

Bioshares 2024

12 July 2024

James McBrayer CEO & Managing Director

ASPIRE. INSPIRE. ILLUMINATE

SAFE HARBOUR STATEMENT

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.

This presentation was approved and authorised for release by James McBrayer, Managing Director, CEO and Company Secretary.





Technegas[®] around the world

Technegas® was introduced clinically **in 1986**



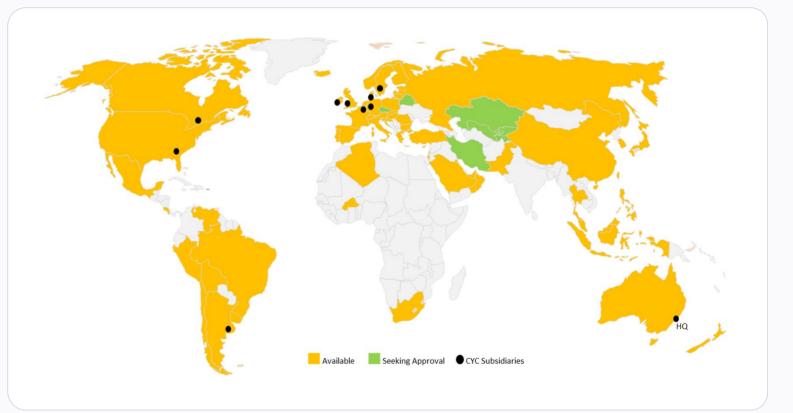
Technegas® generators are available in **65 Countries** via a combination of direct and distributor sales models



Over **4.8 million** patient procedures to date



Leveraging global infrastructure with **Business Partner Product** distribution





A Busy 12 Months: for Cyclopharm

2

3

4

5

6

8

USFDA Approval received for Technegas

Technegas Sales in the USA - Generating Revenues at every installed US clinical site

Regulatory renewals in existing markets achieved in under the new MDR and renewed MDSAP regimes

"Beyond PE" studies published, **expanding clinical applications** to include asthma, lung cancer, COPD and Long COVID

 $\ensuremath{\textbf{Board renewal}}\xspace - \ensuremath{\mathsf{skills}}\xspace$ in place for the next phase of growth

Secured adjacent Sydney manufacturing spacemanufacturing capacity is future-proofed

clopharm

Fully funded to deliver USA growth targets – recent \$20m capital raise plus an additional \$4m SPP

US reimbursement awarded to Technegas – accelerating installation expected



Technegas Overview

ASPIRE. INSPIRE. ILLUMINATE

Technegas® Aerosol for Inhalation

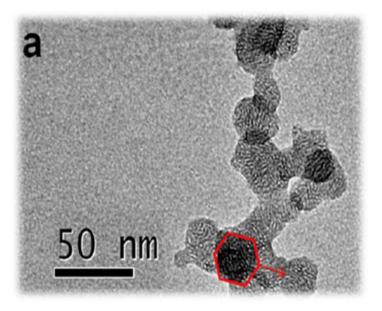
Functional Imaging showing where Oxygen is distributed within the lung



Technegas® is composed of 99mTc cores encapsulated within layers of graphite to form individual hexagonal plate-like particles.¹⁻²

Technegas is manufactured by heating Technetium-99m in a carbon crucible within an argon environment for a few seconds at 2,750 degrees Celsius.³

Image source: Blanc-Béguin et al, 2020 Its very small particle size allows distribution into the lungs like a gas and deposited in alveoli by diffusion, providing for Planar, SPECT and SPECT/CT ventilation imaging.





1. Wiebe LI, et al. Current Radiopharmaceuticals 2010; 3(1): 49-59

- 2. Blanc-Béguin F, et al. Mol Imaging Biol 2020;
- 3. Lemb M, et al. Eur J Nucl Med 1993; 20(576-579)

Overview of Technegas[®]

Unique Drug + Device + Service combination = regulatory barrier to entry

Technegas® comprises the following components

🏷 cyclopharm



- USFDA Drug-Device Combination product
- Razor Razorblade Model business model
- Per-patient consumables drive an annuity-like revenue stream
- All Technegas components are manufactured / assembled by Cyclopharm

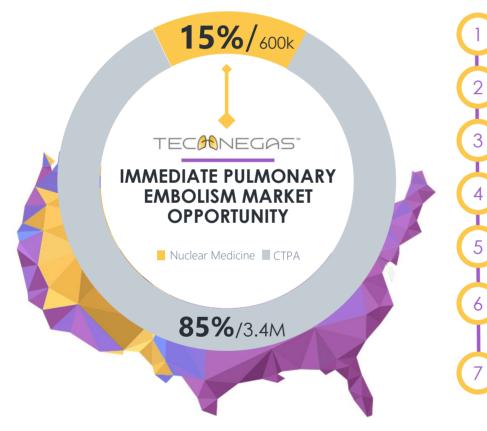


Technegas USA Opportunity

ASPIRE. INSPIRE. ILLUMINATE

Overview of the US market opportunity

600K Nuclear Medicine Ventilation Procedures p.a. in the USA* for PE



Estimated 4,000,000 pulmonary embolism procedures in the USA p/a (15% Nuclear Medicine / 85% CTPA)

