

ANNUAL GENERAL MEETING

NOV 10TH 2022

ASX: PAA

ACN 094 006 023







AGENDA

INTRODUCTION

MONEPANTEL

EPICHEM

SUMMARY







PET DOG PHASE 2 TRIAL: TREATMENT NAÏVE B CELL LYMPHOMA

CURRENT STATUS OF ENTIRE STUDY ENROLLED DOGS

(DAY 28 EVALUATION)

| Study metric | # Dogs | Definition of data |
|---|--------|--|
| # Dogs fully completed study | 16 | Fully completed - All study assessments complete, final grading confirmed PLUS blood testing for Monepantel completed. Monepantel levels are in optimum range |
| # Dogs partially completed study | 9 | Partially completed – All study assessments complete, final grading confirmed. Blood testing for Monepantel NOT completed |
| # Dogs fully completed study - suboptimal blood levels | 5 | All study assessments are complete, Final grading confirmed PLUS blood testing for Monepantel completed. Monepantel levels in sub-optimum range |
| # Dogs withdrawn from study | 4 | Dogs withdrawn from the study due to lack of compliance with study protocol (usually due to dosing dogs incorrectly or given therapy not allowed in protocol) |
| Total # dogs enrolled to date | 34 | |

PET DOG PHASE 2 TRIAL: TREATMENT NAÏVE B CELL LYMPHOMA

RECIST OUTCOME FOR MONEPANTEL ALONE (16 COMPLETED DOGS)

| Total # dogs fully | #Dogs SD | # Dogs SD | |
|--------------------|--------------|--------------|--|
| completed to date | Target nodes | VCOG RECIST* | |
| 16 | 13 | 9 | |

REQUIRE 9 OF A FURTHER 21 DOGS WITH SD AT D28 TO MEET BAYESIAN OUTCOMES FOR SUCCESSFUL PHASE 2 TRIAL



MPL trial participant





PET DOG PHASE 2 TRIAL: TREATMENT NAÏVE B CELL LYMPHOMA EVALUATION DAY 28 VCOG RECIST VS OST (OVERALL SURVIVAL TIME)

DAY 28 - VCOG RECIST (SD)

| Study # | # Days (Monepantel monotherapy) | #Days (OST- Overall Survival Time) | Day 28 VCOG RECIST | |
|---------|---------------------------------------|--|-----------------------|--|
| 002-002 | 28 | 177 | SD | |
| 004-006 | 106 | 144 | SD | |
| 004-005 | 42 | 77 | SD | |
| 002-004 | 63 | 191 | SD | |
| 005-005 | 71 | 182 | SD | |
| 008-001 | 30 | 38 | SD | |

DAY 28 - VCOG RECIST (PD)

| Study # | # Days (Monepantel monotherapy) | #Days (OST- Overall Survival Time) | Day 28 VCOG RECIST | |
|--------------------------|---------------------------------------|--|-----------------------|--|
| 005-002 | 43 | 150 | PD | |
| 007-002 | 28 | 191 | PD | |
| 005-006 | 32 | 157 | PD | |
| 008-002 | 14 | 28 | PD | |
| 008-003 | >126 | >126 | PD | |
| nAust ₀₀₅₋₀₀₇ | 32 | >105 | PD | |



MPL trial participant



PET DOG PHASE 3 TRIAL HYPOTHESIS: TREATMENT NAÏVE B CELL LYMPHOMA

- Preliminary efficacy demonstrating anticancer activity in current Bayesian designed Phase 2 clinical trial
 - On track for successful Phase 2 completion
 - Optimum plasma drug levels very close to being finalised
- Median OST ~ 150 days in combination with prednisolone = 2.5
 -3.0 fold extension c.f. prednisolone alone
- Sufficient data to plan Phase 3 registration trial: +pred/ + doxorubicin warranted
- Very safe drug
- Independent manufacturing capabilities
- High quality of life, minimal side effects
- Pet Owner testimonials on PharmAust website:

https://www.pharmaust.com/veterinary-trial-testimonials/



MPL trial participant





WILL MONEPANTEL ALLOW GP VETS TO GROW A NEW CANINE ONCOLOGY MARKET SEGMENT?

| Therapy | Median OST (days) | Cost (USD) | Side effects | Vet Responsible |
|------------|-------------------|--------------|--|-----------------|
| None | 40 days | 0 | Reducing QoL | GP |
| Prednisone | 58 | 100 | PU/PD, Soiling in house, increased appetite | GP/Oncologist |
| CHOP | 300-360 | 8,000-12,000 | GI disturbance, no contact with family members for a period, reduced appetite, fatigue | Oncologist |

| Therapy | Median OST (days) | Cost (USD) | Side effects | Vet Responsible | |
|---------------------------|-------------------|------------|--|----------------------|--|
| Monepantel/ Prednisone | 150 | TBC | Owner surveys from 8 dogs indicate excellent QoL score feedback. Usual Prednisone side effects have not been reported (Requires larger dataset to confirm) | GP and/or oncologist | |



epichem

HOW DOES MONEPANTEL/PREDNISONE COMPARE TO NON-CHOP CANINE LYMPHOMA THERAPEUTIC OPTIONS?

