

## Bell Potter Healthcare Conference

James McBrayer CEO & Managing Director



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.



#### Cyclopharm

USE

personal

5

- Step change in US demand for Technegas<sup>TM</sup> following successful reimbursement in the United States through the Center for Medicare and Medicaid Services (CMS) resulting in an 82% Increase in pipeline opportunities since July 2024.
  - Technegas installed at **9 USA sites** with another **14 at implementation** stage. Signed contracts extending to a total of **87** potential installations. In total, **910** site potential.
    - **Consistent revenue** from Technegas<sup>™</sup> sales during first half 2024 from the company's established markets in 64 countries globally.
    - Robust ongoing revenue from third-party recurring consumable sales up on prior corresponding period (pcp).
    - Cyclopharm's **Beyond PE strategy** to expand the use of Technegas<sup>™</sup> validated by new and emerging clinical evidence.
    - Successful completion of a \$20 million **Capital Raising in May 2024**, followed by an over-subscribed \$4 million Share Purchase Plan in June 2024 underscoring support from shareholders for the accelerated US commercial roll out program.
- Net cash at the half year of \$27.56 million positioning the company to deliver on CYC's growth strategy.
- Interim Agreement Signed with the **Veterans Administration** reaching 120 nuclear medicine departments + First Department of Defense P.O. received.





## Technegas Overview



## Technegas around the world



Technegas was introduced clinically **in** 1986



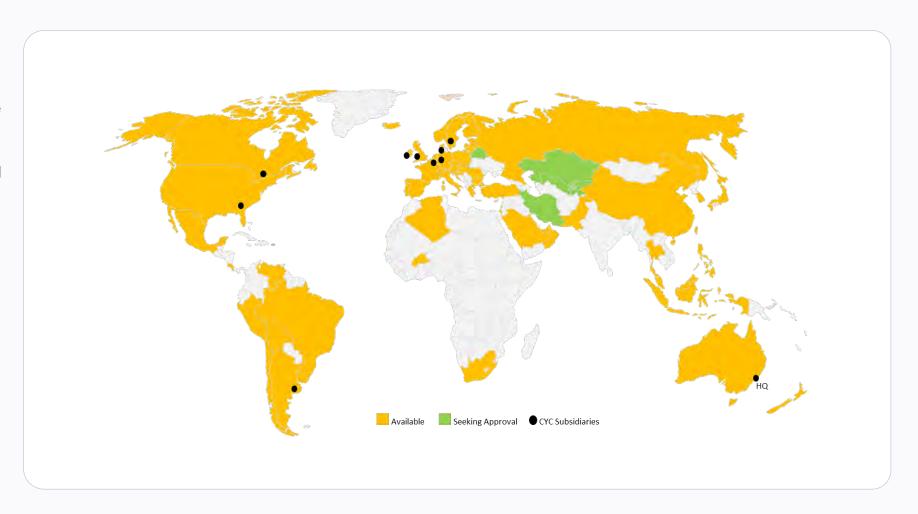
Technegas generators are available now in **66\* countries** via a combination of direct and distributor sales models



Over 4.9 million patient procedures to date



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



### Technegas Aerosol for Inhalation

#### Functional Imaging showing where Oxygen is distributed within the lung

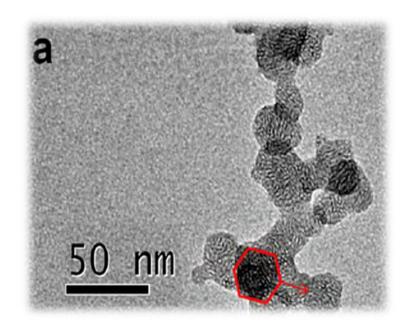


Image source: Blanc-Béguin et al, 2020

Technegas is composed of 99mTc cores encapsulated within layers of graphite to form individual hexagonal plate-like particles.<sup>1-2</sup>

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

Its very small particle size (>80 less than 1 micron or 1,000 nm<sup>4</sup>) allows distribution into the lungs like a gas and deposited in alveoli by diffusion, providing for Planar, SPECT and SPECT/CT ventilation imaging.



