

September 2025

POLAREAN Breathtaking Images

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Platform in Use, Growing, and Being Reimbursed



- FDA Approved
 - XENOVIEW[®] is the first and only FDA-approved MRI agent for functional lung imaging, supported by a new reimbursement code
- ✓ Usage is Growing
 - Current active customer sites, spanning all 3 major MRI vendors
- Reimbursement is Active
 - Clinical sites are billing and successfully receiving payments for Xenon MRI exams
- Pharma Adoption Underway
 - First pharma-sponsored multi-center, clinical trial announced, using Xenon MRI
- Deep Scientific and Clinical Validation
 - ~1,000 total publications globally on hyperpolarised MRI; over 200 clinical studies

H1 2025 Results & Market Dynamics



- Revenue: US\$0.6m (vs. US\$1.1m in H1 2024); no new system sales, but consumables +36% YoY
- Headwinds: NIH funding cuts and Medicaid reductions under OBBBA slowed US capital sales
- Cash runway: US\$7.3m at 30 June 2025; supports operations through Q2 2026
- Commercial activity: Significant increase in customer engagement, outstanding quotes >US\$21m (up >650% YoY)

Strategic & Clinical Progress



TAM expansion:

- Pediatric approval broadened access to +1m patients
- Redesigned gas exchange trial; smaller, faster, lower cost (US\$4.0–4.5m vs. US\$9–11m)
- OUS expansion
- Philips partnership: Advancing approval of XENOVIEW[®] Chest Coil on Philips 3T MRI systems
- Pharma collaborations: VIDA partnership + growing pipeline of pharma
- Scientific validation: Over 30 Xenon MRI presentations at ATS; recognition of Dr. Driehuys with ATS award, and a number of important papers published

Outlook and Guidance

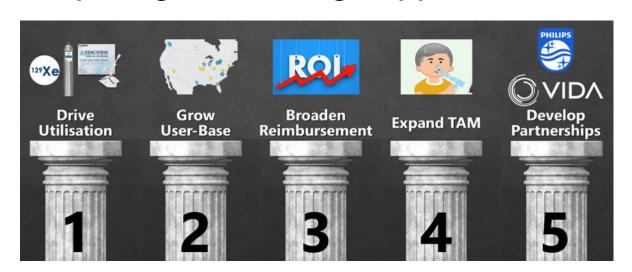


- Revised 2025 revenue guidance: US\$2.5m-3.5m (prior US\$5-6m)
- Backlog: US\$1.2m delivered/on order since 30 June 2025
- 2026 growth: Anticipated return to US\$5–6m revenue trajectory

Profitability path: Achievable post-gas exchange approval with ~US\$20m

incremental investment

5-pillar strategy focus:



Our Mission and Vision



Mission

Revolutionising pulmonary medicine through direct visualization of lung function

Vision

Optimise lung health and prevent avoidable loss by illuminating hidden disease

Detect | Guide | Monitor



The Burden Of Lung Disease



Current tools miss hidden disease

 #1 cancer killer worldwide

 >500m people worldwide suffer chronic lung disease



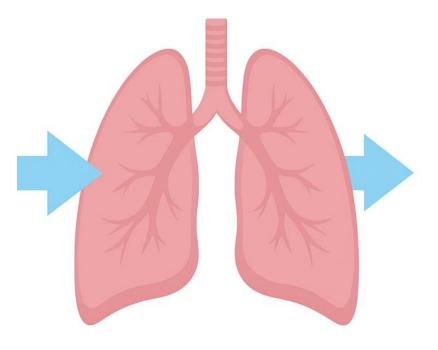




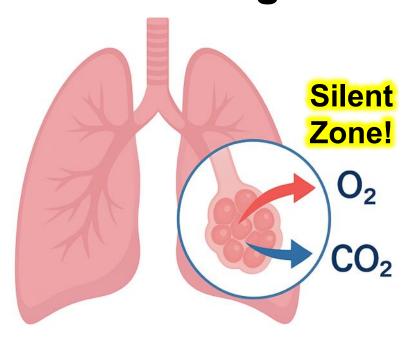
The Lungs Have Two Jobs



Ventilation



Gas Exchange



Structure vs. Function





WHAT CT CAN SEE
Upper branch lung STRUCTURE

WHAT CT CAN'T SEE

Silent Zone FUNCTION

Power and Safety of MRI – Now in the Lung POLAREAN

FDA-approved ventilation imaging, available for patients 6 years and older





Only FDA-Approved Inhaled MRI Contrast Agent



Images the smallest airways



Maps regional ventilation



Not effort-dependent

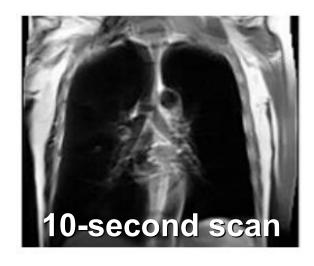


Single 10-second breath-hold for a full 3D images

From Structure to Function: Ventilation



Proton MRI (Structure)



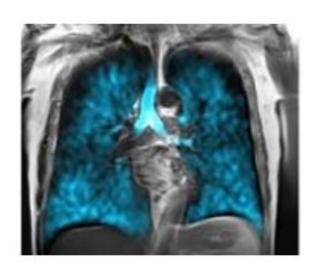
Standard greyscale anatomy

Xenon MRI (Function)