| Product Trade name | Active | Therapeutic target | Dosing | Survival metrics | Treatment side effects | User safety cautions | Commercial deal |
|--------------------------|---------------------------|-----------------------|--------------------------|---------------------------|--|---|---|
| Laverdia* | verdinexor | Canine lymphoma | Orally (2-3x/week) | Median TTP (29.5 days) | Anorexia, weight loss, GI upset, lethargy, elevated liver enzymes | No contact with pet body fluids for 3 days post treatment | Global licence for Laverdia *Total deal: \$ US 64.5M Upfront: \$US 19 M |
| Tanovea** | rabacfosidine | Canine lymphoma | IV (every 3 weeks) | Median PFS 134 days | Vomiting, diarrhoea, weight loss, anorexia, dermatopathy Grade 4 - neutropaenia | No contact with pet body fluids for 5 days post treatment | Development and commercialization agreement (Elanco /Vet DC) Value undisclosed |
| TBD | Monepantel/ Prednisone | Canine lymphoma | Oral (daily) | Median OST 150 days | Occasional Grade 1 weight loss and elevated liver enzymes | Keep out of reach of children. | |

^{*} Laverdia FOI, Dechra Pharmaceuticals PLC acquired Worldwide Rights to Verdinexor from Anivive Lifesciences, Inc. for \$64.5 million. | MarketScreener

PFS - Progression Free Survival

TTP - Time to progression

CR - Complete response

OST – Overall survival time



CANINE TREATMENT NAÏVE B CELL LYMPHOMA SUMMARY POINTS

- PD outcomes at D28 are NOT associated with poorer clinical outcomes over the life of the dog
- The 9 dogs listed in the "partially completed" are NOT the same 9 dogs outlined as required to meet the Bayesian design outcomes
- No matter the treatment protocol, most dogs with Lymphoma will die from Lymphoma
 - Stabilisation (as opposed to regression) of lymphoma with good QoL is still an excellent outcome



MPL trial participant







Fi Milner – General Manager

Anusha Aubert – Business Development Manager







Our Formula. Your Success.



LEGACY

CERTIFIED ISO 9001 & ACCREDITED ISO/IEC 17025 & 17034

IP PROTECTION & CONFIDENTIALITY

EXCEPTIONAL REPUTATION

GLOBALLY AND LOCALLY RECOGNISED

- Top Australian employer of PhD graduates
- National and state export award winners

CONSISTENT POSITIVE FEEDBACK

DIVERSITY OF OFFERINGS

LONGEVITY

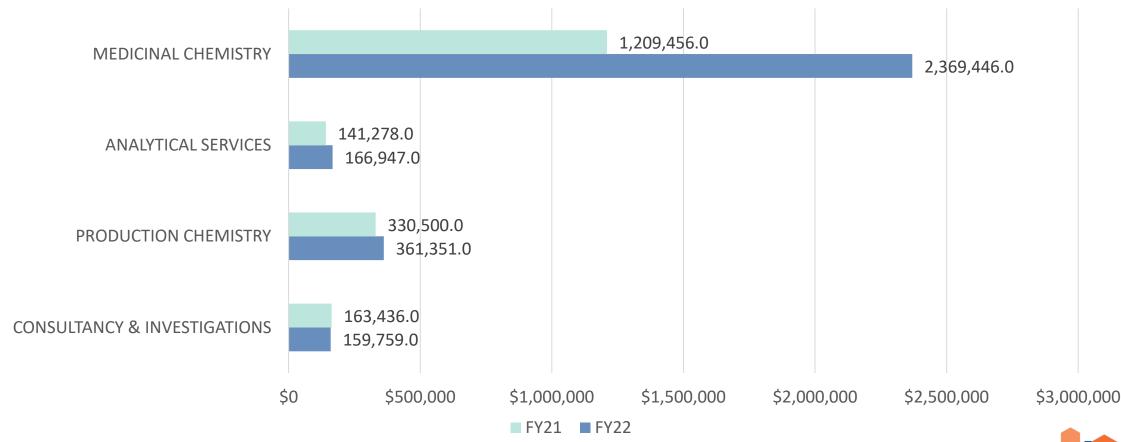
ALMOST 20 YEARS SUCCESS IN SERVING CLIENTS WORLDWIDE

