

ASX Release 19 September 2024

ASX code: PIQ

Investor Presentation

Proteomics International Laboratories Ltd (Proteomics International; the Company; ASX: PIQ) is pleased to release a copy of the presentation to be provided by Dr Richard Lipscombe to attendees at the Pitt Street Research Life Sciences Conference, Sydney on 19 September 2024.

Authorised by Dr Richard Lipscombe (Managing Director) and Mr Neville Gardiner (Non-Executive Chairman) on behalf of the Board of PIQ.

ENDS

About Proteomics International Laboratories (PILL) (www.proteomicsinternational.com)

Proteomics International (Perth, Western Australia) is a wholly owned subsidiary and trading name of PILL (ASX: PIQ), a medical technology company at the forefront of predictive diagnostics and bio-analytical services. The Company specialises in the area of proteomics – the industrial scale study of the structure and function of proteins. Proteomics International's mission is to improve the quality of lives by the creation and application of innovative tools that enable the improved treatment of disease.

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Proteomics International Laboratories Ltd



A medical technology company at the forefront of predictive diagnostics and precision medicine

Three key focus tests driven by a proprietary platform technology:



Diabetic Kidney Disease

COMMERCIALISATION

- In commercialisation for predicting the onset of chronic kidney disease in type 2 and type 1 diabetes (DKD)
- 10.5% of adults worldwide currently have diabetes
- US reimbursement price set at US\$390



COMMERCIALISATION

- Test in late-stage development to diagnose Endometriosis
- Affects 1 in 9 women and costs Australia alone over AU\$10Bn a year
- Test identified up to 90% of patients with the disease



Esophageal Cancer

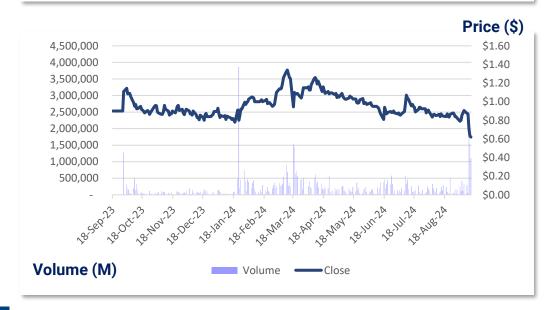
COMMERCIALISATION

- Test nearing commercialisation to diagnose Esophageal Cancer
- 1 in 20 cancer deaths worldwide due to esophageal cancer
- Test identified up to 90% of patients with the disease

Corporate Overview



Corporate Snapshot	
ASX code	PIQ
Market Capitalisation	A\$78m
Cash (30 June 2024) (+ R&D Tax Incentive ~\$2m H1 FY25)	~A\$6.6m
Share Price (17 September 2024)	A\$0.60
Shares on issue	131m
Revenue & other income – FY25	A\$2.7m
Average Quarterly cash burn – FY25	A\$1.5m



Financial and Corporate

- Top 40 Shareholders hold 53%
- Directors are highly aligned with shareholders holding 14%
- Institutional placement raised \$6.5m with leading Asian and Australian funds participating [ASX: 23 January 2024]
- State-of-the-art laboratories
 - Accredited (ISO 17025 and ISO 13485) cutting-edge facility
 - Specialist proteomics technology platform
 - Analytical services pharmacokinetic (PK) testing & biosimilars
 - Headquartered on QEII Medical Campus, Perth, WA
- Revenue generating
 - Bioanalytical service business helps offset cash burn
 - Current revenue does not include sales of PromarkerD,
 PromarkerEndo or PromarkerEso
- Corporate
 - Recruiting to accelerate commercialisation of 3 lead tests
 - additional C-suite executives & Board renewal

Science Proven - Commercialisation Underway



Over 20 years R&D experience resulting in deep pipeline

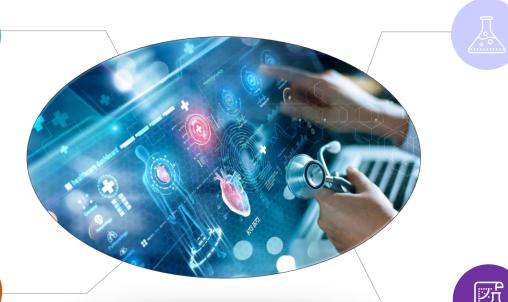
- 3 highly accurate tests commercialisation ready
- Large unmet medical needs
- Will save patient lives & improve quality of life
- Save healthcare systems billions \$

