

ASX: PAA

ACN 094 006 023



PharmAust
L I M I T E D

Investor Roadshow Presentation September 2019

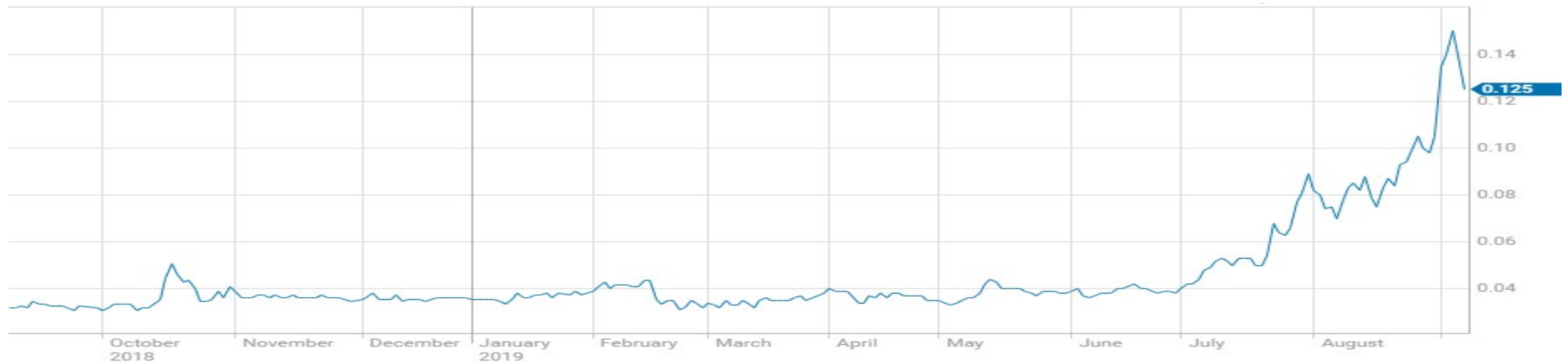
Corporate Structure



Corporate Snapshot

| | |
|------------------------------------|------------|
| ASX Code: | PAA |
| Market Cap at \$0.12 | \$33.6M |
| Cash (as at 30 June 2019) | \$2.1M |
| Debt (EFIC) | \$325K |
| Epichem Revenue Forecast 2019-2020 | \$4.2M |

| | |
|------------------------------|--------------------|
| Total Shares on Issue | 280,221,192 |
| Options (Unlisted) | 56,895,412 |
| Top 20 Own | 37% |
| 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.

Dr Wayne Best, Epichem Chairman

- > 30 years experience in synthetic and medicinal chemistry in academia and industry
- Chairman of PharmAust's subsidiary Epichem