IMPORTANCE OF TRUST



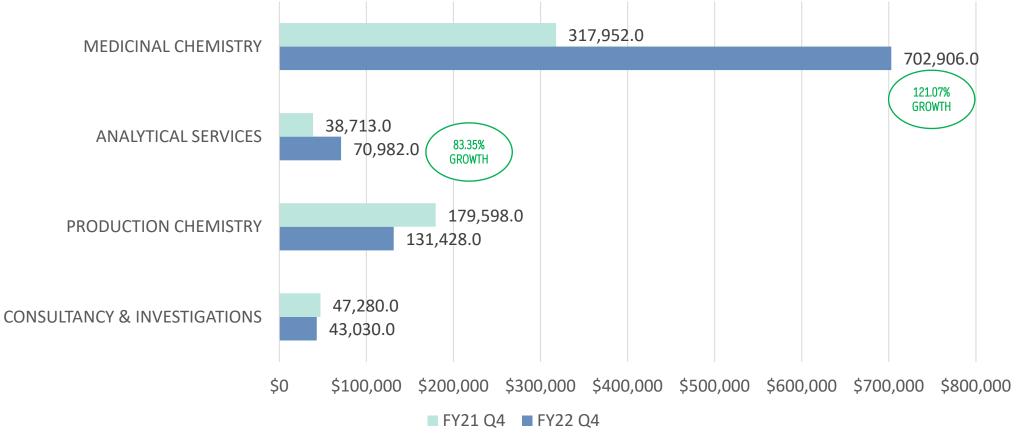


FY21 VS FY22 REVENUE





FY21 VS FY22 Q4 REVENUE







SOME PROJECT INSIGHTS

MEDICINAL, SYNTHETIC & PRODUCTION CHEMISTRY

Increase in diversity of projects and clients vs previous

International and local clients include:

- PYC
- Oncology One
- Remy Therapeutics

Pharmaceutical Reference Standards catalogue

ANALYTICAL CHEMISTRY

Multiple projects and expanding portfolio

- PharmAust
- Chevron
- Wild Child



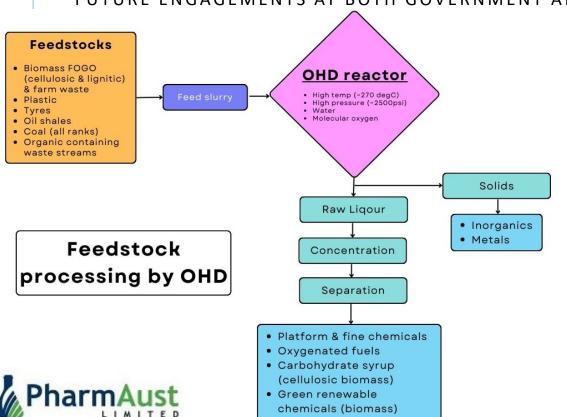




MATERIAL SCIENCE

OXIDATIVE HYDROTHERMAL DISSOLUTION (OHD)

CONTINUES TO BUILD MOMENTUM AND HIGH ENGAGEMENT WITH AN ARRAY OF CLIENTS ACROSS VARIOUS INDUSTRIES. NEAR COMPLETION OF A SIGNIFICANT PROJECT FOR SHELL/NERA, AIDED BY A NERA GRANT, SEES NOT ONLY PROMISING RESULTS (YET TO BE FINALISED), BUT ALSO PROMISES TO RAISE THE TIDE FOR FUTURE ENGAGEMENTS AT BOTH GOVERNMENT AND MAJOR PRIVATE COMPANY LEVELS.



- ❖ Shell/NERA grant project
- Collaboration with Curtin University on findings of ewaste grant of 2021

CONVERSION POTENTIAL

- Coal into diesel or agricultural biostimulants
- Plastics into renewable fuels
- Rubber tyres into liquid fuels/valuable chemical products
- Trees into cellulosic ethanol &/or fine chemicals
- Leftover stock or crops into liquid fuel, cellulosic ethanol & agricultural

AREAS OF FOCUS

GROWTH ACCELERATION

New Business Development Manager to maximise business opportunities and development including:

- Brand awareness
- Market presence
- Engaging with state government investment opportunities & focus in life sciences and biotech industry
- Collaborate with various stakeholders academia, government & private sector

Maximise R&D & export capabilities

Maintain current client needs and leverage their networks where possible

Ensure agility within the business as contracts come and qo



Our Formula. Your Success.



SUMMARY

Epichem is poised to capitalize on the global opportunities presented in life science's exponential growth through the variety of our services.

By utilizing our highly experienced team of chemists and leading edge laboratory equipment, we help organizations succeed. As our CEO says, "Efficiencies and growth will come from proactively transforming how we do business."







ANUSHA AUBERT <u>ANUSHA.AUBERT@EPICHEM.COM.AU</u>