New commercial opportunities for specialised tests



- Changes to regulatory pathways are opening the door to launching specialised tests
- · 320,000 CLIA certified labs in the USA
- Paths: ISO 15189 (Australia); In-house IVD (Europe); LDT (USA)
- PIQ using its expertise to adapt its sophisticated (mass spectrometry) tests for clinical use; by-passing need to create immunoassay (PromarkerD); set-up/train specialised Reference Laboratories
- Example: C2N Diagnostics successful launch of its Alzheimer's test

New, cost-effective routes to market



- Pandemic has changed the landscape: middle-man can now be cut out
- Allows PIQ and their partners to go direct to the patient
- Patients expect virtual testing telehealth options - the health ecosystem has evolved to support this
- Will allow PIQ to obtain a far greater share of the revenue and have more control of strategy
- Minimal Capex and time required to execute on strategies: ~\$100k's not millions and months not years

Each test has whole of market appeal

- Pharma
- Clinical pathology labs
- Diagnostic platform developers
- Physicians
- Patients

The Problem: Target Populations for DKD, Endo and Eso

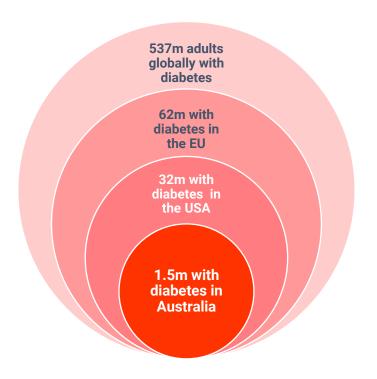


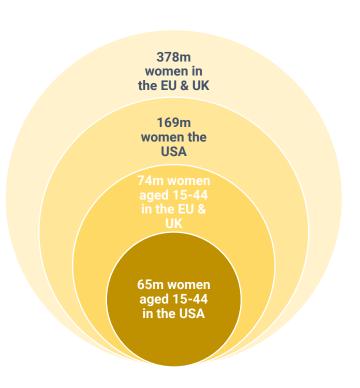
10.5% of global adult population have diabetes

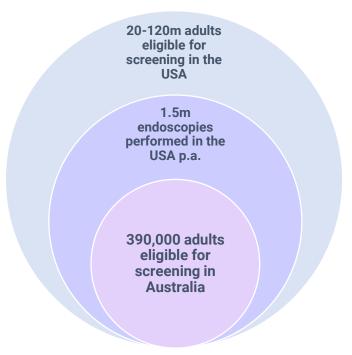
1 in 9 women have endometriosis

1-2% of western populations at risk – of Esophageal Cancer

(Diagnosed by endoscopy with biopsy)







Sources

www.statista.com/statistics/755225/population-of-europe-bygender/#:~:text=In%202023%2C%20the%20female%20population,male%20population%20of%20358.3%20million International Diabetes Federation (IDF) Atlas 10th Edition 2021 [Age group 20-79 years]

www.medscape.com/viewarticle/990519?form=fpf

www.cancer.org.au/assets/pdf/9-august-2020 (European Commission)(StatisticsTimes)(ONS.gov).

Australian eligible adults screening determined as midpoint of 1-2% of Australian population of ~26m

The Solution: Precision Medicine Targeting Unmet Needs



Promarker D

Diabetic Kidney Disease

- 1-in-3 with diabetes currently have chronic kidney disease
- PromarkerD can predict onset of CKD up to 4 years in advance – accuracy 86%
- Novel blood test taken yearly on average
- Targeting type 2 and type 1 diabetes
- New therapeutics treatments available – GLP-1 agonists, gliflozin class (SGLT-2s)
- Targeting Launch Q1 CY25

Promarker Endo

Endometriosis

- Potential target is all premenopausal women globally
- Currently diagnosis takes average of 7-10 years
- Standard of care for diagnosis is invasive surgery
- Novel blood test is ~90% accurate
- Significant community, Government and personal interest in the Endometriosis space
- Targeting Launch Q2 CY25