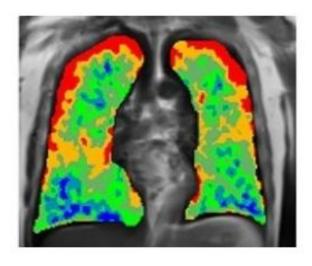
Inhaled gas distribution

Combined View



Structure + function in one image

Quantitative Analysis

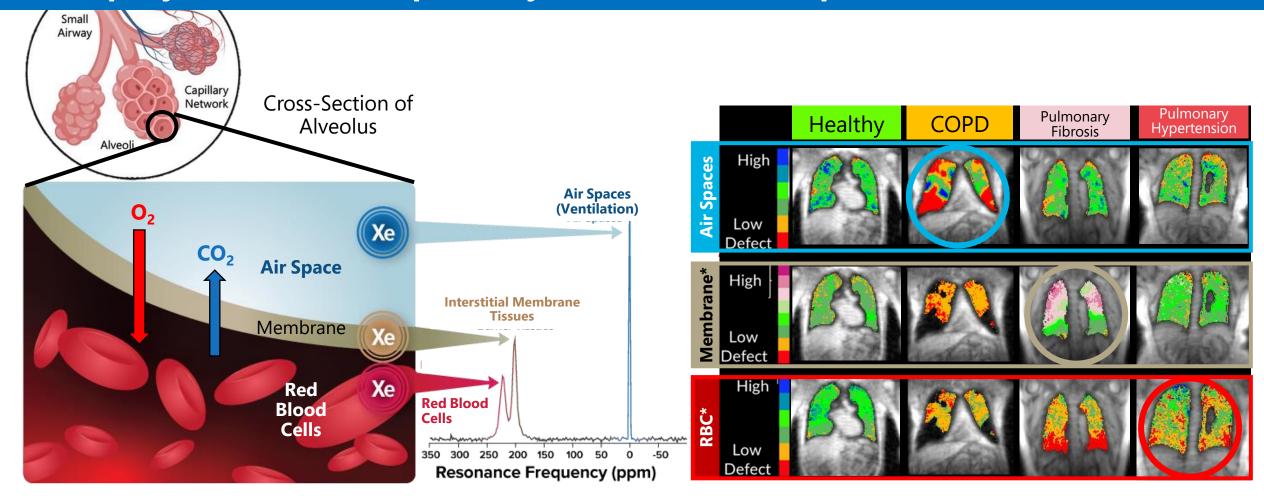


Software generates functional maps & data

Beyond Ventilation: Imaging Gas Exchange



Uniquely suited to more precisely characterize multiple diseases



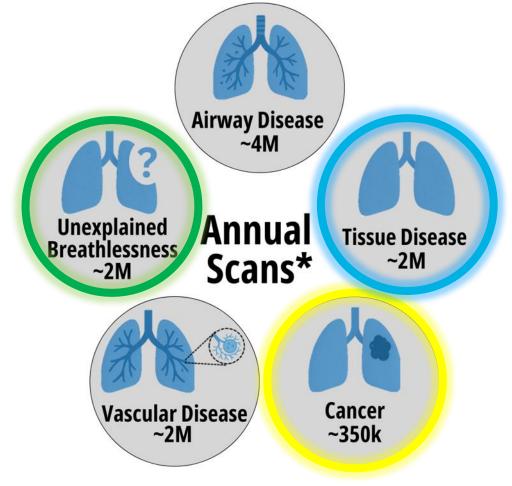
Large, Unmet Need in Lung Disease



~\$6B U.S. opportunity across five major lung conditions

- >10m annual scans in the U.S.
- Broad applications

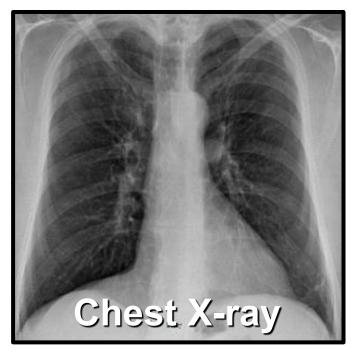
Detect | Guide | Monitor Predict

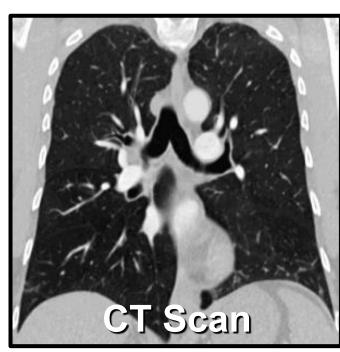


^{*}Derived by multiplying the total U.S. addressable patients (from various sources) by the Polarean.

Unexplained Breathlessness: A Hidden Danger POLAREAN

Xenon MRI reveals what other tests miss



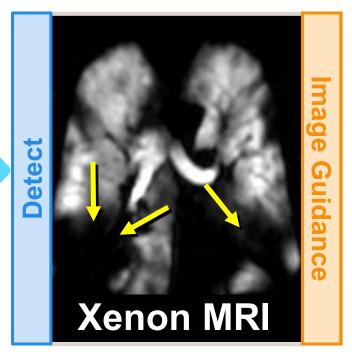


Spirometry

78% of Predicted

4 months later

Spirometry 82% of Predicted



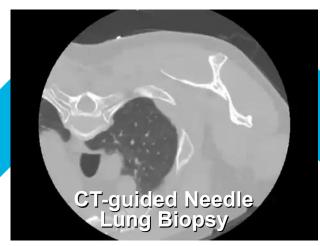
Adding Function to Lung Cancer Care



CT finds nodules. Xenon MRI reveals what to do next.

- #1 cancer killer worldwide
- 14m Americans eligible for CT screening
- Only ~10% screened
- Xenon MRI improves risk stratification/follow-up

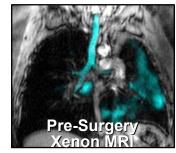




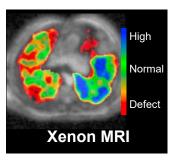


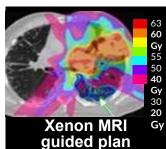
- Guides surgical planning and resection decisions
- Predicts post-op lung function and complications





- Guides targeting to spare healthy lung
- Predicts functional impact



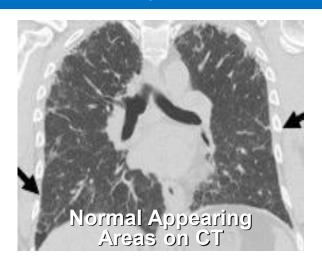


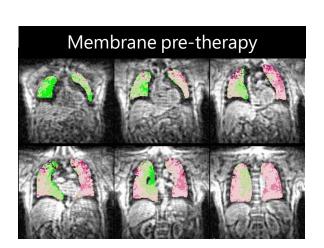
Catching Early Lung Changes Before They Become Disease

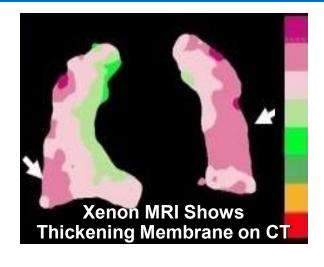


From CT abnormalities to fibrosis, Xenon MRI predicts who's at risk

- ~7% of CT screens show early abnormalities
- Current tools can't predict progression
- Xenon MRI identifies patients at risk
- Predicts and monitors therapy response