#### **How big is a nanometre?**

- o 100,000 nm = Sheet of paper thickness
- o 75,000 nm = Human hair thickness
- o 7,000 nm = Red Blood Cell diameter
- o 2.5 nm = DNA strand diameter



- 2. Blanc-Béguin F, et al. Mol Imaging Biol 2020;
- 3. Lemb M, et al. Eur J Nucl Med 1993; 20(576-579)
- 4. Pharmaceutics 2023, 15(4), 1108; https://doi.org/10.3390/pharmaceutics15041108



## Technegas – Proven Technology

- Technegas is the nuclear medicine functional ventilation imaging agent of choice Technegas shows true functional ventilation with operational and clinical advantages over competitive agents.
- Technegas unlocks the clinical potential of Nuclear Medicine Imaging by leveraging state of the art techniques (SPECT, SPECT/CT & analytical software).
  - Nuclear Medicine delivers superior clinical outcomes in diagnosing PE at exponentially lower radiation dose than CTPA.
- Nuclear medicine with Technegas paired with analytical software, is unlocking a new era in lung imaging.



For personal



## Technegas Technology

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

Technegas comprises the following components



#### PER PATIENT CONSUMABLES

**TECHNEGAS® SYSTEM PACK** 

Technegas (Crucible)



Technegas Patient Administration Set (PAS)











**SUPPORT** 

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



## Technegas USA Expansion

#### 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

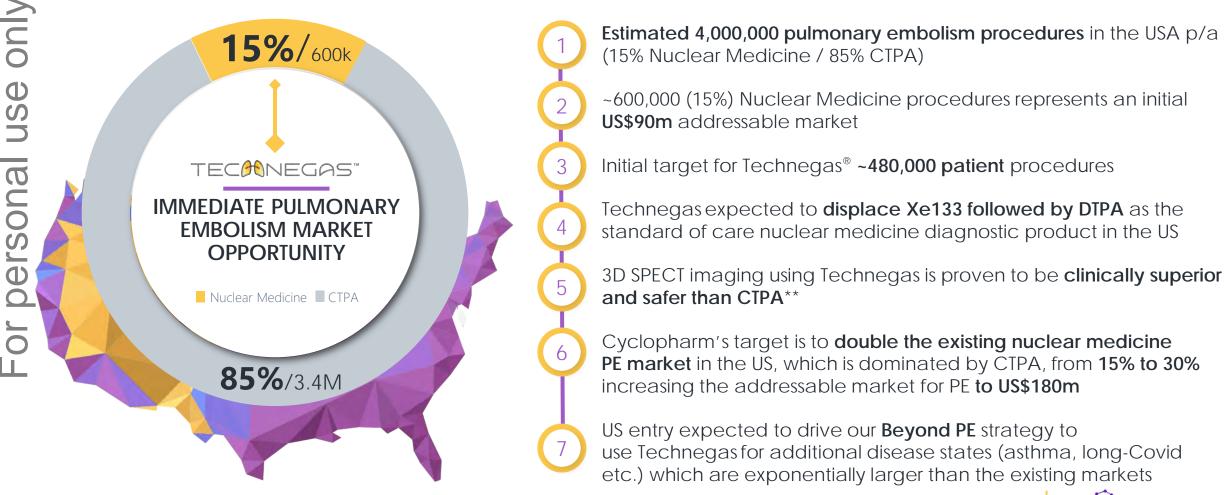
------USFDA APPROVED INDICATIONS AND USAGE------

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

## Overview of the US market opportunity

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



<sup>\*</sup> Revenue and patient volume projections based on internal company analysis



<sup>\*\*</sup>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 2.8

## US Customer Demand Accelerating

82% increase in pipeline opportunities following CMS approval from 1 July

US Technegas™ Sales Pipeline: 14 Nov 2024	Initial Installation*	Additional Sites+	Total Potential Installations
Requested Proposal	287	50	337
Internal Committee	31	115	146
Contract Review	67	273	340
Implementation	14	14	28
Installed and Imaging	9	50	59
Total	408	502	910

<sup>\*</sup>Initial Installation = Locations that are engaged for Technegas System installation