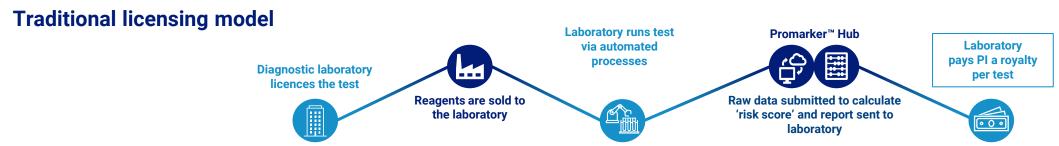
PromarkerEso

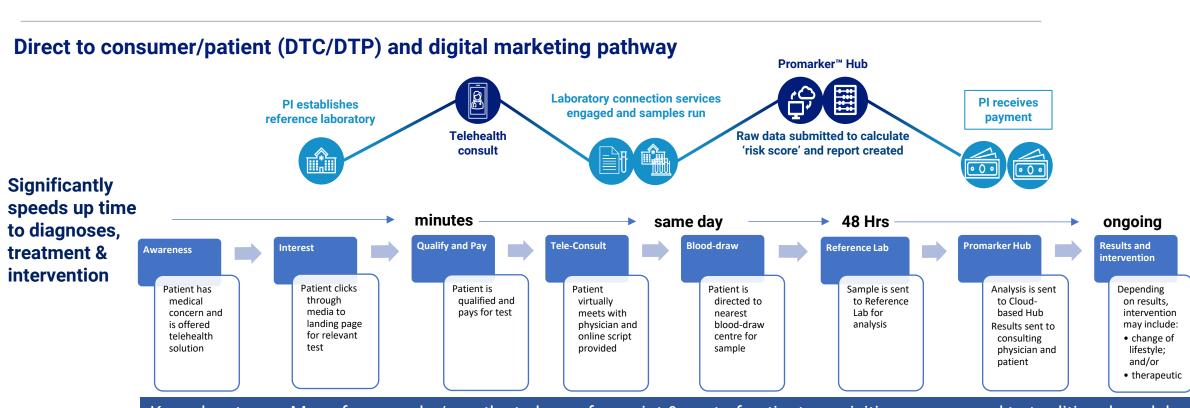
Esophageal Cancer

- 1 in 20 cancer deaths worldwide due to esophageal cancer
- 5 year survival rate < 20%
- Novel blood test is ~90% accurate
- World-first blood test to screen for esophageal cancer
- Standard of care for diagnosis is endoscopy, which is costly and time consuming
- Targeting Launch Q1 CY25

Go-to-Market Pathways







Key advantages: Move from weeks/months to hours for script & cost of patient acquisition < compared to traditional model

PromarkerD Global Rollout - Key Highlights



Intellectual Property



Patents granted in all major jurisdictions - PromarkerD Patent family & Trademark covers 72% of the world's diabetes patients

Regulatory



CE Mark (EU) registration received for the Promarker D Immunoassay IVD US sales utilising the Lab Developed Test (LDT) pathway via CLIA certified laboratories



Manufacturing scale-up



ISO 13485 certified EU manufacturer

Simple technology platform (immunoassay) – easy to use and integrate into existing pathology lab processes

Peer Reviewed



PromarkerD tested on over **5,000 patients** in 4-year clinical studies Global multi-centre clinical study (CANVAS) on 3,568 participants in collaboration with Janssen (J&J) Clinical & analytical validity proven (Sensitivity 86%); 10+ Peer Reviewed Publications



Physician Support

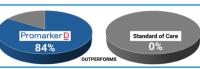


Clinical utility demonstrated - US based survey showed 96% of physicians were likely to use PromarkerD test scores for clinical decision making; PromarkerD consistently ranked as one of the top 2 factors driving physician decision-making.

Outperforms Standard of Care



857 community-based patients tested for existing DKD at baseline: 497 had normal kidney function PromarkerD accurately predicted 84% (N=38); All were missed by Standard of Care tests



The Need



Economic Cost: Chronic Kidney Disease cost Australia A\$9.9bn in 2021 (Kidney Health Australia) - investment in early detection could yield a net benefit of \$10.2bn over 20 years; Kidney Research UK have declared a public health emergency - by 2033 kidney disease risks costing the UK economy £13.9bn annually

The Treatments



New renal protective therapies: SLGT2-inhibitors approved & potential use of GLP-1 agonist semaglutide (Ozempic) PromarkerD identifies patients for better management of diabetes, adherence to medications, and focus on diet & exercise

The Utility



Complementary diagnostic - Early diagnosis of DKD using PromarkerD can help inform doctors' treatment decisions to improve clinical outcomes for patients. Actions taken BEFORE the onset of DKD

Breakthrough Study



PromarkerD validated for Type 1 (T1D) diabetes - demonstrated high accuracy (AUC of 0.93) in predicting chronic kidney disease in patients with T1D (represents 10% of all diabetes cases); Offers a new target market

Launch Strategy for DTP



Establishing first sales via direct-to-patient (DTP) builds product awareness and drives mainstream use and subsequent volume