Our Solution: Xenon MRI Platform



Drug-device platform with per-patient consumable

Hospital Lab



Multi-dose Dose **Xenon Cylinder Production**

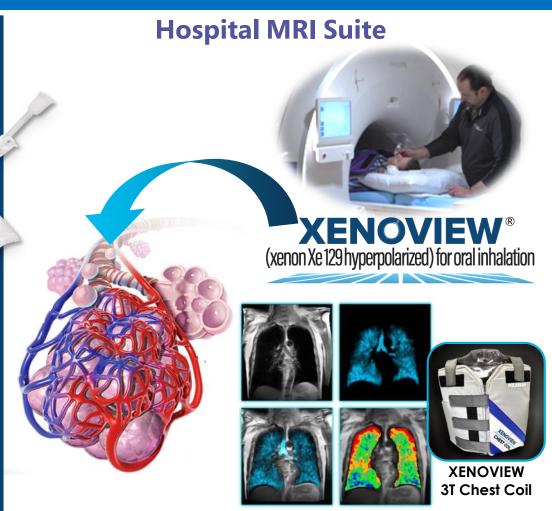


Dose Measurement **XENOVIEW® Active Dose**

4 dose

Patents Granted **Philips Partnership**





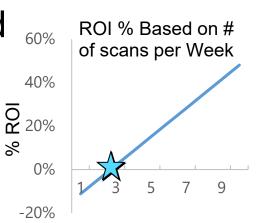
Business Model: Scalable, Recurring, Proven

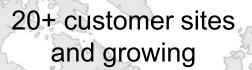


Attractive hospital ROI drives Polarean's recurring revenue

Hospital ROI Established

- U.S. reimbursement in place
- ROI at ~ 3 scans/week
- Significant upside with volume







Polarean Revenue

- Xenon MRI system sales
- Recurring consumables & service
- Global & pharma partnerships expand opportunity

Canada Sites

Vancouver, BC (x2) Toronto, ON London, ON (x2) Hamilton, ON

United States Sites

Birmingham, AL
Durham, NC
Cincinnati, OH
Chapel Hill, NC
Charlottesville, VA
Chicago, IL
Columbia, MO

Iowa City, IA
Kansas City, KS
Houston, TX
Gainesville, FL
New York, NY
Scottsdale, AZ

Research Sites

UK Sites

Oxford Nottingham

Germany Site Hanover

Established CMS payment for Xenon MRI workflow



Total estimated payment for hospital outpatient ≈\$2,500

Xenon scan

Xenon 129 specific codes

On-site production of the active dose





A9610

Xenon Xe-129 hyperpolarized gas, diagnostic, per study dose

C9791

Magnetic resonance imaging with inhaled hyperpolarized xenon-129 contrast agent, chest, including preparation and administration of agent



Proton scan



71550
MRI Chest without
Contrast (Proton)

≈\$300

Image analysis and interpretation



0649T

Quantitative MR for analysis of tissue

76377
3D rendering with interpretation post-processing

≈\$950

≈ \$1,250



Questions? → reimbursement@polarean.com



The coding, coverage, and payment information contained herein is gathered from various resources and is subject to change without notice. Polarean cannot guarantee success in obtaining third-party insurance payments. Third-party payment for medical products and services is affected by numerous factors. It is always the provider's responsibility to determine and submit appropriate codes, charges, and modifiers for services that are rendered. Providers should contact their third-party payers for specific information on their coding, coverage, and payment policies.

Xenon MRI Service Model



Polarean expansion into pharma-sponsored trials

- Strategic Partnership with VIDA
- Advancing Drug Development
 - Sensitive, non-invasive biomarkers potentially reduce sample sizes and accelerate time-to-market for new therapies
- Major Global Pharma Partner Selection
- Strengthening Market Position and Growth Strategy

Xenon MRI

Key Revenue Verticals



Pharma Companies Involved in Studies Using Xenon MRI Through Our Customers











Early Traction



FDA approved. Reimbursement established.

