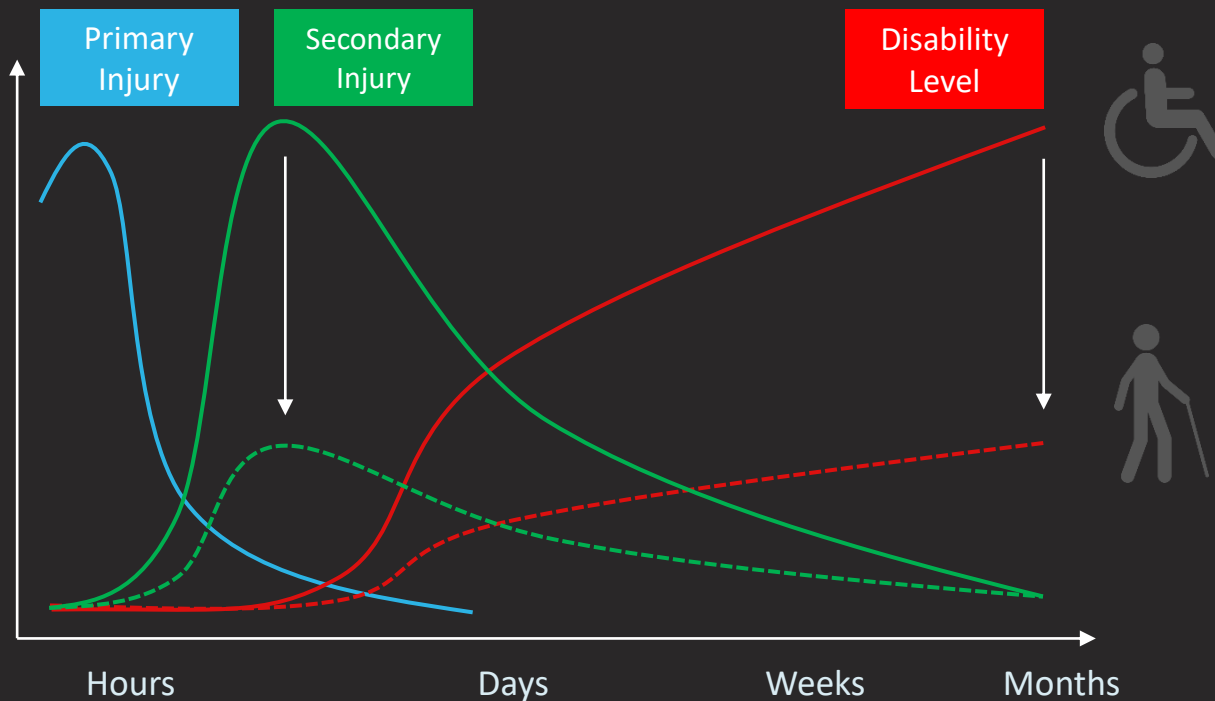


Source: US Centers for Disease Control and Prevention

1. Traumatic Brain Injury, Market Insight, Epidemiology and Market Forecast, DelveInsight, published January 2021
2. US Centers for Disease Control and Prevention: Healthcare Cost and Utilization Project's (HCUP) Nationwide Emergency Department Sample for emergency department visits; HCUP's Nationwide Inpatient Sample for hospitalizations; CDC's National Vital Statistics System for deaths.

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



Walter Reed & UNSW Collaboration

Nyrada
inc

- Collaboration secured with the world-leading scientific teams at Walter Reed Army Institute of Research and UNSW Sydney
- Efficacy and mechanism of action studies to be conducted on Nyrada's preclinical neuroprotection compound
- Aligns with Walter Reed's mission to develop ground-breaking solutions to mitigate the impacts of traumatic brain injury which occurs in 1 in 25 military service members

WRAIR
Walter Reed Army
Institute of Research
Soldier Health • World Health


UNSW
SYDNEY



Signals industry interest in Nyrada's technology

Program Status & Recent Achievements

Proof-of-concept
established





Lead optimisation well
advanced



First-in-human studies
(Phase I)

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



-  Results from an *in vivo* cholesterol efficacy study showed a **57% reduction** in total cholesterol (announced on 21 December 2020)
-  Nyrada NYX-1010 showed excellent potency and blood-brain barrier penetration

Board of Directors



Mr John Moore
Non-Executive
Chairman



Dr Ian Dixon
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 17 March 2021) **\$35M**

Share price
(as at 17 March 2021) **\$0.315**

CDIs free float **77,719,770**

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

Cash at bank (31 Dec 2020) **A\$4.1m**

ASX listing **January 16, 2020**

CY 2021

CY 2022

Cholesterol-lowering program
to enter clinic: ▲

Brain injury program
to enter clinic: ▲



Further preclinical results: **ongoing**

Non-dilutive funding: **ongoing**

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Brain Injury Solution Animation



Cholesterol-Lowering Animation

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ASX: NYR