- Recurring revenue generating from 9
  Technegas installed systems 14 additional sites at implementation stage
- Contracts in place extending up to 87 potential installations
- 67 installation deals in contract review extending to a total potential 340 locations
- 31 installations at Internal Committee stage extending to 146 potential installations
- 287 installation potential from customer requested proposal representing a total potential of 337 installations
- 6 Current engagement reaching an additional potential **901** installations

<sup>+</sup>Additional Sites = Sites that are contractually linked to initial installations on a secondary installation basis because of size, customer priority or buying group affiliation

## Hospital Pathway To Technegas Clinical Use

~ 6-8 Month Process from New Product Approval to Installation

USE **Engagement &** Administration **New Product** IT Integration **Facilities** Clinical **Approval Approval** na **Approval** • RFQ • Financial Approval Locating optimal **IT Systems Address:**  Pharmacy & PROCESS~ Nuclear Technegas **Therapeutics** pers First Meeting with **System Location**  Legal Approval Procurement Committee clinical leadership **Process** and departmental • IT Approval Electrical Formulary Hospital Staff Reimbursement Installation Committee review Regulatory **Protocols** • Service Engineer May require • Radiation Safety Compliance **Enterprise Level** Registration Imaging Committee Review • Enterprise Approval **Protocols** 14/ 337 # SITES 146 340 28 INTERNAL

**CONTRACTING** 

#### External Provider Engagement

- Pharmacy Engagement
- Pharmacy Engagement
- Argon Gas Supply



#### **Training**

- Installation to include IQ/OQ
- User Training
- Invoicing

59

**IMPLEMENTATION** 

**IMAGING** 



**STAGE** 

**RFQ** 

**REVIEW** 



## Technegas in the USA Leveraging a Strong Foundation

### 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"



## WHAT THE GUIDELINES SAY SABOUT TECHNEGAS:

Endorsed by the guidelines from the European<sup>1-2</sup> and the Canadian<sup>3</sup> 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



### Nuclear medicine published Survey

#### Technegas - the ventilation imaging agent of choice in established markets

#### ORIGINAL ARTICLE

#### Performance and Interpretation of Lung Scintigraphy

An Evaluation of Current Practices in Australia, Canada, France, Germany, and United States

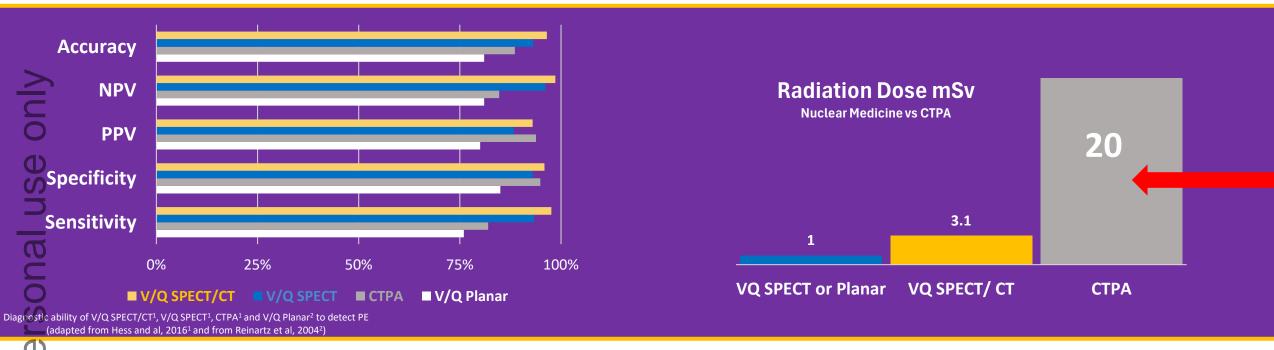
Romain Le Pennec, MD,\* Wolfgang Schaefer, MD, PhD,† Mark Tulchinsky, MD,‡
François Lamoureux, MD,§ Paul Roach, MD, PhD,|| Christoph Rischpler, MD,¶
Katherine Zukotynski, MD, PhD,\*\* Christopher O'Brien, MD PhD,†† Declan Murphy, MD,||
Pierre Pascal, MD,‡‡ Grégoire Le Gal, MD, PhD,§§
Pierre-Yves Salaun, MD, PhD,\* and Pierre-Yves Le Roux, MD, PhD\*

- "The most striking result of this survey is the discrepancy in practices in the United States compared with other countries.....
- "The different physical physiological properties of ventilation agents may explain the differences in the choice of acquisition protocols (in the USA)......
- "The recent FDA approval of 99m Tc-Technegas may change practices....."