~600,000 (15%) Nuclear Medicine procedures represents an initial **U\$\$90m** addressable market

Initial target for Technegas® ~480,000 patient procedures

Technegas[®] expected to **displace Xe133 followed by DTPA** as the standard of care nuclear medicine diagnostic product in the US

3D SPECT imaging using Technegas[®] is proven to be **clinically** superior and safer than CTPA**

Cyclopharm's target is to **double the existing nuclear medicine PE market** in the US, which is dominated by CTPA, from **15% to 30%**

US entry expected to drive our **Beyond PE** strategy to use Technegas[®] for additional disease states (asthma, long-Covid etc.) which are exponentially larger than the existing markets

* Revenue and patient volume projections based on internal company analysis **Leblanc M, et al. CANM 2018; https://canm-acmn.ca/resources/Documents/Guidelines_Resources/MasterDocument_Final_Nov_21_incl-Exec-Sum_ver3_Dec.%2012_.pdf 2.a



US Economic Model

Placement Model to Expedite Consumable Demand

- **US\$7k** one-off installation and training fee
- **US\$7k p.a.** technology fee, includes servicing
- Annuity Revenue Per patient fee for consumables (sold in 50 patient units)
- O US\$70k revenue per system per annum expected from larger sites¹
- >15 yrs average life per system

- **Targeting 2,000** of the 8,000 US nuclear medicine departments
- System Placement model supports rapid uptake by US customers by removing the initial capital outlay to drive implementation of the technology
- Initial focus on clinical trial and high-volume sites for the greatest clinical impact and greater repeat demand for consumables
 - **Modest cost base** for US roll-out ~US\$6.5m operating costs per annum by 2025
- High consumable annuity gross **margins** expected at **greater than 80%**
- \$180m USD market for diagnosing PE. Beyond PE applications to significantly grow the global market
- 1. Calculation based on expected demand and market price for competing products (e.g. Xe133).



Broad Indication for use approved by USFDA

Potential applications across the entire field of respiratory medicine

Technegas (kit for the preparation of technetium Tc99m labeled carbon inhalation aerosol) for oral inhalation use – NDA 022335

------USFDA APPROVED INDICATIONS AND USAGE------

TECHNEGAS, when used with sodium pertechnetate Tc 99m in the Technegas Plus System, provides technetium Tc 99m-labeled carbon inhalation aerosol (Technegas Aerosol), a radioactive diagnostic agent for use in adults and pediatric patients aged 6 years and older for:

- visualization of pulmonary ventilation
- evaluation of pulmonary embolism when paired with perfusion imaging

11

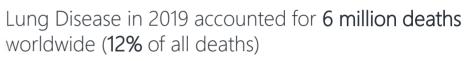
Beyond PE: Blue Sky



Indication Expansion – The Importance, Urgency & Opportunity Beyond PE

3

5



COPD and Lower Respiratory Infections and Lung Cancer will be the 3^{rd} , 4^{th} and 6^{th} largest causes of death by 2030.

"Over and underdiagnosis of Lung Disease has a **huge** economic impact. COPD misdiagnosis revealed that the under or over diagnosis and prevalence of this disease was 56.7–81.4% and 29.0–65.0%, respectively leading to 55.4% squandering of treatment costs²"

Misdiagnosis can be **fatal**

Exponential Growth Potential for Technegas

. World Health Organisation - The top 10 causes of death 2019 (who.int)

2. Munir, M., Setiawan, H., Awaludin, R. *et al.* Aerosolised micro and nanoparticle: formulation and delivery method for lung imaging. *Clin Transl Imaging* (2022). https://doi.org/10.1007/s40336-022-00527-3

Beyond PE applications Already underway



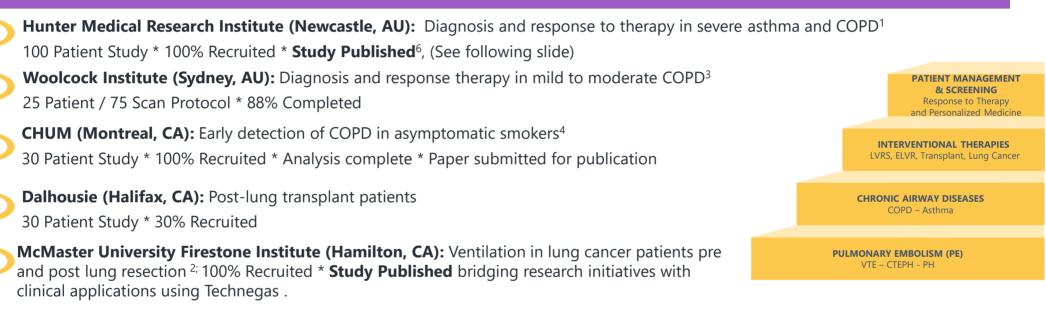
*Including PE applications. On a long-term basis. See Slide 15 'Horizon 3' for further details.

