



2 April 2020

Sydney, Australia

## Updated Noxopharm Virtual Roadshow Corporate Presentation

**Sydney, 2 April 2020:** Noxopharm (ASX: NOX) is pleased to provide shareholders and the market the attached Noxopharm “Updated Non-Deal Roadshow Corporate Presentation”.

This updated document is being used by Noxopharm for presentations during a non-deal virtual roadshow being held by the company on 2<sup>nd</sup> April 2020.

The presentation can be found at [www.noxopharm.com](http://www.noxopharm.com)

### About Noxopharm

Noxopharm is a clinical-stage Australian drug development company with offices in Sydney and New York. The Company has a primary focus on the development of Veyonda® and is the major shareholder in Nyrada Inc.

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

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*Graham Kelly, CEO and Chairman of Noxopharm has approved the release of this document to the market.*

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April 2020



# Noxopharm Limited

Veyonda<sup>®</sup>

Updated Non-Deal Roadshow Presentation

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**NOXOPHARM**  
ASX: NOX

DISCOVER      DEVELOP      DELIVER

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**Veyonda<sup>®</sup>**

# Introduction

## Technology platform

- ❑ isoflavonoid molecular structure offering new generation of therapeutics built around polypharma actions (tyrosine and serine-threonine kinase inhibition) and restriction to prion-like (abnormal functioning) kinase targets

## Proprietary IP

- ❑ structure/functional relationship; delivery technology

## Veyonda®

- ❑ dual cytotoxic/immuno-oncology drug for late-stage prostate cancer
- ❑ versatility (polypharma action) demonstrated by ability to block cytokine storm/septic shock

## Drug pipeline

- ❑ oral cytotoxic for pancreatic/gall-bladder cancers
- ❑ first-in-class glutamate G-protein receptor inhibitor for GBM

We are a **drug discovery and drug development company**. We will seek strategic partnerships for pipeline drugs when they attain **key valuation points**

# Investment Case

Veyonda® being positioned for the largest sector in the oncology market

- **end-stage cancer where treatment limited to palliative care**
- **little competition**
- **multi-billion \$ market opportunity**

Veyonda® immediate goal is late-stage prostate cancer

- **estimated 300,000 p.a. deaths globally**
- **estimated 33,000 in the U.S. in 2020**
- **U.S. market alone estimated at US\$1 billion +**

Veyonda® considerably de-risked

- **safety confirmed**
- **evidence of meaningful clinical efficacy in Phase I/II trials**
- **multiple programs (DARRT, LuPIN, CEP, IONIC)**

Commercial outreach commenced

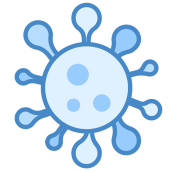
- **GenesisCare relationship**
- **territorial carve-outs being explored**

Lean operation. Virtual company

*\* American Cancer Society Cancer Statistics Centre 2020*



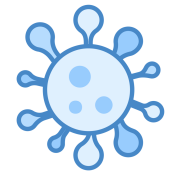
# COVID-19 Program



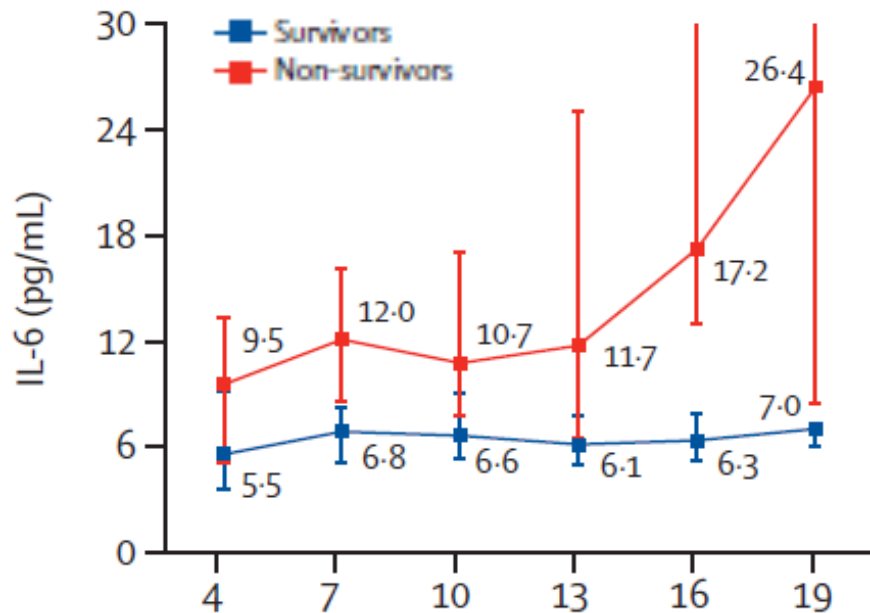
- Death due primarily to multi-organ failure associated with abnormally excessive immune and inflammatory responses
- Particularly lung failure from acute respiratory distress syndrome (ARDS)
- Organ failure caused by excessive production of inflammatory proteins known as cytokines
- *Cytokine storm* in COVID-19 patients similar to septic shock in overwhelming infections with bacteria and other viruses including other coronaviruses (SARS, MERS)
- Multiple cytokines involved, notably IL-6 and TNF $\alpha$
- Various companies intending to conduct clinical trials in China, US, Europe designed to block action of cytokines
- Objectives:
  - To reduce excessive inflammatory response
  - To reduce need for ventilation support
  - To reduce ICU admittance
  - To avoid sepsis, ARDS and multi-organ failure