Five-country survey conducted before Technegas USA launch highlights that:

- 85% of nuclear medicine ventilation studies ex-USA are performed using Technegas
- Xenon-133 has been displaced in all markets where Technegas is available
- SPECT imaging used in >95% outside the USA vs 32% in the USA
- Some USA nuclear medicine departments have not resumed ventilation imaging since COVID
- Beyond PE applications gaining traction in CTEPH, Interventional Respiratory medicine, radiation therapy planning, lung transplant & PE follow-up

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





**Peer Reviewed clinical studies** have shown that V/Q SPECT/CT is **superior** compared to CTPA across most clinical measures with better overall diagnostic performance<sup>1</sup>.



Nuclear Medicine VQ radiation dose, even combined with low dose non-contrast CT, is **exponentially lower** than CTPA

<sup>1.</sup> Hess S, et al. Semin Thromb Hemost 2016; 42(8): 833-845

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



## Understanding the US Opportunity

#### **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)
- US\$70k revenue per system per annum expected from larger sites<sup>1</sup>
- >15 yrs average life per system

- Targeting 2,000 of the 8,000 US nuclear medicine departments. 300 sites by the end of 2025.
- 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).



### Total value creation opportunity

#### Exponential Growth Opportunity Over The Next Decade

only	•	
USE	1	)
onal	2	
oerson		

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
Horizon 2 – Commence converting CTPA exams to Technegas	0 - 8 years	30%	US\$180m*

	Total long term revenue opportunity	>US\$1.1bn
<b>Horizon 3</b> – Expanding Beyond PE Globally into new indications such as asthma and chronic obstructive pulmonary disease	> 8 years	US\$900m
Beyond Pulmonary Embolism:	Timeline Global	Market size
to Technegas	0 - 8 years :	30% US\$180m*





## USA Commercialisation Pathway

#### **Clinical**

- ✓ Key Opinion Leaders engaged
- Medical Affairs Director Recruited
- ✓ Clinical Affairs Director Recruited
- ✓ R&D Programs Beyond PE Underway
  - Recruit Chief Medical Officer 2025.

#### **Commercial**

Customer Success Roles Filled Reimbursement Management-CMS, Government & Private

✓ Scaling up to match inflow pportunities to include BDM roles



#### Regulatory

- Australian Site Manufacturing Approved
- **USFDA** Approval Granted
- State Pharmaceutical Wholesale Licenses being Granted
- ✓ US Regulatory support in place
- USA Specific Compliance Sunshine Act, MLR,.....



#### **Product Distribution**

3PL Service Provider

#### **Operations**

Outsourced back office provider Contracted.

✓ Accounting







#### **Inventory Build**

- ✓ Stock is building in the USA
- Sydney manufacturing facility expanded- capacity is future-proofed

#### **Education**

- ✓ Application Specialists hired
- Utilising Coverage from established markets
  - ✓ Suite of educational materials Developed



#### **Service**

- ✓ National network service provider Contracted
- CYC Service Team Established



## Beyond PE: Blue Sky





Indication Expansion – The Importance, Urgency & Opportunity Beyond PE



1 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 3<sup>rd</sup>, 4<sup>th</sup> and 6<sup>th</sup> 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 costs**<sup>2</sup>"

4) Misdiagnosis can be **fatal** 

5 Exponential Growth Potential for Technegas

1. 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\*



Diagnosis and follow-up of **Pulmonary Embolism** and **Pulmonary** 



Preoperative assessment of homogeneous **Endoscopic Lung Volume Reduction** (ELVR) candidates<sup>3,17,</sup>



