



‘Meet the CEO, Life Sciences Edition’

James Bonnar, Nyrada CEO

3 March 2022 | Sydney NSW

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

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Company Overview



- Two lead drug development programs with significant therapeutic and commercial potential:
 - **Cholesterol-Lowering Program**
 - **Brain Injury Program**
- Collaborations with world leading institutions, **Walter Reed Army Institute of Research (WRAIR)** and **UNSW Sydney**
- Funding secured to complete Phase I studies
- Commercially focused business model
- Experienced Board of Directors with impressive track record in biotech



Nyrada 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 finding and realising the value of biotech companies

Vision & Strategy



- To improve lives and offer hope through innovation
- Deliver **novel treatments** for diseases where:
 - There is **unmet clinical need**; or
 - Current treatments are **suboptimal**



Our strategy is to advance highly optimised drug candidates towards a **key value inflection point**, such as an efficacy signal, and **out-licence them early**, where the **risk reward** equation is **most favourable** for Nyrada shareholders



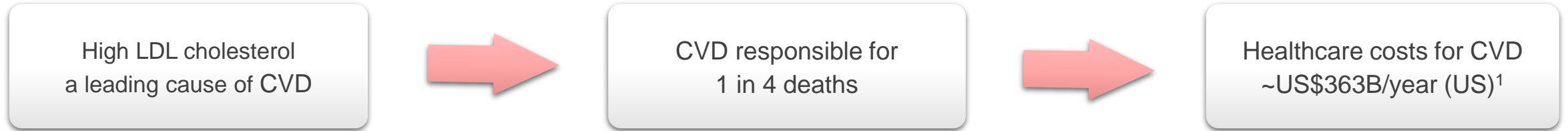
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Cholesterol-Lowering Program

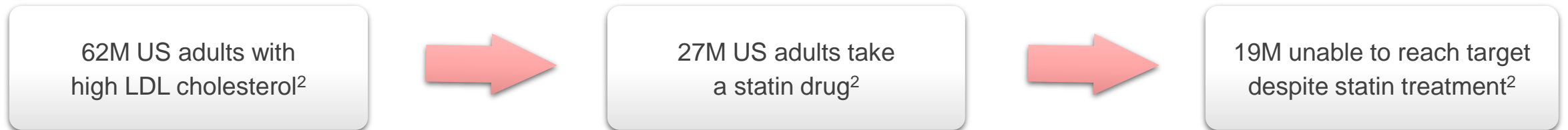
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High LDL Cholesterol and Cardiovascular Disease (CVD)

Problem and key statistics



Statins are **suboptimal** for 70% of patients and often **poorly tolerated**



Statins reduce risk of CVD but ~1 in 5 patients are statin intolerant, a key reason treatment is discontinued³
Intolerance symptoms include muscle pain, liver dysfunction, renal insufficiency, diabetes and eye conditions⁴

¹ Virani SS, Alonso A, Aparicio HJ, Benjamin EJ, Bittencourt MS, Callaway CW, et al. Heart disease and stroke statistics - 2021 update: A report from the American Heart Association, 2021; average annual indirect and direct CVD related costs estimated for 2016-17.

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

³ Management of Statin Intolerance in 2018: Still More Questions Than Answers, Toth PP, Patti AM, Giglio RV, Nikolic D, Castellino G, Rizzo M, Banach M. Am J Cardiovasc Drugs. 2018 Jun;18(3):157-173

⁴ Cai T, Abel L, Langford O, Monaghan G, Aronson J K, Stevens R J et al. Associations between statins and adverse events in primary prevention of cardiovascular disease: systematic review with pairwise, network, and dose-response meta-analyses, BMJ 2021

