

Cyclopharm Limited

A profitable and growing market leader in nuclear lung imaging

Finance News Network Investor Event

12 December 2017

1



Disclaimer

Certain views expressed here contain information derived from publicly available sources that have not been independently verified.

The presentation includes certain statements, estimates and projections with respect to the anticipated future financial performance of Cyclopharm Limited and as to the markets for the company's products. Such statements, estimates and projections reflect various assumptions made by the directors concerning anticipated results, which assumptions may or may not prove to be correct. Cyclopharm Limited has not sought independent verification of information in this presentation.

While the directors believe they have reasonable grounds for each of the statements, estimates and projections and all care has been taken in the preparation, no representation or warranty, express or implied, is given as to the accuracy, completeness or correctness, likelihood of achievement or reasonableness of statements, estimates and projections contained in this presentation. Such statements, estimates and projections are by their nature subject to significant uncertainties, contingencies and assumptions.

To the maximum extent permitted by law, none of the Cyclopharm Limited, its directors, employees or agents, nor any other person accepts any liability, including, without limitation, any liability arising out of fault or negligence, for any loss arising from the use of information contained in this presentation.

All references to dollars unless otherwise specified are to Australian dollars.

Company Overview



Cyclopharm Limited (CYC) is a leading diagnostic lung imaging company

- A world leader in functional lung ventilation imaging technology
- Recurring consumables and capital equipment revenue streams
- A profitable and growing company with a history of dividend payments
- Lead nuclear medicine product Technegas is currently available in 56 countries with significant opportunity to expand into USA with FDA trial completion expected in Q3 2018
- Opportunity to broaden Technegas applications beyond pulmonary embolism diagnosis into large addressable markets such as COPD and Asthma

Cyclopharm Share Price (last 3 years)



Share Price (as at 11 December 17)	\$0.94
Shares on Issue	68.3 million
Market Capitalisation	\$64 million
Cash (30 Jun 17)	\$10.6 million

Our Strategy



CYC has clear strategy to leverage our position as a leading player in the global nuclear medicine imaging market and lung health space to expand the use of our proprietary products and introduce new innovative technology.

We will do this by:

- 1. Attaining approval to distribute Technegas in the USA
- 2. Expanding the use of Technegas beyond the traditional diagnosis of Pulmonary Embolism into significantly larger applications such as COPD₁ and Asthma, Lung Cancer and Pulmonary Hypertension for both diagnosis and patient management.
- 3. Identifying, developing and commercialising complementary innovative technology such as Ultralute™
- 4. Leveraging our core global regulatory strengths, fiscal discipline, strong balance sheet and well developed expertise in nuclear medicine and pulmonary healthcare to seek out complementary technologies and businesses

1H2017 Results Highlights



Group Sales Revenue \$6.06 million

■ Gross Margin \$5.00 million

■ Net Loss After Tax (\$1.43) million

Interim Dividend0.5 cents per share

■ Underlying Technegas EBITDA¹ \$861,000

■ FDA Trial expenses (\$1.58) million

Strong balance sheet
 \$10.62 million of cash reserves

Excluding the positive impact of the large Chinese order in FY16, the Board expects continuing modest growth in underlying Technegas volumes for FY17

Technegas - Product Overview



Cyclopharm's leading product is the Technegas technology system

- The Technegas proprietary technology provides high quality diagnostic functional lung imaging.
- Predominantly used to diagnose the presence of blood clots in the lung otherwise known as Pulmonary Embolisms (PE), with advances in complementary technology the potential for use in other indications is rapidly evolving.
- In a clinical setting, the patient inhales, in only a few breaths, an ultrafine dispersion of Technegas particles. Once inhaled and deposited in the lungs, Technegas images are then captured by using conventional nuclear medicine scanning equipment.
- The Technegas images provide the clinician an understanding of how well the patient's lungs are functioning across a range of disease states.
- CYC sells the Technegas Generator to hospitals as a one-off capital item. Consumable components are inserted into the Technegas Generator which then produce the gas like particles that are inhaled by the patient. The consumables which deliver Technegas are single patient use items.