Preoperative assessment of lung resection candidates with borderline pulmonary reserve<sup>4,5,6,20</sup>



Planning radiation therapy to target tumors while preserving functional lung zones<sup>6-7</sup>



Advanced approach to phenotyping chronic airways diseases such as asthma and COPD and identifying patient likely to respond to treatment<sup>8-10</sup>



Use of alternate isotopes to make Galligas™ for PET Molecular Imaging<sup>14, 15</sup>

\*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.
- Mortensen J, Berg RMG. Semin Nucl Med 2019; 49(1): 16-21 Wechalekar K, et al. Semin Nucl Med 2019; 49(1): 22-30
- Elojeimy S, et al. AJR Am J Roentgenol 2016; 207(6): 1307-
- Eslick EM, et al. Semin Nucl Med 2019; 49(1): 31-36
- Farrow C, King GG. Semin Nucl Med 2019; 49(1): 11-15
- 10. Bajc M, et al.. Int J Chron Obstruct Pulm Dis 2017; 12: 1579- 17.
  - Verger A, et al. Eur J Nucl Med Mol Imaging 2020; 47(11):
- 12. Baloul A, et el, Eur J Nuc Med Mol Imaging 2021; 48(8):2525- 20.
- 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
- Berhouse, et al, Respiratory Research 2022; 23: 296
- 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/ajrccm-
- Le Roux, et al; Clinical Nuclear Medicine, 27 Oct 2022; doi: 10.1097/RLU.00000000000004426



#### Beyond Pulmonary Embolism CYC Initiatives

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

Hunter Medical Research Institute (Newcastle, AU): Diagnosis and response to therapy in severe asthma and COPD<sup>1</sup>

100 Patient Study \* 100% Recruited \* **Study Published**<sup>6</sup>,

Woolcock Institute (Sydney, AU): Diagnosis and response therapy in mild to moderate COPD<sup>3</sup>

44 Patient\* 100% Completed

CHUM (Montreal, CA): Early detection of COPD in asymptomatic smokers<sup>4</sup>

30 Patient Study \* 100% Recruited \* Analysis complete \* Paper submitted for publication

Dalhousie (Halifax, CA): Post-lung transplant patients

30 Patient Study \* 30% Recruited

**McMaster University Firestone Institute (Hamilton, CA):** Ventilation in lung cancer patients pre and post lung resection <sup>2;</sup> 100% Recruited \* **Study Published** bridging research initiatives with clinical applications using Technegas .

CHRONIC AIRWAY DISEASES
COPD – Asthma

PULMONARY EMBOLISM (PE)

VTE – CTEPH - PH

**McMaster University Firestone Institute (Hamilton, CA):** COVID-19 Related Lung Ventilation and Perfusion Injury<sup>5</sup> 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<sup>8</sup>. Recruitment commenced.

- 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



PATIENT MANAGEMENT & SCREENING

Response to Therapy and Personalized Medicine

**INTERVENTIONAL THERAPIES** 

LVRS, ELVR, Transplant, Lung Cancer

sonaluse







## "Ventilation Heterogeneity Is a Treatable Trait in Severe Asthma1"

 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

 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 Gibson<sup>2</sup>** 

Technegas - Applications in Patient Management and Response to Therapy



## Cyclopharm Investment Case





#### CYCLOPHARM INVESTMENT CASE

#### Outlook - By Dec 2025

300 Technegas Installations in the USA generating additional ongoing revenues



#### Profitable and Growing MedTech

nderlying business (ex-USA) is cash positive



#### First in Class

**Established Gold Standard** 

Proprietary product sales to 66 countries with over 4.9 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