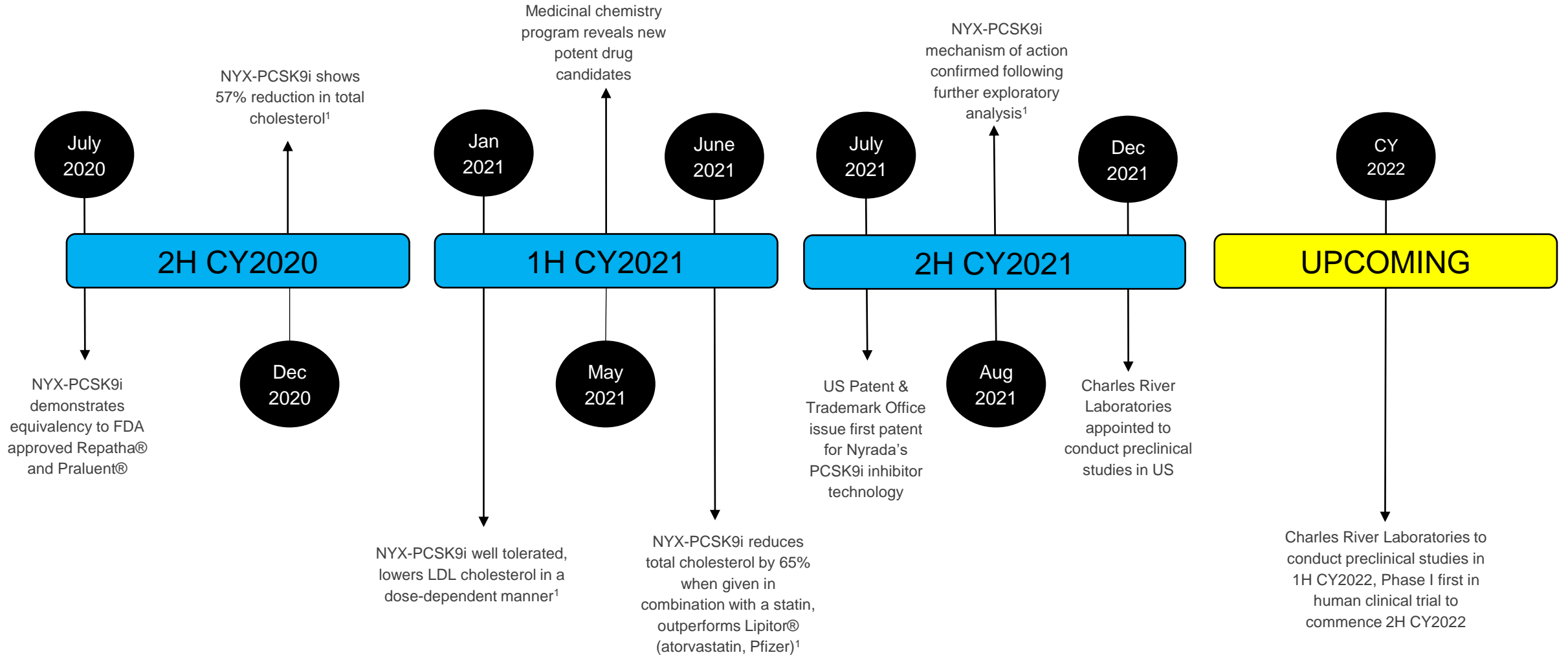
Nyrada's Cholesterol-Lowering Program



- We are developing an **oral PCSK9 inhibitor drug (taken as a pill)** for the treatment of high LDL (bad) cholesterol levels in patients at risk of cardiovascular disease
- Nyrada's drug would replace **expensive and inconvenient** injectable PCSK9 inhibitor drugs and could be taken on its own or in combination with a statin



Program Milestones



¹ *In vivo* study conducted in specialised mouse model (APOE*3-Leiden.CTP) genetically modified to mimic human-like characteristics concerning cholesterol metabolism and cardiovascular health.



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Brain Injury Program

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Global Market with Large Unmet Need - Brain Injury After TBI or Stroke



Nyrada is developing a **neuroprotectant drug to reduce the impact of secondary brain injury** in patients following a stroke or traumatic brain injury (TBI), which can occur following a motor vehicle accident, fall, or sporting injury.

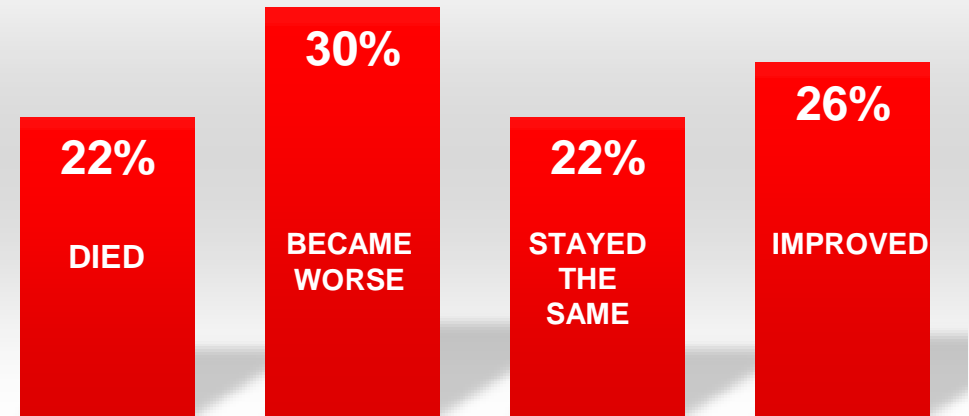
TRAUMATIC BRAIN INJURY is a global problem affecting millions, yet there is no FDA approved drug available and treatment options are limited to neurosurgery and supportive care

