PharmAust LIMITED

AGM Presentation 25 October 2019

ASX: PAA

ACN 094 006 023

Corporate Structure

PharmAust LIMITED

100%

epichem

Epichem Synthetic Medicinal Chemistry
Expected 2019-2020 sales A$ 4.2m+

100%

PPL

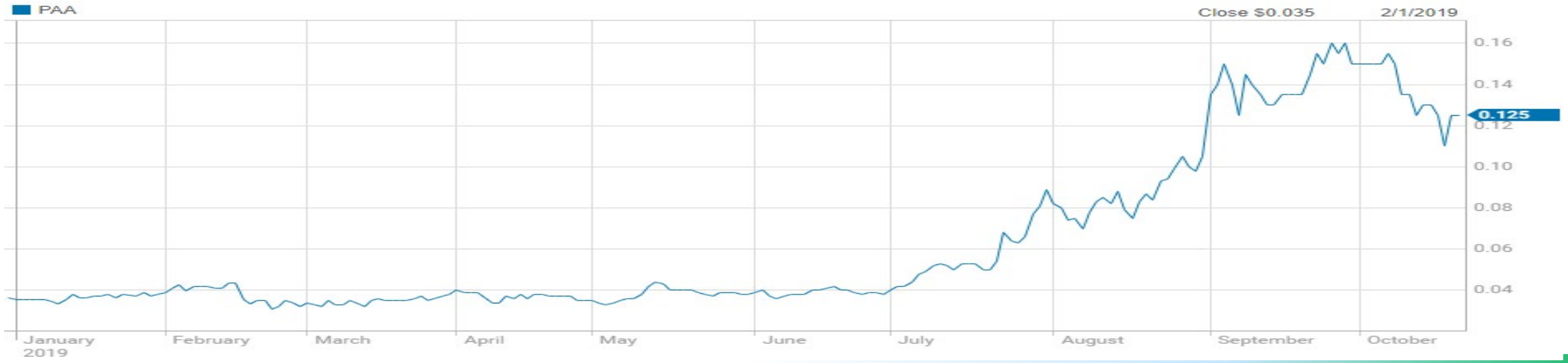
Pitney Pharmaceuticals Limited

Pitney Pharmaceuticals Focus on Developing and repurposing a registered drug (Monepantel) in oncology

Corporate Snapshot

ASX Code:	PAA
Market Cap at $0.125	$35M
Cash (as at 30 June 2019)	$2.1M
Debt (EFIC)	$325K
Epichem Revenue Forecast 2019-2020	$4.2M

Total Shares on Issue	301,814,647
Options (Unlisted)	56,801,956
Top 20 Own	35%
Board/Exec Own	9.3%



Experienced Board & Management Team

Dr. Roger Aston, Executive Chairman

- > 30 years experience in the pharmaceutical and healthcare industries.
- Director or chairman on a number of boards carrying out late stage drug development.

Robert Bishop, Executive Director

- > 30 years experience in corporate finance and equity capital markets
- Lawyer and an investment banker.

Neville Bassett, Non-Executive Director

- Member of the Order of Australia (AM)
- > 35 years working in accounting, finance and stockbroking

Sam Wright, Director & Company Secretary

- > 20 years experience in biotech and healthcare.
- Extensive experience in relation to public company responsibilities, including ASX and ASIC compliance, corporate governance, statutory financial reporting, and shareholder relations.

Dr Richard Mollard, Chief Scientific Officer

- > 20 years experience in biotech and pharma
- Extensive national and international experience.

Colin La Galia, Epichem CEO

- Highly experienced executive in pharmaceuticals, devices and diagnostics, both locally and internationally, and has demonstrated great success in international business development