- 1. Roach PJ, et al. J Nucl Med 2013; 54: 1588-1596
- Ohira H, et al. J Nucl Cardiol 2015;22(1): 141-157
 Hsu K, et al. J Bronchology Interv Putmonol 2018; 25(1): 48-53 11.
 Mortensen J, Berg RMG, Semin Nucl Med 2019; 49(1): 16-21
- Wechalekar K, et al. Semin Nucl Med 2019; 49(1): 22-30
 Eojelmy S, et al. AJR Am J Roentgenol 2016; 207(6): 1307-1315
- 1315 7. Eslick EM, et al. Semin Nucl Med 2019; 49(1): 31-36
- 8. Farrow C, King GG. Semin Nucl Med 2019; 49(1): 11-15
- Jögi J, et al. Int J Chron Obstruct Pulmon Dis 2014; 10: 25-30
- 10. Bajc M, et al.. Int J Chron Obstruct Pulm Dis 2017; 12: 1579- 17.
- 1. Verger A, et al. Eur J Nucl Med Mol Imaging 2020; 47(11): 18. 2709-2710 19.
- Baloul A, et el, Eur J Nuc Med Mol Imaging 2021; 48(8):2525- 20. 2530
 - Bajc M, et al, Clin Med Insights 2021; Vol 14 1-4
- 14. Blanc-Beguin F, et al, Mol Img Bio 2021, 23:62-69
- 15. Currie G, J Nuc Med Tech 2021; 49:313-319
 - Ozguven, S, et al; Mol Imag Rad Therapy; 2021: 30:28-33
- Tee, et al; Intrevent Pulmonology; 2021, DOI 10.1159/000515336
- 18. Le Roux, et al, J Nuc Med July 2022, 63 (7) 1070-1074
- 19. Berhouse, et al, Respiratory Research 2022; 23: 296
- Ridiadia, et al, ATS Abstract; doi.org/10.1164/ajrccmconference.2022.205.1_MeetingAbstracts.A2554
- 21. Venegas C, et al, ATS Abstract; doi.org/10.1164/airccm-
- conference.2022.205.1
 Le Roux, et al; Clinical Nuclear Medicine, 27 Oct 2022; doi:
- Le Roux, et al; Clinical Nuclear Medicine, 27 Oct 2022; doi 10.1097/RLU.00000000004426



Beyond Pulmonary Embolism CYC Initiatives

7 Cyclopharm sponsored Beyond PE clinical trials – US approval expected to drive clinician led studies



McMaster University Firestone Institute (Hamilton, CA): COVID-19 Related Lung Ventilation and Perfusion Injury⁵ 100% Recruited * Abstract presented at the American Thoracic Society May 2023 with paper to follow.

PRONOSPECT (France): 665 Patient multicentre trial designed to Predict the Risk of Venous Thromboembolism (VTE) Recurrence in Patients With Pulmonary Embolism (PE). Patients will be imaged with nuclear medicine regardless if initially diagnosed with CTPA or nuclear medicine^{8.} Recruitment commenced.

- ACTRN12617001275358 Can functional lung ventilation imaging identify treatable traits in obstructive airway disease?
- 2. https://clinicaltrials.gov/ct2/show/NCT04191174?term=technegas&draw=2&rank=3
- 3. http://investor.cyclopharm.com/site/PDF/1561_0/BetterDefiningAirwaysDiseasewithTechnegas
- 4. https://ichgcp.net/clinical-trials-registry/NCT03728712

- 5. https://clinicaltrials.gov/ct2/show/NCT04549636
- 6. https://pubmed.ncbi.nlm.nih.gov/38151119/
- 7. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10206636/
- 8. https://classic.clinicaltrials.gov/ct2/show/NCT06372730





"Ventilation Heterogeneity Is a Treatable Trait in Severe Asthma¹"

- 1. Gibson PG, et al. Ventilation Heterogeneity Is a Treatable Trait in Severe Asthma. J Allergy Clin Immunol Pract. 2024 Apr;12(4):929-935.e4. doi: 10.1016/j.jaip.2023.12.030. Epub 2023 Dec 25. PMID: 38151119
- 2. https://www.newcastle.edu.au/newsroom/featured/newuse-for-a-lung-scanning-test-to-benefit-severe-asthmapatients

"Because of its sensitivity in the 'silent zone' of the lung – the notoriously difficult to see small airways that are 2mm – 4mm in diameter – **this test helps us see if the drugs we are giving patients for severe asthma are working**."

"There are four different types of drugs given to severe asthma sufferers so this will help **ensure patients are being prescribed the correct drug**."

