

Macquarie Capital Emerging Leaders Conference

19 June 2024

James McBrayer CEO & Managing Director

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



Highlights since Last Year's Macquarie Conference

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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

Board renewal complete – skills in place for the next phase of growth

Secured adjacent Sydney manufacturing spacemanufacturing capacity is future-proofed

Fully funded to deliver USA growth targets – recent \$20m capital raise with additional SPP closing 21 June

US reimbursement awarded to Technegas last week – accelerating installation



Technegas Overview



Technegas[®] around the world



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



) 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

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Overview of the US market opportunity

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

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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 **US\$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

Cyclopharm 🥸

* Revenue and patient volume projections based on internal company analysi

**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 Fconomic 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)

- **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

Beyond PE: Blue Sky





Indication Expansion – The Importance, Urgency & Opportunity Beyond PE

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Lung Disease in 2019 accounted for 6 million deaths worldwide (12% of all deaths)

COPD and Lower Respiratory Infections and Lung Cancer will be the 3rd, 4th and 6th 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

I. 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

>US\$1.1bn global market size*



Preoperative

assessment of

lung resection

candidates with

borderline

pulmonary

reserve^{4,5,6,20}



Planning radiation therapy to target tumors while preserving functional lung zones⁶⁻⁷

Advanced approach to phenotyping chronic airways diseases such as asthma and COPD and identifying patient likely to respond to treatment⁸⁻¹⁰

Use of alternate isotopes to make GalligasTM for PET Molecular Imaging^{14, 15}

Co Gallium

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

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 Pulmonol 2018; 25(1): 48-53 11.

Preoperative

assessment of

homogeneous

Endoscopic Lung

(ELVR)

candidates^{3,17,}

- Mortensen J, Berg RMG. Semin Nucl Med 2019; 49(1): 16-21 12.
- Wechalekar K, et al. Semin Nucl Med 2019; 49(1): 22-30 Elojeimy S, et al. AJR Am J Roentgenol 2016; 207(6): 1307-1315
- 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
- 9.
- 10. Bajc M, et al.. Int J Chron Obstruct Pulm Dis 2017; 12: 1579-17. 1587
 - Verger A, et al. Eur J Nucl Med Mol Imaging 2020; 47(11): 2709-2710
 - Baloul A, et el, Eur J Nuc Med Mol Imaging 2021; 48(8):2525- 20. 2530
- 13. 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
- Jögi J, et al. Int J Chron Obstruct Pulmon Dis 2014; 10: 25-30 16. Ozguven, S, et al; Mol Imag Rad Therapy; 2021: 30:28-33

Tee, et al; Intrevent Pulmonology; 2021, DOI 10.1159/000515336

Le Roux, et al, J Nuc Med July 2022, 63 (7) 1070-1074 18. Berhouse, et al, Respiratory Research 2022; 23: 296 19. Ridiadia, et al, ATS Abstract; doi.org/10.1164/ajrccmconference.2022.205.1_MeetingAbstracts.A2554

- Venegas C, et al, ATS Abstract; doi.org/10.1164/airccmconference.2022.205.1
- 22. Le Roux, et al; Clinical Nuclear Medicine, 27 Oct 2022; doi: 10.1097/RLU.000000000004426



Beyond Pulmonary Embolism CYC Initiatives

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



- 1. 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

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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*
		Timeline		
	Beyond Pulmonary Embolism:			
	beyond ronnondry Embolism.	Global		Market size
3	Horizon 3 – Expanding Beyond PE Globally into new indications such as asthma and chronic obstructive pulmonary disease	Slobal > 8 years		Market size US\$900m



*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)

- 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"





Technegas Launch SNMMI–Annual Conference 8-11 June 2024





A Great Week for CYC!

First annual conference since USFDA approval

US Reimbursement Announced triggering further implementations

SNMMI Sponsored Session:

"Lung Scintigraphy in the Current Era"

) Technegas Symposium:

"Nuclear Pulmonology. Technegas Here Now and the Future"

CYCLOPHARM INVESTMENT CASE

TECHNEGAS



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 already underway





Questions





Presentation Attachments

- Ol Cyclopharm Financials FY 2023
- O2 Canada Case Study
- ⁰³ USA Pipeline

- 04 Competitive Product Comparison
- 05 **USA Commercialisation Pathway**



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







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



Track Record - Rapid adoption of Technegas®

The Canadian Case Study - a strong indicator of USA acceptance



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

US Pass-Through Approval To Trigger accelerated uptake

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

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Nuclear Ventilation Imaging Agent Comparison







Diagnosing Pulmonary Embolism with V/Q SPECT vs CTPA



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Attachment Section 4 – Competitive Produce Comparision

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 PE³ due to:



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

Its low radiation and no adverse reactions³

2. Reinartz P, et al. J Nucl Med 2004; 45: 1501-1508



Attachment Section 5 – USA Commercialisation Pathway