PharmAust Background

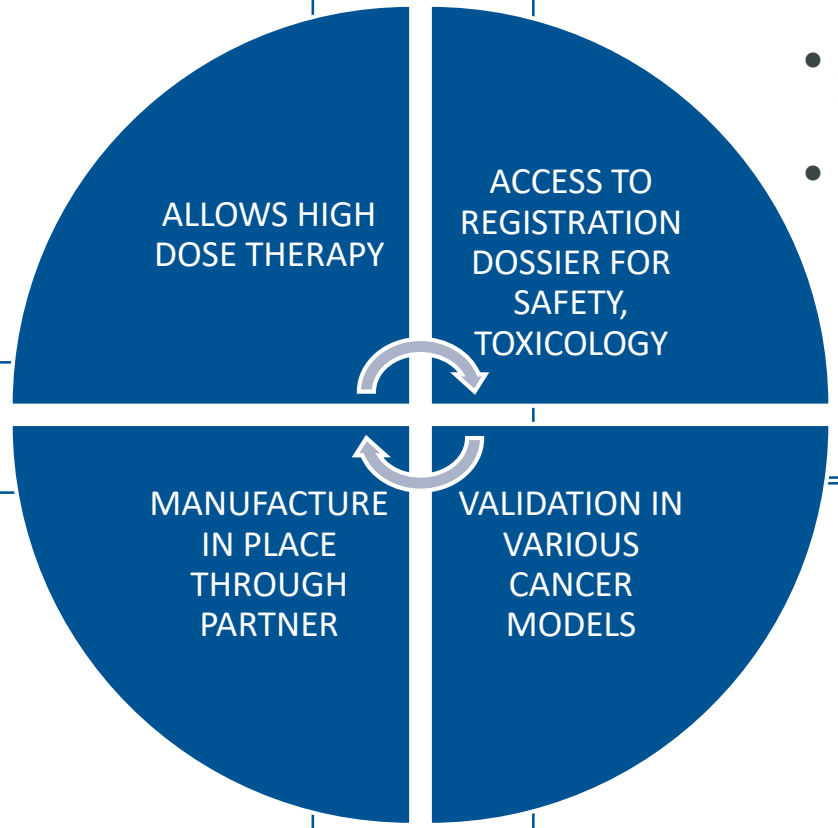
- Lead product is **Monepantel** (MPL) – a repurposed drug already approved for Veterinary use by Elanco Animal Health (US $10.7b)
- PharmAust **patented MPL** as an **anti-cancer drug**
- **Clinical strategy** targeting **MPL** for **vet and human** applications
- **Option Agreement** with **Elanco US Inc** for veterinary cancer applications
- **Epichem**: profitable business, forecast revenues of $4.2m in FY2019/20

Chemotherapy (Global Sales $52B)
Mainstay Of Cancer Treatment

- Chemotherapy kills rapidly dividing cells
- Typically tumour cells replicate more quickly than normal cells and this difference is harnessed in chemotherapy to selectively kill cancer
- Side Effects during chemotherapy arise because normal cells also need to divide and they become casualties (immune system, digestive system and hair follicle)
- **Monepantel**, being an mTOR inhibitor acts differently and demonstrates minimal toxicology

Monepantel (MPL) In Oncology
A Unique Anti-Cancer Paradigm

- **VERY LOW TOXICITY ON NORMAL CELLS**
- mTOR REGULATOR



- ALREADY REGISTERED AS A VETERINARY MEDICINE
- **SIMPLER PATH TO REGISTRATION**

- AVAILABILITY OF GMP QUALITY DRUG
- **ELANCO PROVIDES DRUG**

- EXTENSIVE EVALUATIONS IN MICE, CANINES AND MAN
- **PROGRESSION FREE SURVIVAL**

Elanco Animal Health – Option Agreement

- Elanco Animal Health (NYSE:ELAN) – **MC=$10.7B US**

- **Monepantel** compound is owned by **Elanco**, approved for the treatment of parasitic infections in sheep (patent protection to 2024)

- **Option Agreement** with Elanco to exclusive, worldwide **royalty bearing** license to commercialise MPL for treatment of **Cancer in Animals**