The (Technegas) imaging procedure is "safe, fast and cost-effective way of ensuring **personalised treatments** were working."

"Previously, we have had to rely on symptoms surveys from patients. This test provides very accurate, **objective and detailed information** to support patient accounts of their symptoms."

Professor Peter Gibson²

Technegas - Applications in Patient Management and Response to Therapy





Understanding the Opportunity

ASPIRE. INSPIRE. ILLUMINATI

Total value creation opportunity

Exponential Growth Opportunity Over The Next Decade

	Pulmonary Embolism:	Timeline	USA PE Market Share	Market size
	Horizon 1 – Full displacement of existing nuclear medicine tests for PE	0 - 5 years	15%	US\$90m
2	Horizon 2 – Commence converting CTPA exams to Technegas	0 - 8 years	30%	US\$180m*

3	Beyond Pulmonary Embolism:	Timeline Global	Market size
	Horizon 3 – Expanding Beyond PE Globally into new indications such as asthma and chronic obstructive pulmonary disease	> 8 years US\$900r	
		Total long term revenue opportunity	>U\$\$1.1bn



*Assumes Combined Nuclear Medicine and CTPA Market

WHAT THE GUIDELINES SAY ABOUT TECHNEGAS® :

Endorsed by the guidelines from the <u>European¹⁻²</u> and the <u>Canadian³</u> Associations of Nuclear Medicine (EANM & CANM)

- 1. Bajc M, et al. Eur J Nucl Med Mol Imaging 2019; [Epub ahead of print]: https://link.springer.com/content/pdf/10.1007%2Fs00259-019-04450-0.pdf
- Bajc M, et al. Eur J Nucl Med Mol Imaging 2009; 36(8): 1356-70; https://eanm.org/publications/guidelines/gl_pulm_embolism_part1.pdf
- Leblanc M, et al. CANM 2018; https://canmacmn.ca/resources/Documents/Guidelines_Resources/MasterDocument_Final_Nov_21_incl-Exec-Sum_ver3_Dec.%2012_.pdf 2.a

" Using 99m-Tc-Technegas is according to clinical experience **better than the best aerosols**"

" Technegas® facilitates interpretation, particularly in COPD"

" For ventilation, **99m-Tc Technegas**" is the best-aerosol particularly in patients with COPD "

" Liquid aerosols are inferior for SPECT and should not be used unless Technegas[®] is not available "

" The **best widely available agent for ventilation** is 99m-Tc-Technegas "

" Because of the very small particle size, this agent is distributed in the lungs almost like a gas and deposited in alveoli by diffusion, where they remain stable, thus **providing the best possible images for ventilation** SPECT "

" Another advantage is that only a few breaths are sufficient to achieve an adequate amount of activity in the lungs, **reducing time and personnel exposure to radiation** "

"Technegas[®] is considered the **agent of choice** in the COPD population as there is less central airway deposition, better peripheral penetration, and it does not wash out as quickly as traditional aerosols "

Technegas is the nuclear medicine agent of choice in established markets



Compelling US Clinical Support

SNMMI Technegas Press Release – USA Catching up with the R.O.W.

FDA Approves Widely Used Imaging Agent for Respiratory Disease

September 29, 2023

Reston, VA—The U.S. Food and Drug Administration (FDA) has approved the imaging agent Technegas for use in ventilation–perfusion studies to diagnose pulmonary embolism and other respiratory pathologies. A carbon-based nanoparticle developed in Australia nearly 40 years ago, Technegas has been recognized as a standard for ventilation studies and is widely used in clinics around the world.

Benefits of Technegas include high diagnostic accuracy, low radiation burden to patients, and easy administration. It offers advantages for scanning of COVID-19 patients, as the procedure is quick and the apparatus is single use, without recirculation. In 2021, SNMMI urged FDA to begin a fast-track review of the agent.

"We applaud the FDA for the long-awaited approval of Technegas," said SNMMI president Helen Nadel, MD, FRCPC, FSNMMI. "Technegas will offer advantages in diagnostic accuracy, workflow, and patient comfort for departments that adopt the technology and will have a large impact on those undergoing imaging for pulmonary disease."

Pulmonary embolism affects approximately 900,000 Americans per year, and more than 34 million Americans live with chronic lung disease, according to the American Lung Association.

Technegas is manufactured by Cyclomedica and is currently distributed to 54 countries worldwide.

- "Recognised standard for ventilation studies"
- "Diagnostic Accuracy"
- "Improved workflow"
- "Patient Comfort"
- "Large impact on those undergoing imaging for pulmonary disease"



https://www.snmmi.org/NewsPublications/NewsDetail.aspx?ItemNumber=45004



Technegas Launch SNMMI–Annual Conference 8-11 June 2024





A Great Week for CYC!