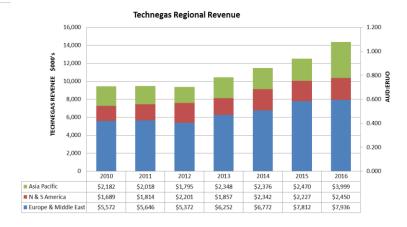


Technegas - Proven Market Adoption

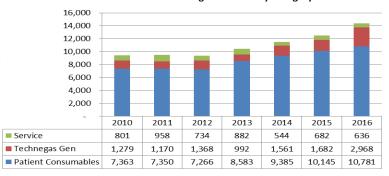


Technegas is a substantially de-risked commercial proposition with significant upside in the US market

- Total global sales of \$83m since 2010
- Technegas currently available in 56 countries
- Over 210,000 patient procedures in 2016
- Over 3,800,000 patient procedures since 1986
- 1,500 Technegas generators sold globally
- CYC is growing, underlying business is profitable and dividend paying company
- Stable gross margins of greater than 80%
- 79% of historical revenue is generated through recurring consumable sales



Technegas Revenue by Category



Advantages of Technegas



Technegas provides clinically superior outcomes to its competitors

- Better clinical results at a fraction of the high radiation doses used in CTPA (angiograms)
- No contraindications
- More accurate and sensitive measurement in diagnosing pulmonary embolism
- Particularly effective when CTPA is contraindicated e.g. renal impairment
- Improved patient comfort and tolerance with only 3-4 breaths required for delivery
- Allows for 3D images and regional quantification
- Named as the preferred ventilation imaging agent of choice in the European Association of Nuclear Medicine Guidelines

IP/Generic protection

- Technegas is a system needs the generator, patient administrator set (PAS) and service capability
- R&D on 3rd generator generation underway set to extend IP protection

Competitive Nuclear Medicine Products

Product	Comparison to Technegas
Xenon 133	 Patient has to continually re-breathe gas causing patient discomfort / anxiety Can't provide 3D images Costly air-handling infrastructure required in order to administer
DTPA	 Inferior images in patients with obstructive lung disease (COPD)



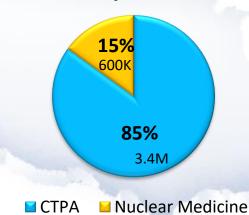
FDA Trial and USA Commercialisation





600K Nuclear Medicine Ventilation

Procedures p.a. = \$90m USD



- Target market for Technegas in the USA equates to ~480,000 patient procedures of the total 600,000 procedures conducted p.a.in that market (Current Rest of the World volumes for Technegas = ~200,000 patients p.a.)
- Subject to a successful trial and FDA approval, the Company is targeting US commercialisation in Q4 2018
- Once commercialised Cyclopharm will target the much larger PE market dominated by CTPA where 3D SPECT imaging using Technegas is proven to be clinically superior and safer than CTPA
- 4 Million Patient Studies Performed in the USA per annum to Diagnose Pulmonary Embolism (PE).
- The USA represents the single largest market for Technegas with half of the world's nuclear medicine departments
- First priority following USFDA approval is to repeat our Canadian experience by displacing Xe133 as the standard of care diagnostic product

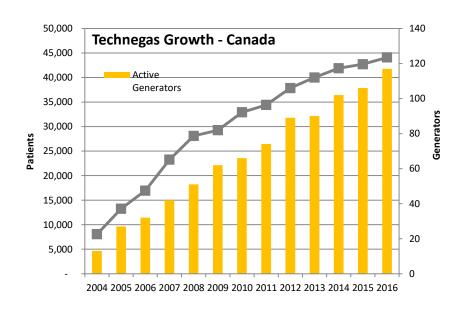
Technegas – The Canadian Case Study



Canada is Cyclopharm's largest single country market

Market leader for diagnosing PE 13 consecutive years of PAS growth Represents a strong indicator of USA acceptance Xe-133 rapidly displaced by early adopters Direct correlation with the number of active generators and annual consumable sales Market driven by public healthcare sector Market launch initiated province by province, leveraging off pilot sites

The Generator and Consumable Relationship





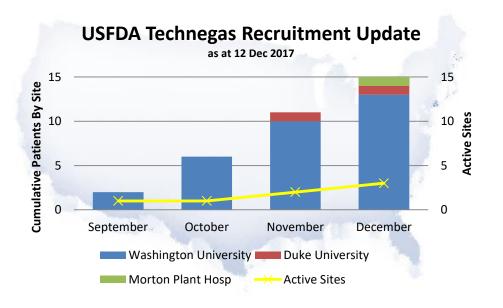
Study Specifics:

- Non-inferiority structural ventilation study comparing Xe133 vs. Technegas
- Pathway to approval requires a two part study
 - ✓ CYC 010 Establishes the Inter & Intra reader variability for Xe133 Completed
 - ✓ CYC 009 Compares Xe133 with Technegas requiring patient recruitment SPA Approved.
- Total estimated trial cost \$7.0 million USD with \$2.6m AUD spent to date
- Assumes 240 patient study at up to 15 clinical sites
- Patient recruitment commenced at Washington University St Louis on 25 September 2017
- CYC will complete a preliminary 40 patient trial for submission to the FDA in Q1 2018



USFDA Patient Recruitment Update





Sites Actively Enrolling Patients

- Washington University St Louis Missouri
- Duke University Durham North Carolina
- Morton Plant Clearwater Florida

Final Stages of Site Recruitment

- University of Texas South Western Dallas Texas
- Scott & White Temple Texas
- Loyola University Hospital Maywood Illinois
- Emory University Hospital Atlanta Georgia

Mid Stage Site Initiation – 6 Locations

Early Stage Site Initiation – 7 Locations

cyclopharm Nuclear Medicine

Pathway to US commercialisation

- New Manufacturing Facility Q4 2016 Increased capacity to meet future demand & regulatory requirements
- Target preliminary study completion Q1 2018 Conclude a preliminary study of 40 patients and receive feedback from the FDA.
- Target FDA Trial completion Q3 2018 Assuming positive feedback from the preliminary study, the Company will continue
 with the comprehensive FDA trial which it anticipates will be completed during Q3 2018.
- Target commercial launch Q4 2018 Following the preliminary 40 patient study the Company will invest in Technegas inventory and, after successful completion of FDA trial and issue of FDA approval, target commercial launch in the US during Q4 2018
- **US** market penetration Based on experience in other markets, the Company is targeting greater than 50% of the \$90m USD competitive product market conversion in the US over a period of 5 to 7 years.
- Increased gross margin in US market The Company expects to maintain or improve its historical gross margin on both consumable and capital equipment sales in the US market.is based on competitive product pricing
- Continue to Develop New Indications Expand the use of Technegas beyond Pulmonary Embolism



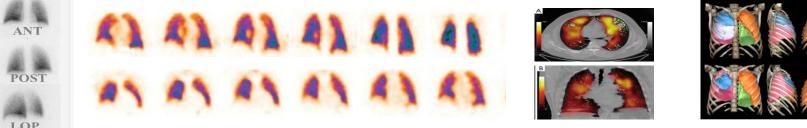
Technegas Expanding Indications

Evolution of Functional Lung Ventilation Imaging



- Improvements in 3D imaging techniques, hybrid imaging and the advent of analytical software have dramatically improved the sensitivity and specificity in functional lung imaging with Technegas
- Traditionally used in the diagnosis of Pulmonary Embolism, nuclear medicine functional lung ventilation imaging utilising improved imaging techniques are expanding the potential clinical utility for Technegas

The following Technegas images underscore the advancement in complementary technology Cyclopharm is leveraging today:



1980s 2010 2010 2015

Planar Imaging

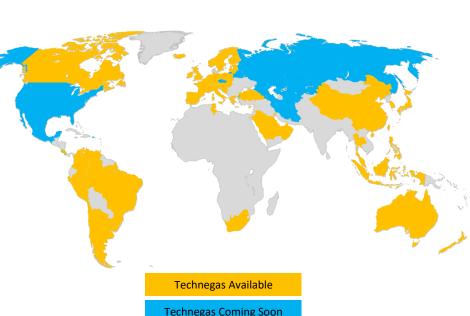
SPECT Imaging

SPECT with Low Dose CT SPECT with Low Dose CT & Lobular Quantification

Existing Market Development Strategy



- Sales and marketing program targeting referring respiratory physicians
- Implemented educational programs for Distributors
- Updating Technegas distribution contracts to include detailing to respiratory physicians
- Leveraging New Complementary Technologies
- Strengthening relationships with KOL's and industry bodies
- Guideline Development
- Product Renewal & Enhancements
- Initiated pilot clinical trials targeting expanded indications
- Introduction of new products by leveraging off of existing network - Ultralute



Technegas – Global Indication Expansion



- ✓ Applications in chronic disease has the potential to dwarf the use of Technegas in Pulmonary Embolism
- ✓ In 2015 Cyclopharm commenced a clinical program targeting Technegas indication expansion to include:

Chronic Obstructive Pulmonary Disease

- 30x the size of total PE market
- 1 in 7 Australians over the age of 40
- In 2008, the total economic impact of COPD was estimated to be \$98.2 billion of which \$8.8 billion was attributed to financial costs and \$89.4 billion to the loss of wellbeing.
- COPD is a leading cause of death and disease burden after heart disease, stroke and cancer
- Global estimates show that COPD will be the third leading cause of death by 2030

Lung Reduction Intervention

 Application in determining ventilation pre and post lung reduction intervention

Asthma

- 334 million people globally
- 1 in 9 Australians have asthma
- \$655 million was spent on asthma in 2008-9; which is 0.9% of all direct health spend on diseases.
- 34% of people report that asthma interferes with their daily living, and 21.8% of people aged 15-25 required time off work, school or study due to their asthma

CTEPH

- Ventilation/Perfusion imaging is recommended
- Up to 40 million patients globally





2017 Strategic Priorities and Outlook

Strategic Goals & Guidance	Activity	Timeframe
United States FDA Approval	 \$7m raised to fund USFDA clinical trial with >90% shareholder participation Patient recruitment initiated Complete clinical site recruitment Complete Extended Technegas particulate study Submit preliminary 40 patient report to the USFDA Finalise patient recruitment Submit New Drug Application to the USFDA 	Q2 2017 Q3 2017 Q1 2018 1H 2018 1H 2018 2H 2018 2H 2018
Indication Expansion	 Peer reviewed publication for China COPD study published UoN-HMRI-JHH clinical trial initiated Identify additional sites for pilot clinical trials targeting Technegas indication expansion Commence new pilot trials in Canada and Australia 	Q2 2017 Q2 2017 2H 2017 1H 2018
New Product – Ultralute™	 First sales of Ultralute™ Finalise multi-centre multi-country trial design with the IAEA Initiative IAEA trial 	1H 2018 2H 2017 1H 2018
Expand Product & Service Offering	 Identify and evaluate business prospects targeting growth, product extension, diversification, improved distribution models, accretion and enhanced returns Purchased nuclear medicine distributor covering BeNeLux region 	Ongoing Q3 2017
Trading Update – Ongoing Underlying Growth (excluding China)	 FY2017 Trading YTD is in line with Board's Expectations Continued growth in core underlying sales Modest increase in generator and PAS volumes in existing markets Investing in transformational growth 	FY 2017
Full Year Guidance Affirmed	 Excluding the positive impact of the large Chinese order FY16, the board expects continuing modest growth in underlying Technegas volumes for FY17. Guidance affirmed. Timing of orders in the pipeline could affect 1H/2H split hence guidance focused on full year outlook UltraluteTM revenues, following launch in late H1 2017. contribution expected in FY18 and beyond. 	FY 2017



See What Clinicians Have to Say

Go to Testimonials @ http://cyclopharm.com.au/clinical/





Appendix

- 1H FY17 Results
- Technegas
- Newcastle Trial
- UltraluteTM
- MMI
- Disclaimer

2017 Operating Highlights



- Technegas continuing to perform well YTD Technegas volumes performing to expectations.
- **Ultralute** First commercial batch of Cyclopharm's new patented UltraluteTM technology validated and ready for sales with first sales expected in first quarter 2018
- Successful Capital Raising \$6.59 million raising (after costs) completed 30 June 2017 with 90% shareholder participation.
- Clear path to US commercialisation Trial design FDA approved The clinical trial design has been approved by the FDA substantially reducing the risk of any adverse regulatory obstacles during the approval process
- Commencement of 240 USFDA patient trial Funds raised from the capital raising will facilitate the recruitment of the 240 patients required for the clinical trial across 10 to 15 sites with a 40 patient interim USFDA submission expected 1H 2018. Completion of the US clinical trial and FDA approval will clear the path for the immediate large scale commercialisation of Technegas across the US market. As at 12 December 15 patients have been imaged to date.
- Commencement of 100 patient small airways disease trial 25 patients enrolled in the 100 patient study
- Commercial sales targeted to commence Q4 2018 The Company anticipates that the clinical trial will be completed in Q3 2018 with the aim of achieving commercial US sales in Q4 2018
- Acquisition of Agency in Benelux Expanding our offering and implementing our strategy of targeting respiratory physicians
- Restructure of German Operations German operations restructured in December in order to deliver to deliver on long term objectives