- 2.8 million TBIs in US¹
- 4.1 million TBIs in US, UK, Europe and Japan (2020)²
- 5.3 million Americans living with post TBI disability³

STROKE

- 800,000 strokes annually (US)⁴
- One drug class for stroke, suitable to less than 15% of patients

5-Year Outcomes of Persons with TBI⁵



Data are US population estimates based on the TBIMS National Database. Data refer to people 16 years of age and older who received inpatient rehabilitation services for a primary diagnosis of TBI.

¹ Brain Injury Alliance (Connecticut): <http://www.biact.org/understanding-brain-injury/brain-injury-facts-statistics>

² Total TBIs in US, Germany, France, Italy, Spain, UK and Japan, Traumatic Brain Injury, Market Insight, Epidemiology and Market Forecast, DelveInsight, published January 2021

³ US Brain Injury Alliance: <https://usbia.org/>

⁴ US Centers for Disease Control and Prevention: <https://www.cdc.gov/stroke/index.htm>

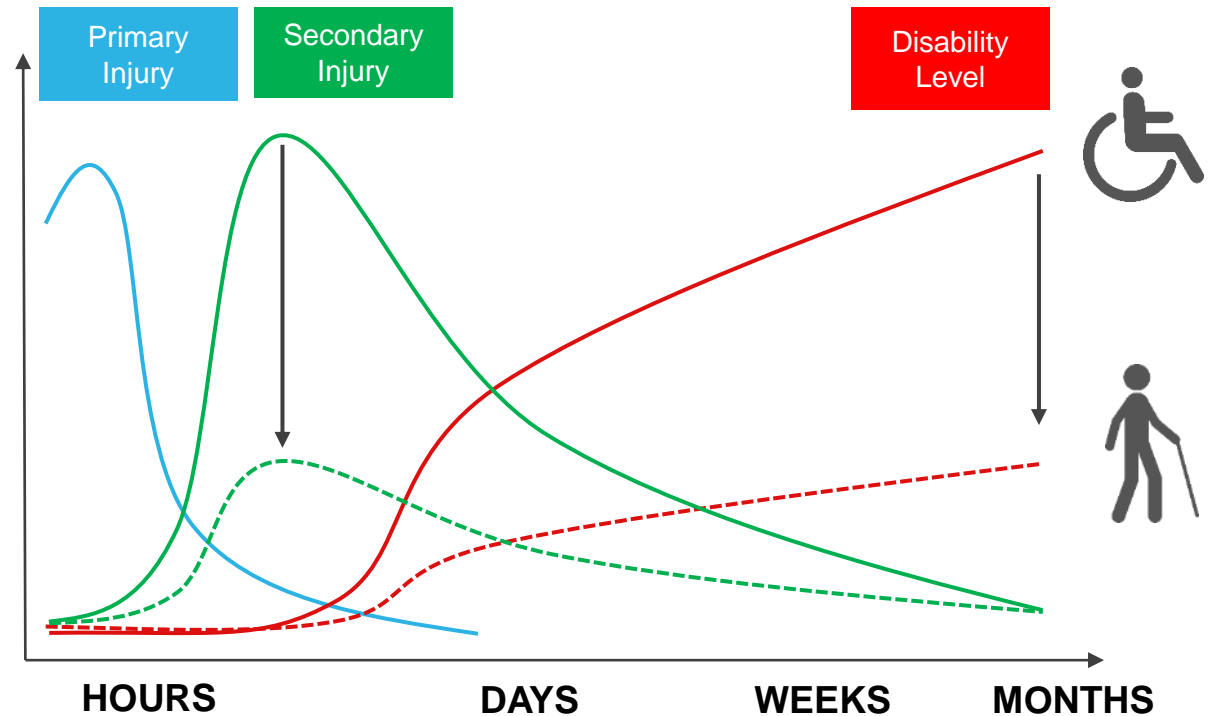
⁵ 'Moderate to Severe Traumatic is a Lifelong Condition', CDC publication available at: https://www.cdc.gov/traumaticbraininjury/pdf/moderate_to_severe_tbi_lifelong-a.pdf