First annual conference since USFDA approval

SNMMI Sponsored Session: "Lung Scintigraphy in the Current Era"

) Technegas Symposium:

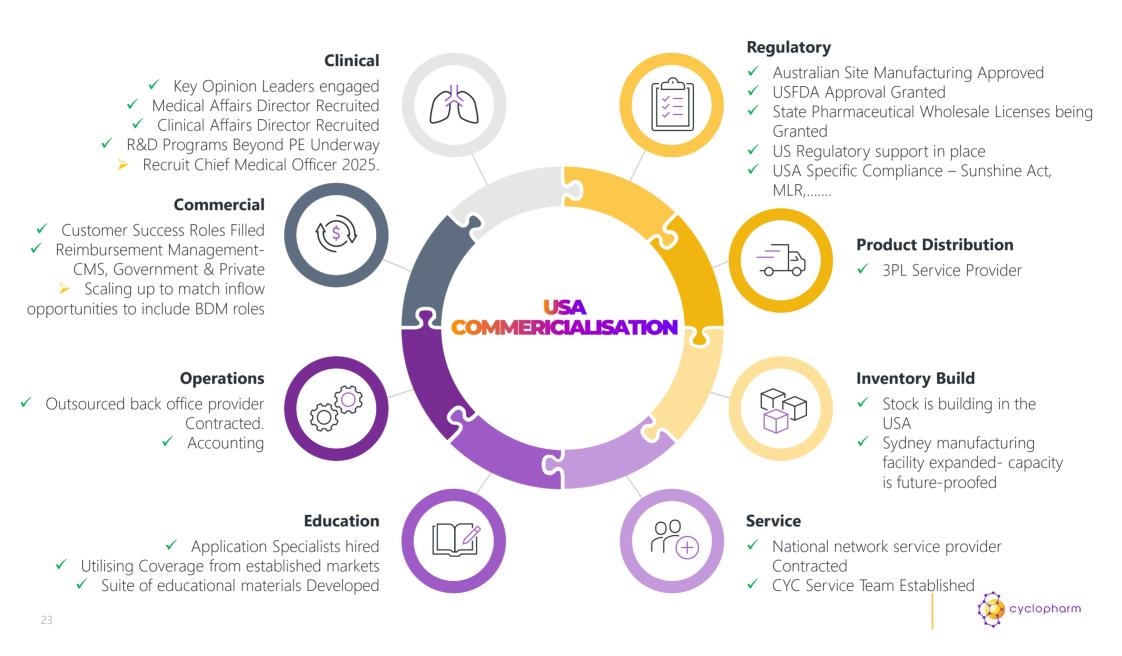
"Nuclear Pulmonology. Technegas Here Now and the Future"

US Reimbursement Announced triggering further implementations



USA Cci Pathwa

ASPIRE. INSPIRE. ILLUMINATE



CYCLOPHARM INVESTMENT CASE





Profitable and Growing MedTech

Underlying business (ex-USA) is cash positive



First in Class Established Gold Standard

Proprietary product sales to 65 countries with over 4.8 million patient procedures to date

Clinical Agent of Choice referenced by name in multiple clinical guidelines



USFDA Approval Granted

Set to quadruple the size of the existing PE business, based on significant existing demand

> Further leverage penetration into the CTPA market

Reimbursement Granted from 1 July 2024



Recurring Revenue

From single patient consumables Similar to an annuity model



Technegas Product expansion

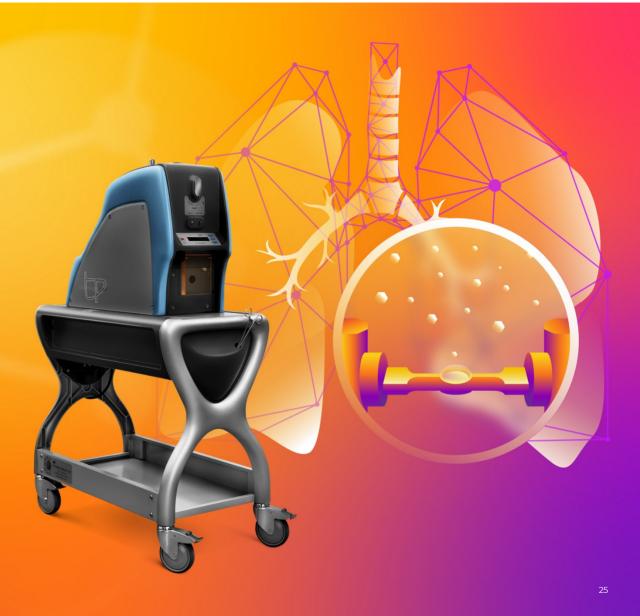
Indications Beyond PE into chronic respiratory disease management in large markets such as asthma, COPD and lunch cancer could deliver exponential growth

Market Development





Questions





Presentation Attachments

- ⁰¹ Cyclopharm Financials FY 2023
- 02 Canada Case Study
- 03 USA Pipeline
- 04 Competitive Product & Technology Comparison
- 05 Technegas in Recent Literature