Full Reimbursement Granted from 1 July 2024



#### **Recurring Revenue**

From single patient consumables

Similar to an annuity model

Generating Recurring Revenues from USA installations



#### **Technegas Product expansion**

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

> Market Development already underway



USE

personal



## Questions





## Presentation Attachments

Ol Canadian Case Study

O2 Competitive Product Comparison

O3 Competitive Imaging Technology Comparison

O4 Technegas in Recent Literature

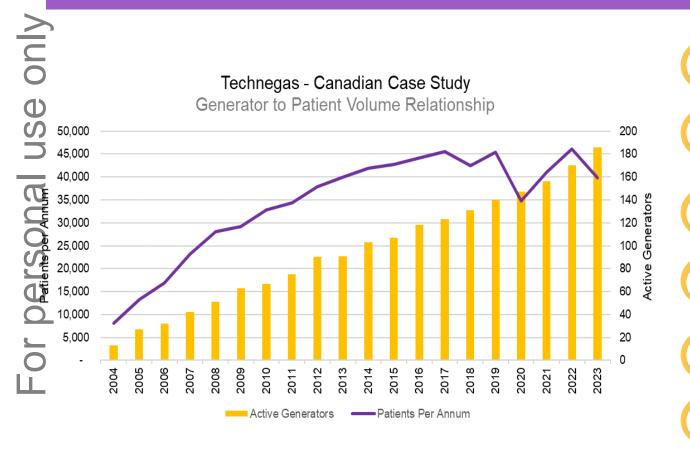
O5 Third Party Business Products

06 **2024** First Half Financials



## 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

## Nuclear Ventilation Imaging Agent Comparison

- Technegas®



Easy



3 to 4 breaths



3D images



No contraindications



Covid-19

Xenon - 133



True radioactive gas inhaled with full face mask



No 3D images limited to planar imaging resulting in lower sensitivity & specificity



Constant inhale
-exhale breathing
for 15 mins increasing the
risk of COVID-19 exposure



Requires special rooms to contain radioactive gas in the event of a release DTPA Tc99m



**Wet Aerosol** 

impacts efficacy, bronchospasm, COVID-19 concerns

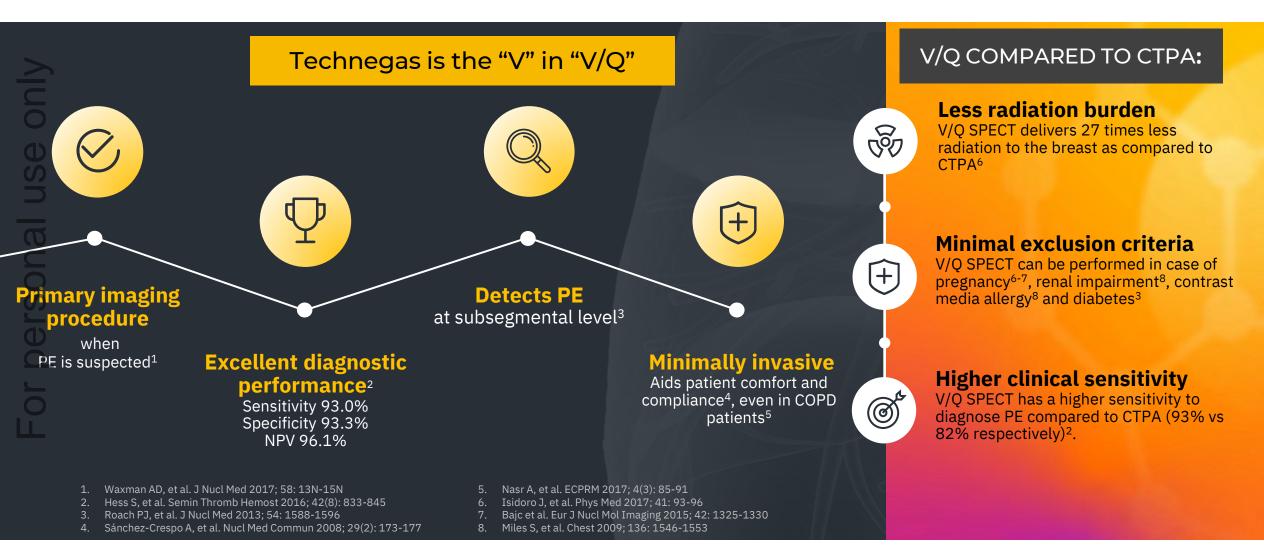


**Creates hotspots** 

in presence of small airways lung diseases, a frequent comorbidity in PE, & impacts clinical interpretations