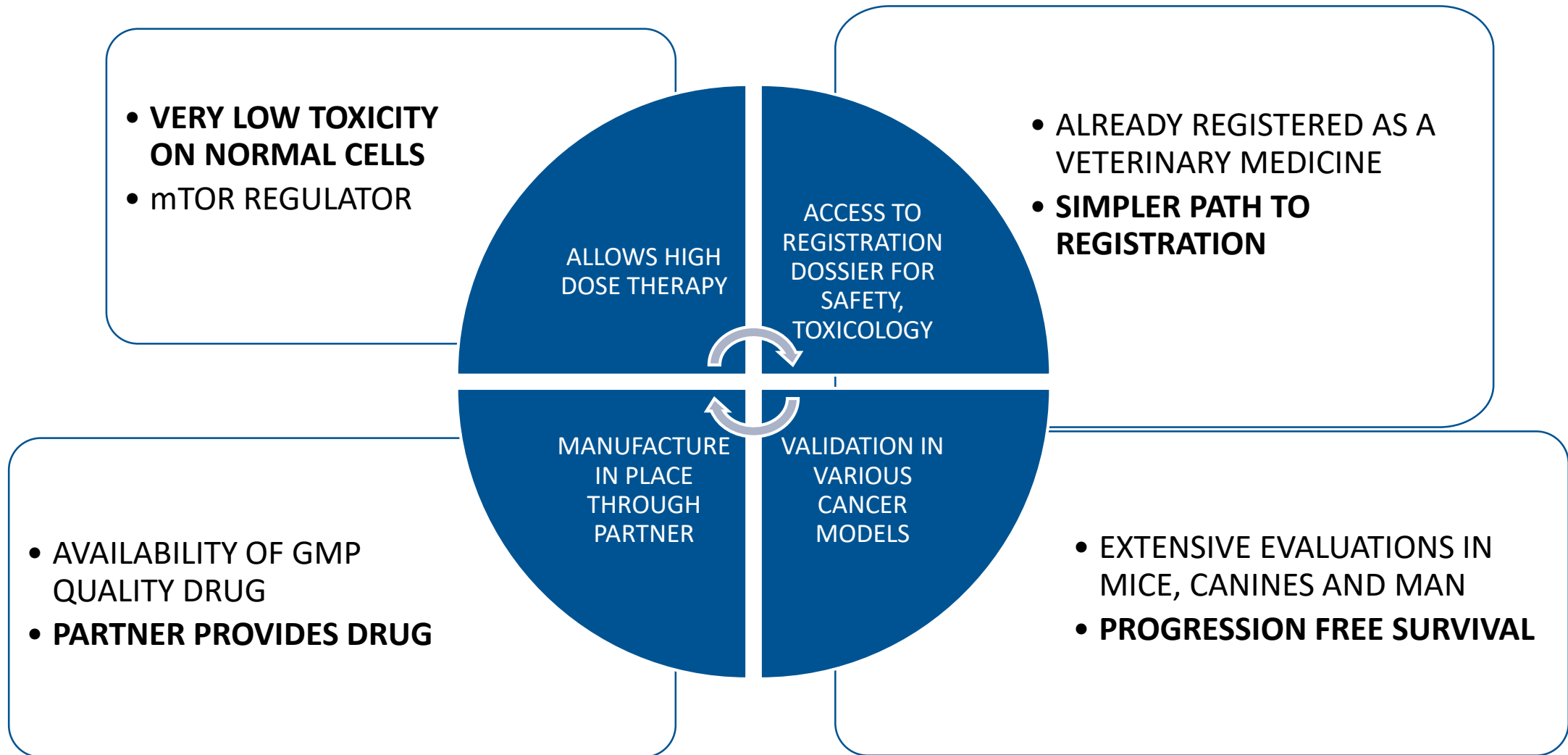
CHEMOTHERAPY (Global Sales \$52bln)