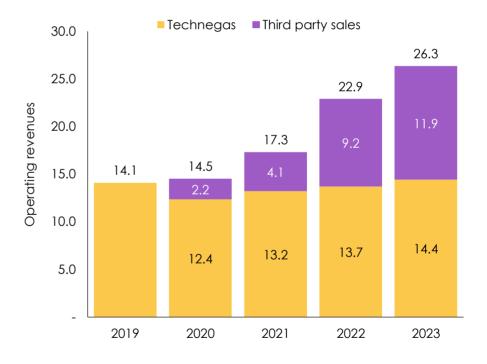
2023 Trading Highlights and Underlying Business

An established global nuclear medicine company

Cyclopharm 2023 Trading Highlights

Technegas	Sales increased 5.6% to \$14.4m
Third Party Distribution	\$11.9m of third-party distribution revenue, an increase of 29.3%
Regulatory Renewals	All regulatory renewals in existing 64 country markets maintained
Indication Expansion	Continued progress in developing 'Beyond PE' clinical applications providing significant, long-term growth opportunities for Technegas
USFDA	Approval received on 29 September 2023

Cyclopharm operating revenues over time



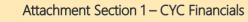


Attachment Section 1 – CYC Financials



2023 Financial Highlights

Sales Revenue	\$26.34 million - an increase of 15.1%
Third Party Distribution	\$11.91 million of third-party distribution revenue, an increase of 29.3%
Net Loss After Tax	\$4.70 million loss including US-FDA related expenses
USFDA Expenses	\$3.49 million
Reversal of impairment	\$3.16 million reversal of impairment to the cyclotron facility
Dividends	FY23 total dividends at 0.5 cps, no final dividend declared
Balance Sheet	\$11.73 million of cash reserves as @ 31 December 2023







2023 Operating Highlights

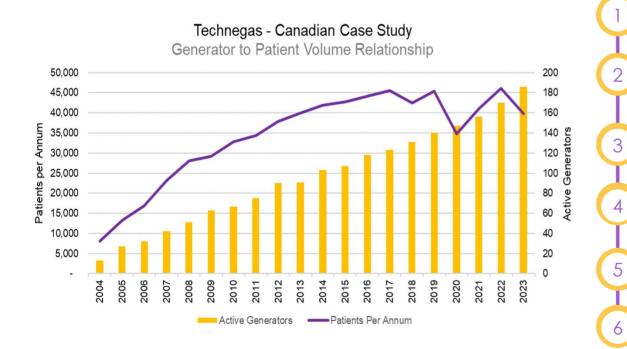
Technegas	Sales increased 5.6% to \$14.43 m
Third Party Distribution	\$11.91 million of third-party distribution revenue, , an increase of 29.3%
Regulatory Renewals	All regulatory renewals in existing 64 country markets maintained
Indication Expansion	Continued progress in developing 'Beyond PE' clinical applications providing significant, long- term growth opportunities for Technegas
USFDA	Approval received on 29 September 2023



Attachment Section 1 – CYC Financials

Track Record - Rapid adoption of Technegas®

The Canadian Case Study - a strong indicator of USA acceptance



Attachment Section 2 – Canadian Case Study

Canada is Cyclopharm's largest single country market to date

Technegas® is market leader for diagnosing PE and is nearing 100% nuclear medicine market share

Xe-133 rapidly displaced by early adopters

Close correlation with the number of active generators and annual consumable sales

Market launch initiated province by province, leveraging off pilot sites

Patient volumes continue to recover post COVID (to include temporary gains in 2022 from the global CT contrast media shortage) with further conversion of additional lower volume sites in 2023

US Customer Demand Established

136 Proposals and Contracts representing over 400+ locations as @ 6 May 2024

- Over 420 expressions of interest already received
- 6 Technegas systems have been installed and are delivering Revenue; 6 further sites under contract
- Additional 40 sites linked to the first 12 locations under contract

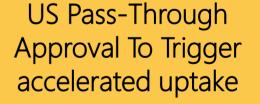
Strong pipeline of further rollout opportunities with 136 Proposals and Contracts issued

- 10 contracts in review stage: 15 installations with potential for a further 23 linked sites
- 6 contracts in committee stage: 9 initial installations with potential 28 additional sites
- 103 Issued proposals: contracts in early discussions connected to ~ 50 additional affiliated sites
- 15 proposals provided to the Veterans Administration Healthcare and Military Hospital Systems
- 18 other opportunities pending outcome of Pass-Through Status from CMS: 22 locations