Reducing Secondary Brain Injury After TBI or Stroke

First-ever drug to improve survivability and patient quality of life



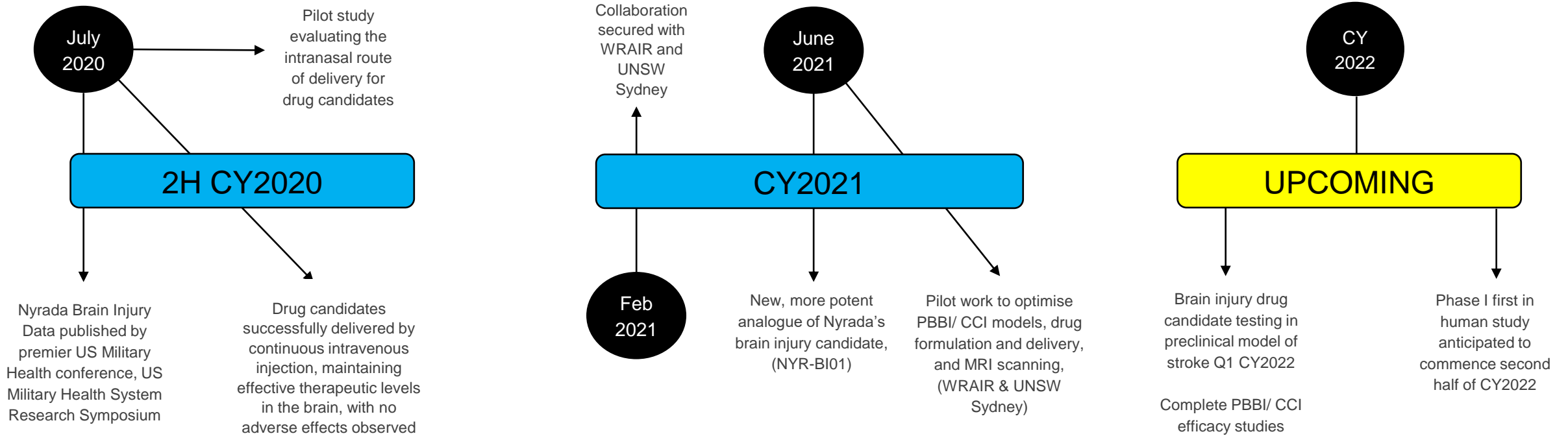
- Treatment for secondary brain injury following TBI or Stroke
- Administered intravenously (TBI and Stroke) or intranasally (Concussion)
 - Prevent cell death
 - Attenuate damaged brain volume
 - Improve survivability, limit disability, improve quality of life
- In the US, UK, Europe and Japan alone, the size of the TBI market in 2020 was US\$6.7 billion and estimated to grow at a CAGR of 5.54% between 2018–2030¹
- Stroke market estimated to surpass US\$3.5B by 2027²



¹ Traumatic Brain Injury, Market Insight, Epidemiology and Market Forecast, DelveInsight, published January 2021

² [Coherent Market Insights press release dated 10 May 2021](#)

Program Milestones





Corporate Update

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FY2021 Financial Performance