Group 1H2017 Underlying Performance



Solid Underlying Financial Results

Half Year ended 30 June (\$000's)	2017	2016
Consolidated sales	6,057	6,457
Gross margin	4,996	5,386
Gross margin % sales	82.5%	83.4%
Consolidated EBITDA	(1,023)	824
Add back:		
CPET / Ultralute tm division EBITDA	242	202
Other non-operating expenses ¹	59	(23)
FDA expenses	1,583	418
Technegas Underlying EBITDA ²	861	1,421

During the half year, CYC continued to implement its strategic priorities, which are to:

- Grow the core business, based on expanding Technegas sales in existing markets;
- Accelerate the path to regulatory approval to sell Technegas into the world's largest and new highly prospective US market;
- Pursue sales of Technegas in new applications: Chronic Obstructive Pulmonary Disease ("COPD") and Asthma which are significantly larger markets than the Pulmonary Embolism market where CYC traditionally operates; and
- 4. Commence sales of our exciting Ultralute[™] nuclear medicine complementary technology in the first half of 2018.

^{1.} Realised and unrealised foreign exchange gains and losses

^{2.} Underlying Results represent results from the division excluding realised and unrealised foreign exchange gains and losses and FDA Expenses

Group 1H2017 Balance Sheet



Financial Foundation to Leverage Growth Strategy

(\$000's)	30 June 2017	31 Dec 2016	
Cash	10,620	4,591 6,470 5,354	
Other current assets	5,710 5,562		
Non-current Assets			
Total Assets	21,892	16,415	
Current Liabilities	4,206	3,896	
Borrowings	-	-	
Non-current Liabilities	273	57	
Total Liabilities	4,479	3,953	
Net Assets	17,413	12,462	

- Debt free & \$10.6m cash on hand provides
 balance sheet and funding flexibility
- Funding used toward USFDA clinical trial enrolment and New Drug Application submission
- Strong financial position supports ongoing investment in R&D and expansion into new markets and indications

Cash Position



Solid Cash Generation & Funded for Growth

(\$000's)	HY 2017	FY 2016
Operating Activities	(189)	655
Investing Activities	(546)	(2,221)
Financing Activities	6,311	(754)
Net Increase in Cash	5,575	(2,320)
Opening Cash	4,591	6,445
Foreign Exchange	454	466
Closing Cash	10,620	4,591
Underlying Net Increase in Cash excluding the below categories:	754	1,008
Net proceeds from share issue	6,589	_
Payments for FDA Expenditure	(1,377)	(1,035)
Kingsgrove facility PP&E	_	(1,670)
Payments for Deferred Expenditure	(391)	(426)
Repayment of Bank Borrowings	-	(197)

Successful Capital Raising

- Completed a fully-underwritten
 Entitlement Offer that raised \$6.59
 million after costs.
- The Offer supported by approximately 90% of eligible shareholders
- Sub underwritten by Cyclopharm's largest institutional investor
 Australian Ethical Investments.

What is Technegas?



Technegas is the world leader in functional lung ventilation imaging.

- Technegas is a structured ultra-fine dispersion of radioactive gas like substance which is inhaled by the patient. It allows imaging for evaluating functional ventilation.
- Primarily used to diagnose the presence of blood clots in lungs (Pulmonary Embolism)
- Produced by heating Technetium-99m in a carbon crucible for a few seconds at 2,750 degrees Celsius
- The resultant gas-like substance is produced in a Technegas generator
- The small size and hydrophobic properties together confirm ideal characteristics for gas-like behaviour on inhalation into the lungs
- Technegas, used in the ventilation part of the low radiation dose V/Q SPECT imaging, is cost-effective, simple to perform and accurate

Technegas is a System

In order to deliver the best clinical outcomes, Technegas requires the combination of authorised:

- Equipment and consumable sales and support
- ✓ Regulatory representation
- Technical provision of equipment installation and maintenance
- ✓ Applications education in the use of the Technegas technology

Technegas	Consumable -	Patient A	Administrator	Set
------------------	--------------	-----------	---------------	-----

This maps cannot currents to dischard.			
l .			
I			
l .			