Pass-Through decision received will allow Technegas to be fully reimbursed

Targeting over 300 generators placed by 31 December 2025

Attachment Section 3 – USA Pipeline





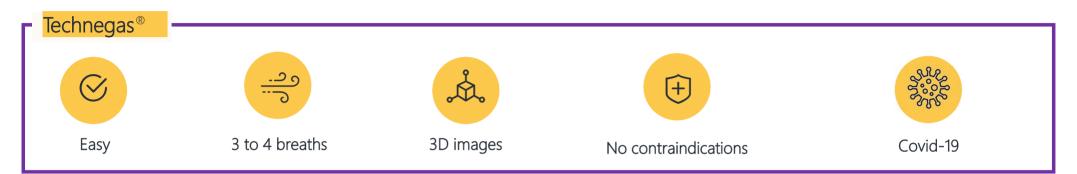
2

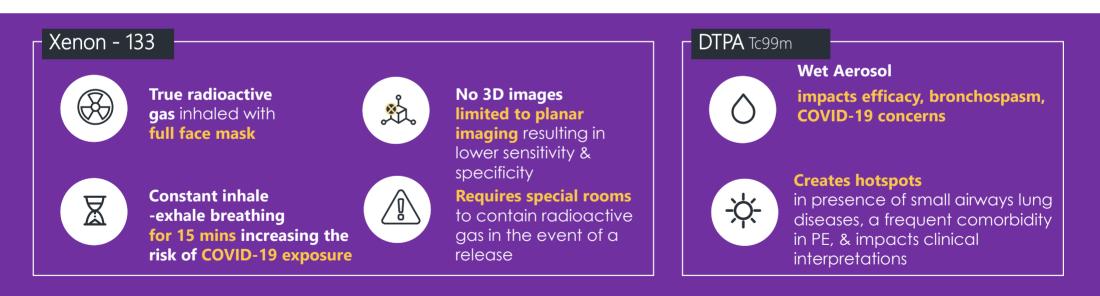
3

4

5

Nuclear Ventilation Imaging Agent Comparison

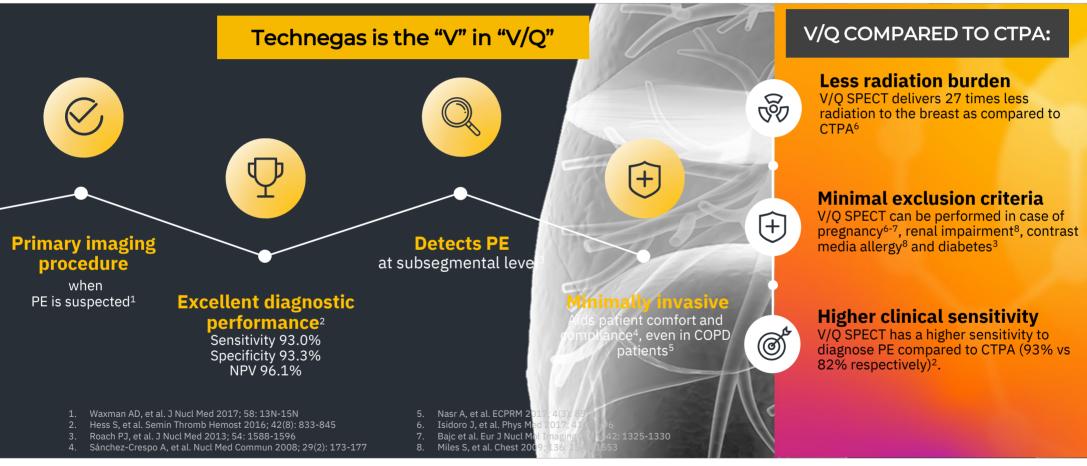






Attachment Section 4 – Competitive Produce Comparision

Diagnosing Pulmonary Embolism with V/Q SPECT vs CTPA







33

Diagnosing Pulmonary Embolism: V/Q SPECT +/- CT vs CTPA

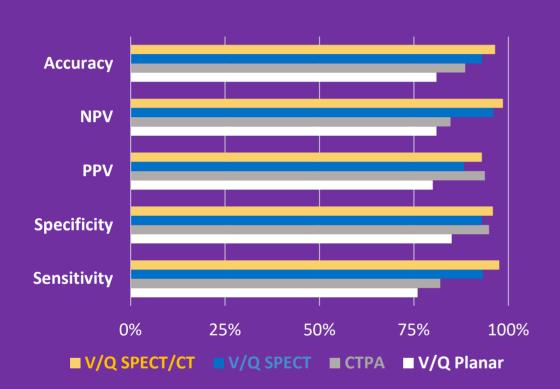


Table: Diagnostic ability of V/Q SPECT/CT¹, V/Q SPECT¹, CTPA¹ and V/Q Planar² to detect PE (adapted from Hess and al, 2016¹ and from Reinartz et al, 2004²)

V/Q SPECT and V/Q SPECT/CT have shown that V/Q SPECT/CT is **superior** in most clinical settings with better overall diagnostic performance¹.