# COVID-19: rationale for cytokine inhibitors such as IL-6 Inhibitors



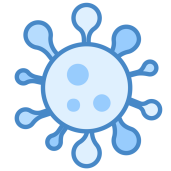
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Patients with high level of IL-6 are less likely to survive SARS-COV2 (COVID-19) virus infection

Zhou et al. 11 March 2020. Clinical course and risk factors for mortality of adult in patients with COVID-19 in Wuhan, China: a retrospective cohort study. The lancet [https://doi.org/10.1016/S0140-6736\(20\)30566-3](https://doi.org/10.1016/S0140-6736(20)30566-3)

# COVID-19



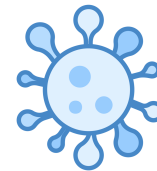
## Hudson Institute of Medical Research (HIMR)

- 18-month collaboration with NOX to determine range of immuno-oncology functions of idronoxil
- IL-6 inhibition known and thought to contribute to anti-cancer function
- HIMR discovers idronoxil has broader effects than on IL-6 with potent inhibition of multiple cytokines
- Potential therapeutic use in cytokine storm in septic shock including COVID-19

## Potential advantages of idronoxil in COVID-19 in particular and septic shock generally

- Range of cytokines inhibited closely matches those involved in *cytokine storm*
- Most other drugs being tested are antibodies directed at single cytokines
- Idronoxil blocks production of cytokines, not just seeks to inhibit their action
- Idronoxil proven to be well-tolerated in over 800 cancer patients to date

# COVID-19 Next Steps



## Funding

- Company to seek non-dilutive funding. Overseas governments funding a number of trials
- Funding would allow assembly of dedicated COVID-19 team under Dr Mautner and production of sufficient quantities of drug for some thousands of patients

## Clinical study

- Oral dosage formulation (NOX-19) proposed to be used
- Patients with early-stage symptoms of ARDS and evidence of *cytokine storm*
- Study likely to be conducted in the U.S. and/or Europe. (NB. Veyonda has IND in the U.S.)
- To be determined if formal study or compassionate use

# Clinical Strategy for Prostate Cancer



## ➤ Main objective:

To provide a clinical data package that is attractive for future commercial partners