- Consumable growth
- Investing in commercialization with discipline
- \$7.3m cash at end of Q2 2025, no debt
 - funding through Q2 2026
- Strategic partners: Bracco Imaging and NUKEM Isotopes



Proven Leadership and Advisors



Deep expertise in imaging, commercialization, and partnerships

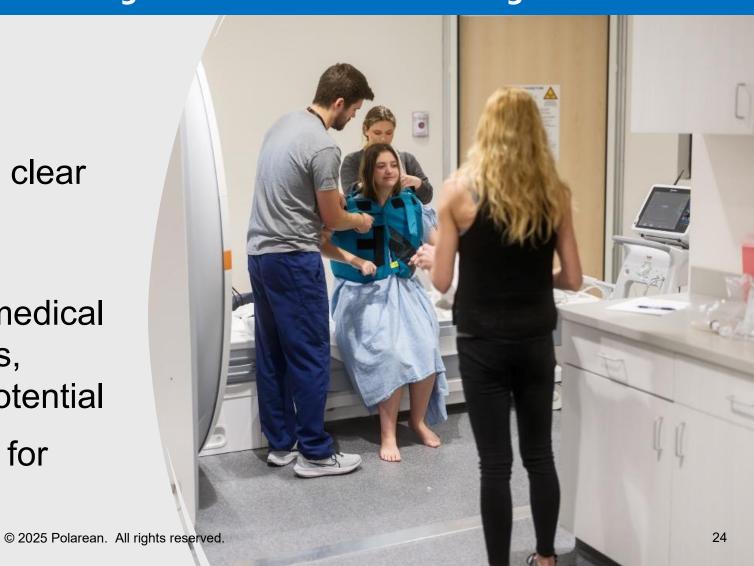
		Selected Prior Company Affiliations
Christopher von Jako, PhD CEO & Executive Director	 Joined in 2023 30+ years of global executive leadership experience in MedTech with a primary focus on capital image guidance equipment Led organisations in early-stage, expansion, and turnaround environments with five entities resulting in M&A 	St. Jude Medical WeuroTherm Medtronic INTEGRA COVIDIEN RADIONICS Trusted Accuracy
Charles Osborne CFO & Executive Director	 Joined in 2019 30+ years of global life sciences experience, 20+ years as CFO Extensive public company, corporate partnering, and M&A experience 	innocrin SCYNEXIS
Alex Dusek Chief Business Officer	 Joined in 2019 25+ years of global executive commercial leadership in Pharma, Biotech, & MedTech Led global pulmonary pharma product launches 	Boehringer Ingelheim United Therapeutics
Alan Huang, PhD VP of Global Sales	 Joined in 2024 15+ years of global business leadership experience in MedTech with a primary focus on capital image guidance equipment Experience in creating new markets and growing businesses with novel technologies. 	JOHNS HOPKINS MEDICINE
Chase Hall, MD Chief Medical Advisor	 Joined in 2024 Associate Professor of Medicine at the University of Kansas Medical Center in the Division of Pulmonary and Critical Care & also serves as Associate Director at the University of Kansas Interstitial Lung Disease and Rare Lung Disease Clinic 	Washington University in St. Louis SCHOOL OF MEDICINE BARNES Hospital Hospital
Bastiaan Driehuys, PhD Chief Scientific Officer & Founder	 Joined in 2012 A Polarean founder and technology founder with over 100 peer-reviewed articles on hyperpolarised gases and holds over 30 patents in this area Professor in the Department of Radiology at Duke University Health System 	Amersham Health

Why Invest in Polarean?



Revolutionising pulmonary medicine through direct visualisation of lung function

- ✓ The unmet need is immense.
- Exclusive IP / capability
- Universal clinician buy-in, with clear patient impact and attractive reimbursement
- Expanding partnerships with medical device and pharma companies, unlocking significant growth potential
- Advancing precision medicine for millions of patients



Thank You!

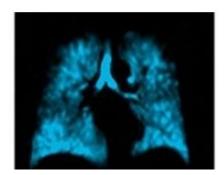


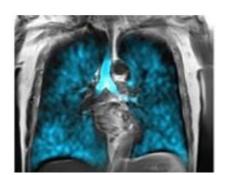
Enquiries:

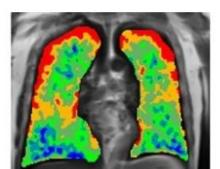


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Optimise lung health and prevent avoidable loss by illuminating hidden disease