In situation of acute PE, chronic PE pregnancy, paediatrics and the COPD population, V/Q SPECT, with or without lowdose CT, can be considered as a first-line investigation to detect PE^3 due to:



Its higher accuracy, sensitivity and negative predictive value when compared to CTPA³

Its low radiation and no adverse reactions³

1. Hess S, et al. Semin Thromb Hemost 2016; 42(8): 833-845 2. Reinartz P, et al. J Nucl Med 2004; 45: 1501-1508 3. Leblanc M, et al. CANM guidelines; Nov 2018: www.canm-acmn.ca/guidelines

Technegas in the recent literature –

- 1. 2019; 28(152): pii: 1801111
- 2. volume reduction (ELVR) with endobronchial valves in severe COPD. Clin Respir J 2019; [Epub ahead of print].
- Kjellberg M, et al. Ten-year-old children with a history of bronchopulmonary dysplasia 3. have regional abnormalities in ventilation perfusion matching. Pediatric Pulmonol 2019; 54(5): 602-609
- Paludan JPD, et al. Improvement in image guality of Tc-99m-based ventilation/perfusion 4. single-photon emission computed tomography in patients with chronic obstructive pulmonary disease through pretest continuous positive airway pressure treatment. World 16. J Nucl Med 2019; 18(2): 185-186
- Ling T, et al. Ventilation/perfusion SPECT/CT in patients with severe and rigid scoliosis: An 5. 2019: 176: 97-102
- 6. Farrow CE, et al. SPECT Ventilation imaging in asthma. Semin Nucl Med 2019; 49(1): 11-15
- Sanchez-Crespo A, et al. Lung VQ SPECT in infants and children with nonembolic chronic pulmonary disorders. Semin Nucl Med 2019; 49(1): 37-46
- Bajc M, et al. Ventilation/Perfusion SPECT Imaging Diagnosing other cardiopulmonary 8. diseases beyond PE. Semin Nucl Med 2019; 49(1): 4-10
- Sanchez-Crespo A, et al. Lung scintigraphy in the assessment of aerosol deposition and 9. clearance. Semin Nucl Med 2019; 49(1): 47-57
- 10. Bailey DL, et al. V/Q SPECT Normal Values for Lobar Function and Comparison With CT 21. Le Roux, et al, Lung Scintigraphy for Pulmonary Embolism Diagnosis in COVID-19 Patients: Volumes. Semin Nucl Med 2019; 49(1): 58-61
- 11. Lawrence NC, et al. Ventilation perfusion single photon emission computed tomography: 22. Referral practices and diagnosis of acute pulmonary embolism in the guaternary clinical setting. J Med Imaging Radiat Oncol 2018; 62(6): 777-780.

- King GG, et al. Dismantling the pathophysiology of asthma using imaging. Eur Respir Rev 12. Dimastromatteo J, et al. Molecular imaging of pulmonary diseases. Respir Res 2018; 19(1): 17
- Yang L, et al. Changes in ventilation and perfusion following lower lobe endoscopic lung 13. Jögi J, et al. Diagnosing and grading heart failure with tomographic perfusion lung scintigraphy: validation with right heart catheterization. ESC Heart Fail 2018; 5(5): 902-910
 - 14. Farrow CE, et al. Peripheral ventilation heterogeneity determines the extent of bronchoconstriction in asthma. J Appl Physiol (1985). 2017; 123(5): 1188-1194
 - 15. Cheimariotis GA, et al. Automatic lung segmentation in functional SPECT images using active shape models trained on reference lung shapes from CT. Ann Nucl Med. 2017; 10: 25-30
 - Bajc M et al. Identifying the heterogeneity of COPD by V/P SPECT: a new tool for improving the diagnosis of parenchymal defects and grading the severity of small airways disease. Int J Chron Obstruct Pulmon Dis 2017; 12: 1579-1587
- evaluation by relationship to spinal deformity and lung function. Clin Neurol Neurosurg 17. Nasr A, et al. Ventilation defect typical for COPD is frequent among patients suspected for pulmonary embolism but does not prevent the diagnosis of PE by V/P SPECT. EC Pulmonology and Respiratory Medicine. 2017; 4(3): 85-91
 - 18. Provost K, et al. Reproducibility of lobar perfusion and ventilation quantification using SPECT/CT segmentation software in lung cancer patients. J Nucl Med Technol 2017; 45(3): 185-192
 - 19. El-Barhoun EN, et al. Reproducibility of a semi-quantitative lobar pulmonary ventilation and perfusion technique using SPET and CT. Hell J Nucl Med 2017; 20(1): 71-75
 - 20. Wechalekar K, et al. Pre-surgical Evaluation of Lung Function Semin Nucl Med 2019; 49(1): 22-30
 - A Multicenter Study, J Nuc Med July 2022, 63 (7) 1070-1074
 - Elojeimy S, et al., Overview of the Novel and Improved Pulmonary Ventilation-Perfusion Imaging Applications in the Era of SPECT/CT, AJR Am J Roentgenol 2016; 207(6): 1307-1315