## ➤ Implementation Steps:

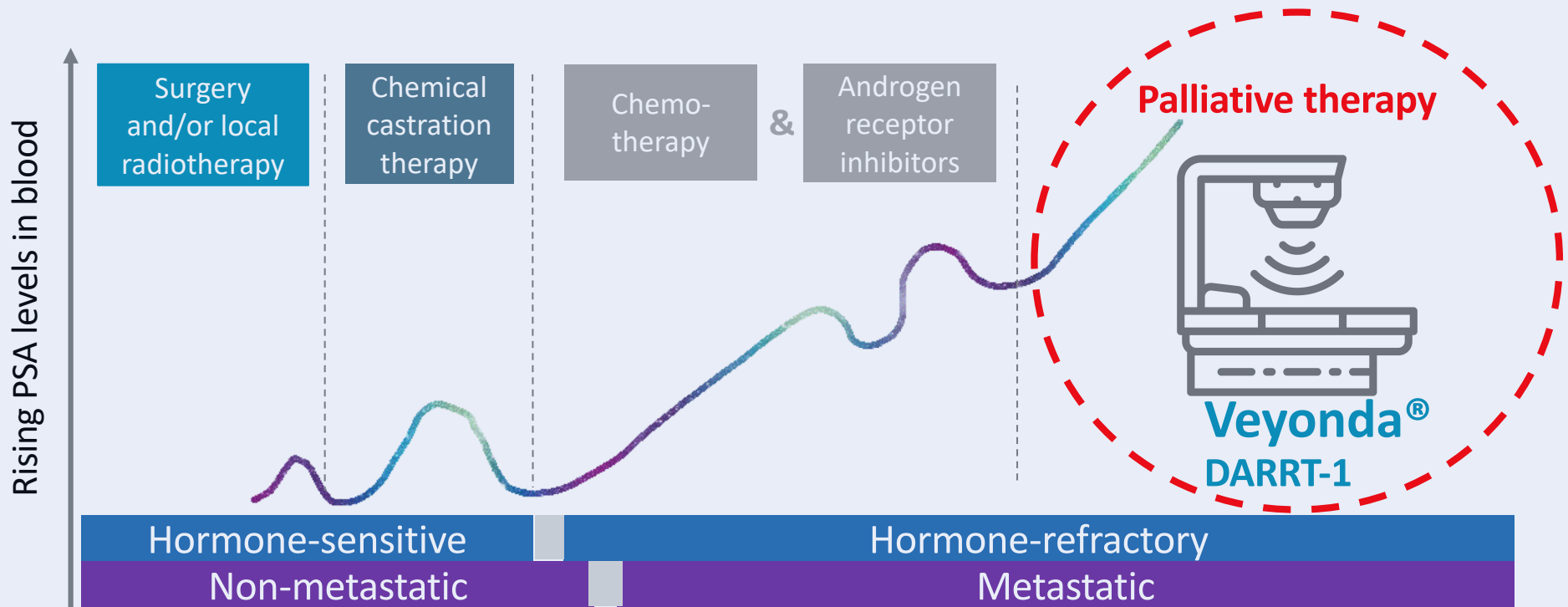
- First Prostate Cancer clinical trial (DARRT-1) has finished and was successful
- Second Prostate Cancer clinical trial (LuPIN-1) is ongoing and showing encouraging interim results
- Next clinical trial (DARRT-2) will build on these results and will include more patients
- News flow and a growing data portfolio will be ensured

# Which Market Segment does Veyonda occupy?



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## Course of Disease and Treatment Journey for Stage I - IV Prostate Cancer

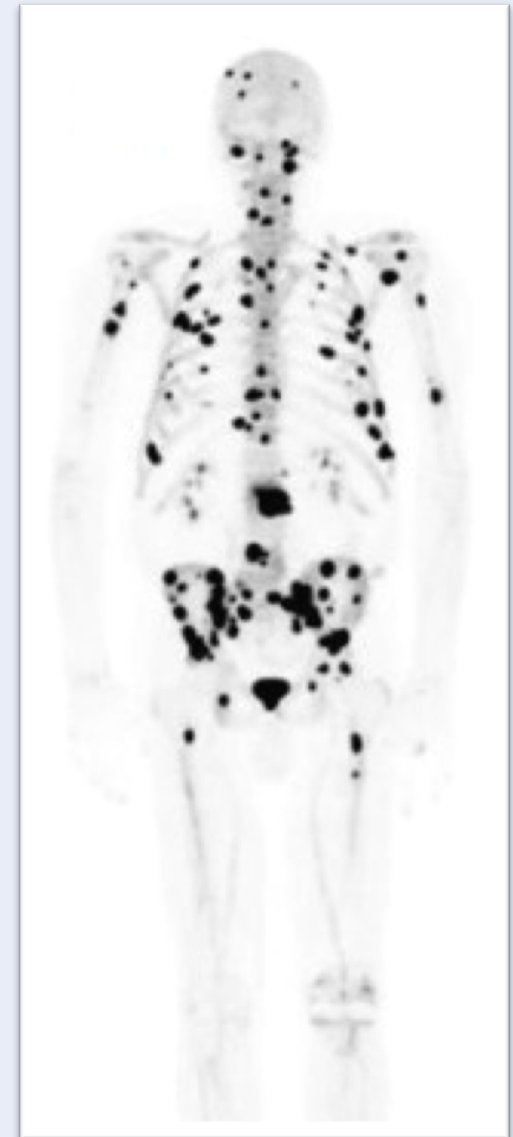


# Veyonda<sup>®</sup> – What does the Clinical Data show?



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- 26 men enrolled with late-stage **prostate cancer**
- Metastatic castration-resistant prostate cancer (mCRPC)
- Progressive disease
- No remaining standard treatment options
- Eligible for palliative RT for symptomatic relief
  