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 ANTICANCER PARADIGM

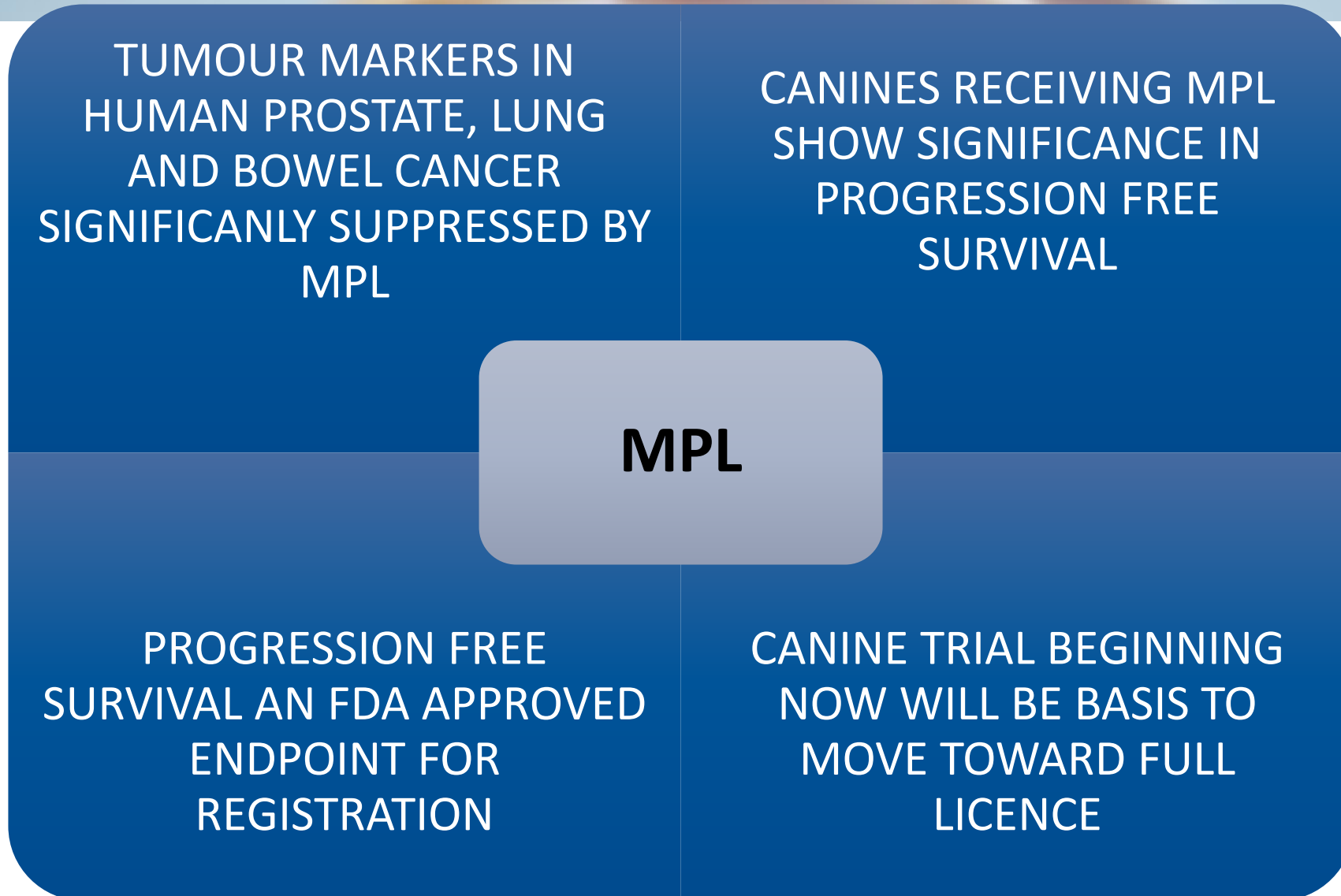


COMPARATIVES MPL AND CHEMOTHERAPY

**THE SINGLE MOST IMPORTANT LIMITATION OF CHEMOTHERAPY
IS DOSE LIMITING TOXICITY**

| ACTIVITY | MPL | CHEMOTHERAPY |
|---------------------------|------|--------------|
| PROGRESSION FREE SURVIVAL | ++++ | ++ |
| IMMUNOSUPPRESSION | + | ++++ |
| HIGH DOSE TOXICITY | + | +++++ |
| RESISTANCE | ? | ++++ |
| REGRESSION | ++ | +++++ |

RISK MITIGATION IN NEXT STAGE DEVELOPMENT



Background Summary

- Lead product is **Monepantel** (MPL) – a repurposed drug already approved for Veterinary use by Elanco US Inc
- 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

Preparing for 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

Fast Track Strategy



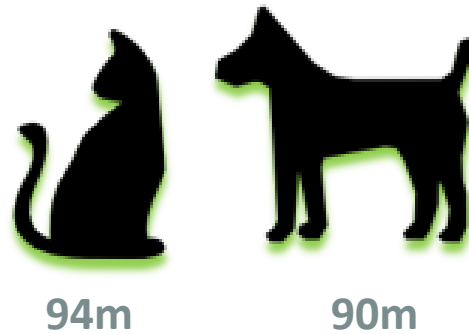
>\$2 Billion market for approved mTOR Drugs

| 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

Trends in Companion Animal Health Market (US:2016)

US Dog/Cat Populations (2016)¹



\$ Total Pet Expenditure: \$70b¹

+ Vet Care Expenditure \$17b¹

💊 Pet drug market \$10.2b in 2018²
(8% CAGR)

💊 Willingness to pay more for treatment³
(\$2K-\$5K/treatment)

1. http://www.americanpetproducts.org/press_industrytrends.asp

2. Competition in the Pet Medications Industry (2015)

3. AP-Petside.com Poll, conducted by GfK Roper Public Affairs and Media: April 7-12, 2010

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





Elanco strategically enters therapeutic oncology arena by the purchase of Aratana
Elanco Global No. 3 Animal Health Company



Product Areas of Focus



Elanco is an established leader with flagship brands and a global presence. They're focused on investing and innovating in the animal health priorities that mean the most to their customers and the animals in their care.

COMPANION ANIMAL



**Companion
Animal Disease
Prevention**

**Companion Animal
Therapeutics**

FOOD ANIMAL



**Food Animal
Future Protein
& Health**

**Ruminants
& Swine**

PharmAust – current status and next steps

- Successful rights issue completed earlier in year
- Sufficient funds to complete Phase II in dogs as well as initiate clinical trials in humans
- Successful micronisation and tablet manufacture
- Phase II canine trial on dogs with lymphoma – commenced Sep 2019
- Open label trial – interim dossier to be presented to Elanco Nov/Dec 2019
- Elanco Option Agreement covers veterinary uses only
- Canine success would open door to Human use - a much larger market
- Epichem – 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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