Highlights

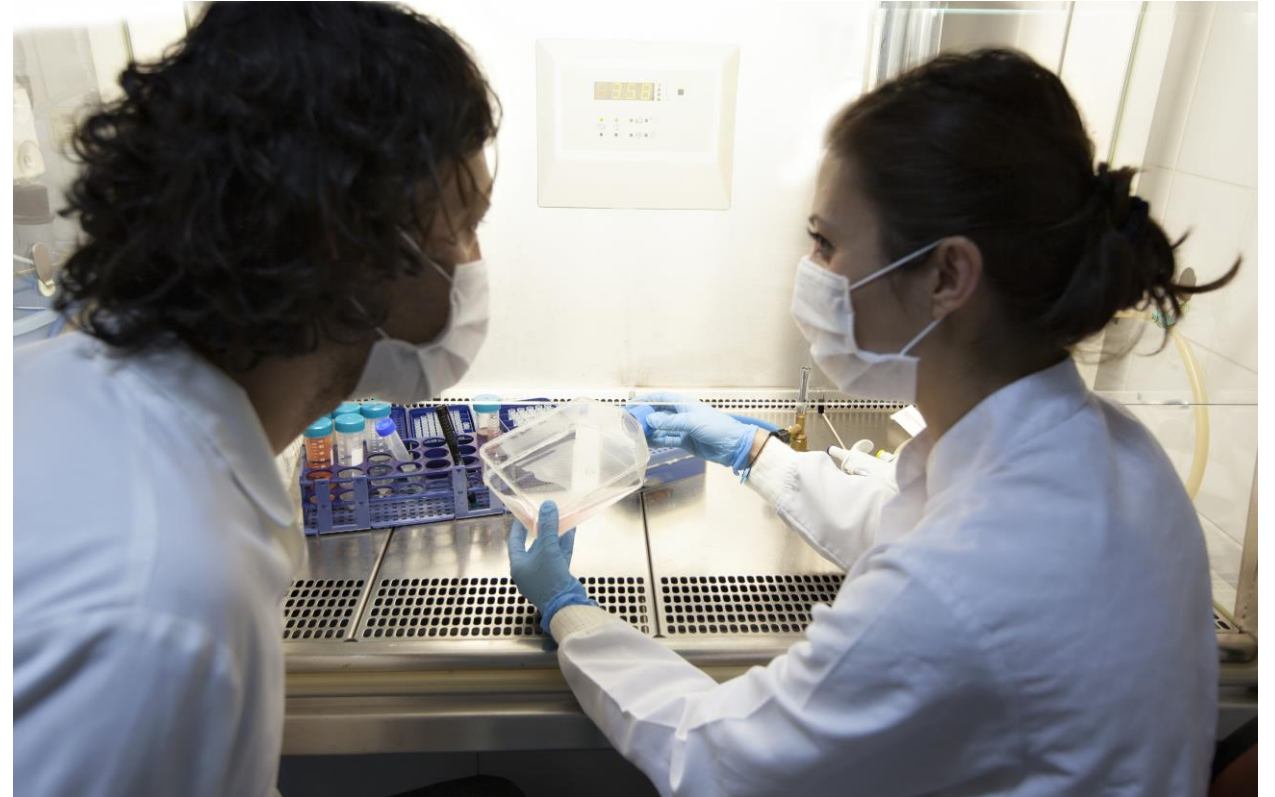
- Nyrada ended FY2021 with cash of \$13.8M
- Cash position as at 31 December 2021 was \$11.1M
- R&D Tax Incentive refund of \$2.3M relating to the accrued FY2021 refund of \$1.3M and received FY2020 refund of \$1.0M
- R&D Tax Incentive refund of \$1.3M received in January 2022, further boosting capital resources
- Capital raise of \$11.5M completed via a two-tranche Placement, with strong demand from new and existing shareholders
- Placement proceeds will be used to fund Phase I clinical trials for both programs, and enable further proof-of-concept studies



Strong Intellectual Property Position



- US Patent granted for Nyrada's PCSK9 inhibitor technology (expiry date 16 March 2038)
- Patent provides composition of matter protection
- Corresponding European patent is in the final stages of examination
- PCT application filed in December 2021 for additional PCSK9 inhibitor compounds
- Provisional patent for Brain Injury Program anticipated to be filed in Q1 CY2022



Key Metrics & Timing of Phase I Studies



Market capitalisation
(as at 1 March 2022) **\$29.6M**

Share price
(as at 1 March 2022) **\$0.19**

CDIs free float **156,008,700**

Cash at bank 31 Dec 2021 **A\$11.1M**

ASX listing **January 16, 2020**

Pathway to Phase I Studies

*Expected to Commence**

Cholesterol-Lowering Program 2H CY2022

Brain Injury Program 2H CY2022

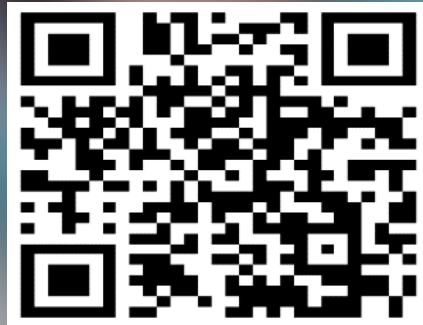


*Following completion of preclinical studies (safety pharmacology and toxicology)



Questions?

Brain Injury Solution
Animation



Cholesterol-Lowering
Animation



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info@nyrada.com

www.nyrada.com



A photograph of a female healthcare professional with curly blonde hair, wearing blue scrubs, smiling warmly at a patient. The patient's face is partially visible in the foreground, slightly out of focus. A semi-transparent dark grey overlay covers the bottom half of the image.

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