- Treatment with low-dose RT (20Gy in 5 fractions) and 14 days of NOX66 (400, 800, 1200 mg)



Bone scan with metastatic disease

DARRT = Direct and Abscopal Response to Radiation Therapy; RT = Radiation Therapy



# DARRT-1: Does Veyonda work?

- In the 15\* patients who were evaluable at 6 months<sup>1</sup>

**The Tumours stopped growing or reduced in size in 10 patients**

(1 patient achieved a partial response and 9 achieved stable disease at 6 months)

| 6-months follow up  | First part<br>400mg, 800mg &<br>1200mg<br>(Reported on 12<br>November 2019) | Expansion part<br>1200mg | Overall<br>All doses<br>(Reported on 2<br>December 2019) |
|---------------------|---|--------------------------|--|
| Overall (RECIST1.1) | N=10  | N=5                      | N=15   |
| Complete response   | 0   | 0                        | 0  |
| Partial response    | 1<br>(10%)  | 0                        | 1<br>(7%)  |
| Stable disease      | 7<br>(70%)  | 2<br>(40%)               | 9<br>(60%)   |
| Progressive disease | 2<br>(20%)  | 3<br>(60%)               | 5<br>(33%)   |

\* 10 patients lost to follow-up, were not measurable, withdrew from study or died (unrelated to treatment)

1. Noxopharm. Data on file.



# What is the Aim of the next Trial?



## ➤ Objectives:

- The DARRT-2 trial is designed to provide the data that Commercial Partners are looking for
- It also aims to satisfy the Regulatory Authorities
- Building on the experience and data of DARRT-1
- Phase 2 trial; multinational
- Medical Advisory Boards established
- Anticipated regulatory submissions late-2020
- Study expected to commence in early-2021

✓ **We are developing the most efficient and impactful study possible**

# Additional Opportunity in Prostate Cancer



## External Radiation

- Standard-of-Care
- Widely used



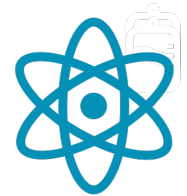
DARRT 

## Internal Radiation

- Experimental
- Billion-dollar Acquisition by Novartis



LuPIN 



# LuPIN Trial: Key Interim Results

## ❖ Veyonda<sup>®</sup> + <sup>177</sup>Lu-PSMA-617

- Overall Survival (OS) is a measure of the time from the start of treatment until death.



- ✓ Median OS was **17.1 months** – a remarkable result at this late stage of the disease
- ✓ The combination therapy was well tolerated, pointing to Veyonda<sup>®</sup> being safe to use in combination with intravenous radiotherapy

*In summary, combination therapy of Veyonda<sup>®</sup> and <sup>177</sup>Lu-PSMA-617 showed major benefits to patients and underscores the Company's confidence in Veyonda<sup>®</sup> eventually becoming a standard drug in the management of prostate cancer*

# Commercial Strategy

## Noxopharm commercial priorities

1. Attract potential partners by continuing to undertake clinical trials to develop Veyonda<sup>®</sup> as standard of care in treatment of prostate cancer



DARRT-2 Phase 2 clinical trial planning underway

2. Develop alliances to strengthen the commerciality of Veyonda<sup>®</sup>



GenesisCare use of Veyonda<sup>®</sup> for compassionate treatment

3. Investigate commercial agreements to build revenue prior to commercialisation of Veyonda<sup>®</sup>



Pursuing regional licencing agreements for Veyonda<sup>®</sup>

4. Leverage the IP and clinical expertise of Noxopharm in urgent situations



COVID-19 treatment research

# Market Opportunity

## Prostate cancer market opportunity

- 33,330 prostate cancer deaths are forecast in the US in 2020\*
- Potentially all of these patients could benefit from treatment with Veyonda®
- The potential global demand of late stage cancer patients for multiple cycles of Veyonda® indicates potential for multi-million dollar revenue from Veyonda®
  - positioning Veyonda® for acquisition by big pharmaceutical companies

## Recent acquisitions in the prostate cancer space

| Recent acquisitions                                    | Buyer   | Seller   | Price range     |
|--|---|--|-----------------|
| XTANDI®<br>mCRPC<br>(2016)                             |   |   | US\$14 billion  |
| <sup>177</sup> Lu-PSMA-617<br>mCRPC<br>(2018)          |  |  | US\$2.1 billion |
| <sup>177</sup> Lu-PSMA-617 & others<br>mCRPC<br>(2018) |  |  | US\$3.9 billion |



\* American Cancer Society Cancer Statistics Centre 2020



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