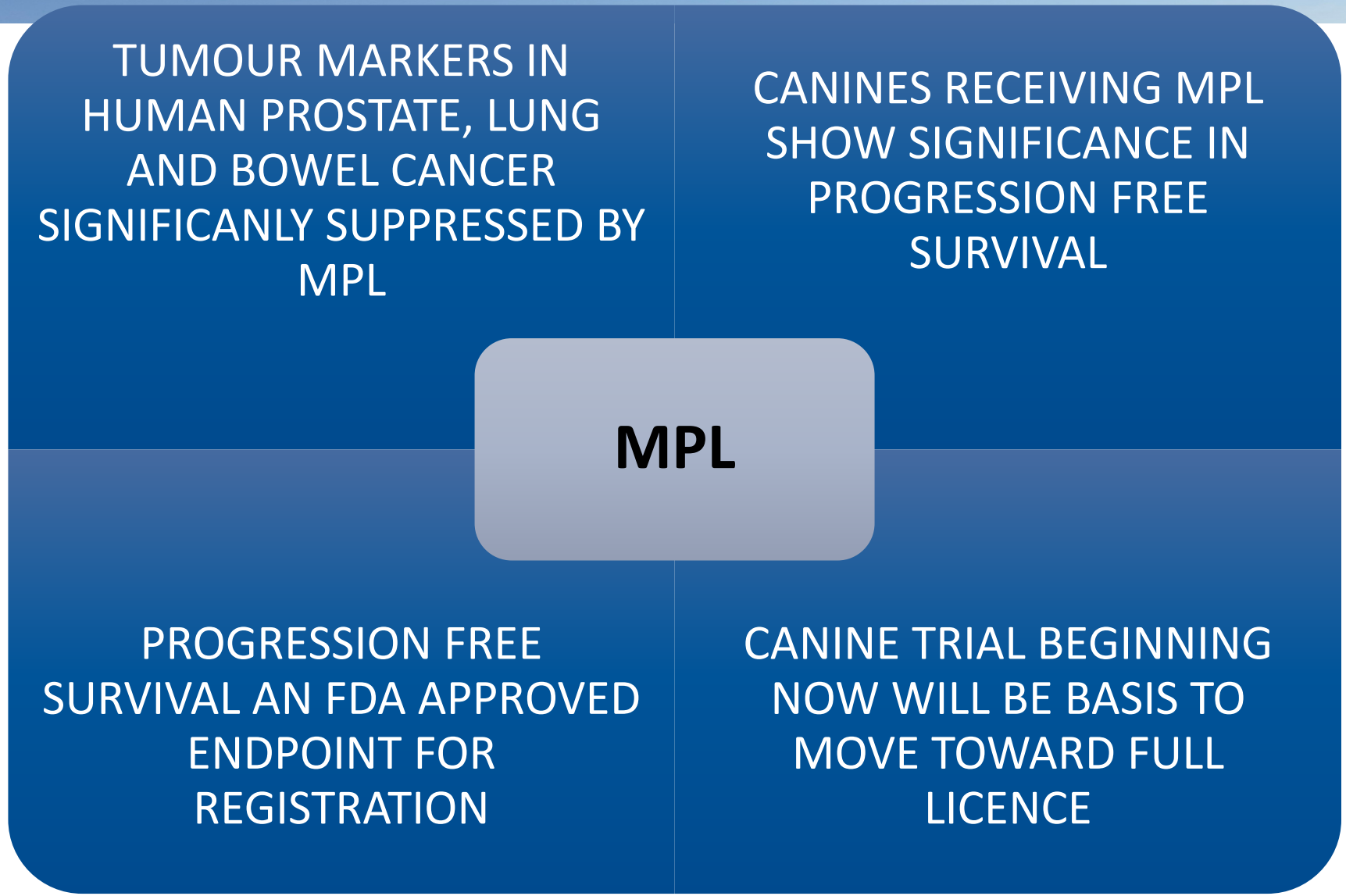
- **Commercial Outcome** would allow PharmAust to focus on **Human Cancer** market

Elanco To Become No.2 In Animal Medicines

Elanco strategically enters therapeutic oncology arena by the purchase of Aratana Therapeutics