FDA Approved Trial Design



- De-risked clinical trial strategy In order to mitigate regulatory risk the Company adopted the FDA Special Protocol Assessment (SPA) pathway for its US clinical trial
- **FDA approved trial design** The SPA pathway provided the Company with the opportunity to reach agreement with the FDA on the overall protocol design (including entry criteria, dose selection, endpoints and planned analysis).
- Regulatory risk substantially eliminated The key benefits of the SPA pathway are the value of preliminary input from the FDA around trial design and eliminating the risk that clinical endpoints can be called into question at the time of the New Drug Application submission.
- Broad patient selection criteria The trial is designed on an 'all comers basis' meaning broad selection criteria which will facilitate the expeditious completion of the trial in Q3 2018.
- Short timeframe to FDA approval and commercial launch The Company has diligently de-risked the FDA clinical trial process and looks forward to concluding the trial and obtaining FDA approval with the aim of commencing US commercialisation during Q4 2018

Technegas Indication expansion – Australian Initiative



- Partnership with the University of Newcastle, John Hunter Hospital and Hunter Medical Research Institute
- Targeting Clinical Applications in COPD Patients
- Clinical Hypothesis:

Small airway dysfunction assessed using Technegas functional lung ventilation imaging with quantification identifies treatable traits of obstructive airway disease.

- The pilot study will be seeking to ascertain:
 - Is there ventilation heterogeneity among patients with severe obstructive airway diseases that can be assessed using Technegas functional lung ventilation imaging with quantification?
 - Is Technegas functional lung ventilation imaging with quantification responsive to changes following intervention in patients with severe obstructive airway diseases?
- Study Specifics
 - Q4 2016 Protocol finalised
 - 2H 2017 Patient recruitment commenced 19 September 2017
 - Patient size = 100
 - 1.5 Year Project Term
 - ~\$600k AUD Project Cost
 - 25 Patients enrolled as at 12 December 2017







Ultralute[™]



Innovative, first-in-class, disruptive, proprietary technology used to improve radiopharmaceutical manufacturing efficiency and deliver health care cost effectiveness



Ultralute™

- Extension of Generator life the Ultralute will extend the effective use of an Mo99 generator by up to 50%
- Reduced purchase volumes Allows the user to purchase a smaller (lower cost) Mo99 Generator
- Cost effective Provides a saving of between 30% to 40% in the cost of Tc-99m
- Large market there are over 5,000 Mo99 generators sold worldwide each week.
- Commercialisation Sales expected to commence H1 2018
- Strong IP Patents secured in 2014
- Supportive peak body Strong relationship with the International Atomic Energy Association (IAEA)
- Established clinical trial strategy Multi-centre multi-country trial planned in conjunction with the IAEA

Macquarie Medical Imaging





- Joint venture with:
 - 50% Alfred Health Solutions
 - 30% Macquarie University
 - 20% Cyclopharm
- Comprehensive suite of imaging modalities
- State of the art research platform
- Growth and profitability linked to ramp-up of Macquarie University Hospital
- EBIT positive since 2014
- Sales revenue increased 8% in 2016 as outpatient initiatives implemented at Macquarie University Hospital take effect
- Satellite Outpatient Clinic opened in 2H 2016 at nearby Macquarie Shopping Center













Disclaimer

Certain views expressed here contain information derived from publicly available sources that have not been independently verified.

The presentation include certain statements, estimates and projections with respect to the anticipated future financial performance of Cyclopharm Limited and as to the markets for the company's products. Such statements, estimates and projections reflect various assumptions made by the directors concerning anticipated results, which assumptions may or may not prove to be correct. Cyclopharm Limited has not sought independent verification of information in this presentation.

While the directors believe they have reasonable grounds for each of the statements, estimates and projections and all care has been taken in the preparation, no representation or warranty, express or implied, is given as to the accuracy, completeness or correctness, likelihood of achievement or reasonableness of statements, estimates and projections contained in this presentation. Such statements, estimates and projections are by their nature subject to significant uncertainties, contingencies and assumptions.

To the maximum extent permitted by law, none of the Cyclopharm Limited, its directors, employees or agents, nor any other person accepts any liability, including, without limitation, any liability arising out of fault or negligence, for any loss arising from the use of information contained in this presentation.

All references to dollars unless otherwise specified are to Australian dollars.

Corporate Head Office

Cyclopharm Limited Unit 4, 1 The Crescent Kingsgrove NSW 2208 Australia T: +61 (2) 9541 0411 F: +61 (2) 9543 0960

Enquiries

E: enquiries@Cyclopharm.com.au

Share Registry

NextRegistries Level 16 1 Market Street Sydney NSW 2000 T: +61 (2) 9276 1700 F: +61 (2) 9251 7138