#### Diagnosing Pulmonary Embolism with V/Q SPECT vs CTPA





## Technegas in the recent literature –

- 1. King GG, et al. Dismantling the pathophysiology of asthma using imaging. Eur Respir Rev 12. 2019; 28(152): pii: 1801111
  - Yang L, et al. Changes in ventilation and perfusion following lower lobe endoscopic lung 13. 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 have regional abnormalities in ventilation perfusion matching. Pediatric Pulmonology 2019; 54(5): 602-609
  - Paludan JPD, et al. Improvement in image quality of Tc-99m-based ventilation/perfusion 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 evaluation by relationship to spinal deformity and lung function. Clin Neurol Neurosurg 2019; 176: 97-102
  - 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 diseases beyond PE. Semin Nucl Med 2019; 49(1): 4-10
- 9. Sanchez-Crespo A, et al. Lung scintigraphy in the assessment of aerosol deposition and 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 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 quaternary clinical setting. J Med Imaging Radiat Oncol 2018; 62(6): 777-780.

- 12. Dimastromatteo J, et al. Molecular imaging of pulmonary diseases. Respir Res 2018; 19(1): 17
- 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
- .7. 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
- 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
- 21. Le Roux, et al, Lung Scintigraphy for Pulmonary Embolism Diagnosis in COVID-19 Patients: 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



## Third-Party Products Overview

**Attachment Section 5-**



## Overview of Third-Party Products

#### Leveraging our Sales, Service & Regulatory Footprint in our Direct Markets

Third-Party Products comprise the following components







- Direct sales and Service in 17
   out of 66 approved markets
- Equipment sales tender / project driven (non-linear)
- Razor Razorblade Model business model with consumables linked to equipment sales
- O Pharmaceutical wholesale licenses required



## 2024 First Half Financial Results

**Attachment Section 6 -**



Sales Revenue	\$12.27m - (pcp \$14.91m)
• Technegas	Sales consistent at \$7.46m – expected result excluding one-off gains pcp
<ul> <li>Third Party         Distribution     </li> </ul>	\$4.81m of third-party distribution revenue, a decrease of (33.8%) Consumable and Service Revenue up 4% pcp
1H 2024 pcp Significant items	<ol> <li>2022 Technegas Order fulfilled in Jan 2023 = \$0.31m</li> <li>1H 2023 Equipment Project = \$3.1m</li> <li>Litigation Outcome gain = \$0.57m</li> </ol>
Net Loss After Tax	\$7.51m loss – (pcp \$2.90m loss)
Balance Sheet	\$27.56m of cash reserves as @ 30 June 2024



# or personal

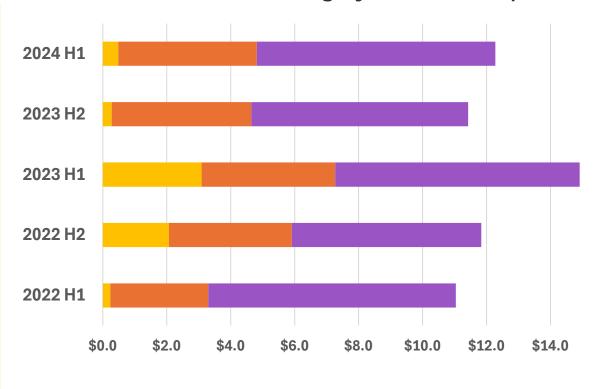
#### H1 2024 Trading Overview and Underlying Business

#### An established global nuclear medicine company

#### Cyclopharm H1 2024 Trading Highlights

Technegas	Sales consistent at \$7.46m compared to pcp
Third Party Distribution	\$4.81m of third-party distribution revenue, impacted by timing of equipment sales
Regulatory Renewals	All regulatory renewals in existing 66 country markets maintained
Indication Expansion	Continued progress in developing 'Beyond PE' clinical applications providing significant, long-term growth opportunities for Technegas
CMS	USA Reimbursement received

#### Half Year Sales Trending by Product Group



■ Third-Party Equipment ■ Third-Party Consumables & Service ■ Technegas