Elanco agree on $7.6billion acquisition of Bayer's veterinary drugs unit

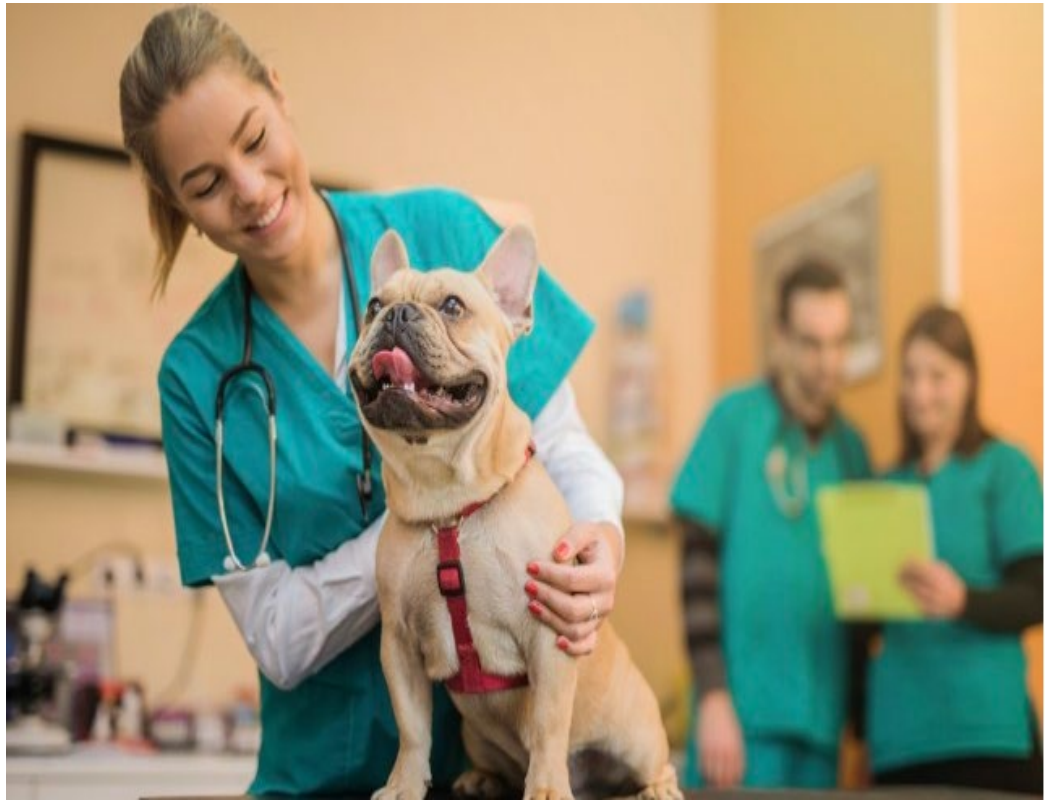
RISK MITIGATION IN NEXT STAGE DEVELOPMENT



Pivotal Phase II Trial in Canine Cancer During 2019

KEY CLINICAL ENDPOINTS

1. Safety
2. Lack of Toxicity
3. Progression Free Survival
4. Regression
5. Administration by Owner at Home
6. Suppression of Tumour Markers



Clinical Outcomes To Commercial Opportunities

Human Phase I Trial (efficacy / poor taste)

Pilot phase II (2017) in lymphoma trial in dogs
Shows MPL effective at Progression-Free Survival
Using poor formulation

mTOR pathway (p-p70S6K)

Extensive Reformulation Program: 2018 - 2019
Establishes New, High Dose, Palatable Tablet

Extensive Phase I Program During 2019 Establishes Optimum Dosing for Canine Trials

PIVOTAL PHASE II TRIAL 2019

COMMERCIAL AND CLINICAL OUTCOMES

Elanco

ACCELERATED HUMAN DEVELOPMENT PROGRAM

>$2 Billion market for approved mTOR Drugs

Drug	Approved Indications	Company	2016 Sales (US$m)[1]
Sirolimus	Transplantation	Pfizer	170
Rapalogues (Afinitor/Torisel)	Transplantation Renal Cell Carcinoma Breast Cancer Pancreatic Neuroendocrine Tumours Mantle Cell Lymphoma	Novartis/Pfizer	>2,000

1. Global Data

Initial Market -Pets and Cancer

- 1 in 4 dogs die of cancer - 6 million diagnosed annually in US
- Pets are living longer (50% dogs > 10 yrs often die of cancer)
- Significant **unmet need** for **new** **oncology drugs (US$500m - USD$1b market)**
- **Side effects** associated with products and treatments are **limiting market growth** (**Monepantel** comparatively has **little or no side effects**)
- Vet **therapeutic market** dominated by **repurposed drugs** already approved for use in humans and/or animals (**= monepantel**)
- Pet Insurance now commonplace
- Canines are a close reflection of human outcomes with MPL

PharmAust – current status and next steps

- Successful $2.0m Rights Issue to existing shareholders completed in April 2019
- Oversubscribed placement primarily to Australian and Singaporean fund management institutions raises $2.4m in October 2019
- Sufficient funds to complete Phase II in dogs as well as progression of the human trial, including further development of formulation & manufacture of additional tablets
- Successful micronisation and GMP tablet manufacture for dog trial
- Phase II trial on dogs with lymphoma – commenced Sep 2019 at the University of Melbourne's U-Vet Werribee Animal Hospital
- Open label trial – interim dossier to be prepared for Elanco Dec 2019
- Elanco Option Agreement covers veterinary uses only
- Canine success would open door to Human use - a much larger market
- Epichem – new CEO and state of the art laboratories a key to further growth and profitability


"PharmAust is harnessing drugs targeting novel mechanisms to control cancer"

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