Rapidly
establish each
Promarker test
as the key tool
for patients &
physicians

Step 1 Engage patients

- Direct to consumer advertising
- Patient advocacy groups
- Nurse practitioners & physicians via KOLs

Step 2 Motivate patients

- Understand their risk of disease
- Ease of access
- Telehealth consult for diagnosis

Step 3 Provide patient access

- Reduce barriers to obtaining a test
- Provide immediate fulfillment

Step 4 Drive and Grow sales

- Builds market awareness
- Focus on highly motivated patients groups (e.g. T1D and endometriosis)
- Create a buzz about the tests
- Option to expand to new regions and partners

Initial use via self-pay

Existing PromarkerD PLA code pricing provides engagement point for insurers Usage builds case for reimbursement of PromarkerEndo and PromarkerEso

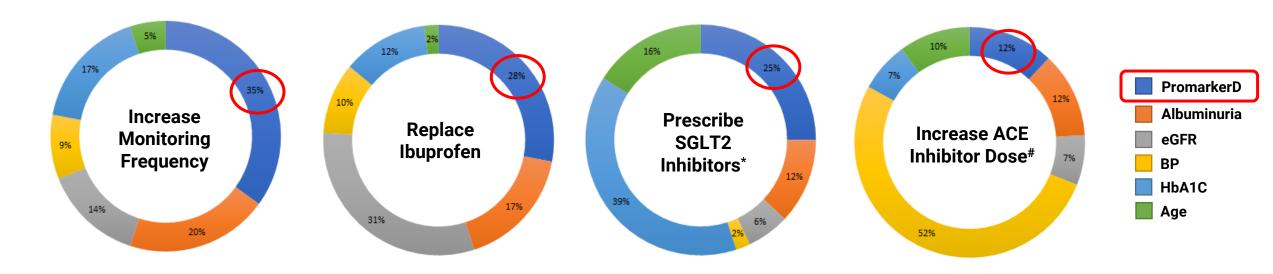
PromarkerD: Clinical Utility & Decision Impact



Launch strategy supported by engagement with KOLs and primary care physicians

Research indicates physicians would use PromarkerD to inform patient treatment decisions

- 96% of physicians were likely to use PromarkerD test scores for clinical decision-making
- PromarkerD consistently ranked as one of the top 2 factors driving physician decision-making
- Survey of 400 Endocrinologists & Primary Care Physicians (US based)



^{*} SGLT2-inhibitor class of medications are already widely used for the treatment of diabetes, and now also indicated for cardiovascular disease and DKD.

^{*}ACE Inhibitor class of medications are commonly used for the treatment of high blood pressure and heart failure.

PromarkerD: Existing partnerships



Proteomics International is focused on supporting its partners to achieve first sales in each jurisdiction



- PromarkerD is CE Mark registered in Europe
- Detailed market assessments completed



- Appointed Growth Medics as sales agency for Europe, targeting Netherlands, Belgium, Italy and Spain
- Eurobio Scientific licenced to sell test in France



- Distribution Licence with Apacor Ltd for PromarkerD
- Test registered with Medicines & Healthcare products Regulatory Agency
- National Institute for Health & Care Excellence (NICE)
 Medtech Innovation Briefing "NICE Advice" published

Current Steps

Establish independent Reference Laboratory

Current Steps

- Engaging with potential Reference Labs & customers in designated markets
- Assessing reimbursement pathways
- Targeting further country partners

Current Steps

- Engaging with potential Reference Labs
- Engaged with the NHS Supply Chain Tender
- Targeting PromarkerD inclusion in the NICE guidelines

Puerto Rico, Chile & Dom Republic

3m T2 diabetics

- Licence with Omics Global Solutions for immunoassay (Innovatio ND2): Puerto Rico, Dominican Republic, and Chile
- Test registered with Ministry of Health
- First sales commenced

Current Steps

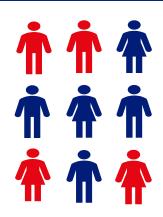
- Securing public reimbursement (Puerto Rico linked to CMS pricing and established PLA code)
- Expanding uptake of the test through engagement with primary care physicians
- Exploring additional sales to neighbouring territories

Promarker – Platform Technology





PromarkerTM is a platform technology that can identify unique protein biomarkers 'fingerprints'



The platform identifies and links the unique protein biomarkers to specific diseases, enabling Proteomics International to create novel diagnostic tests

Pipeline of Precision Diagnostics

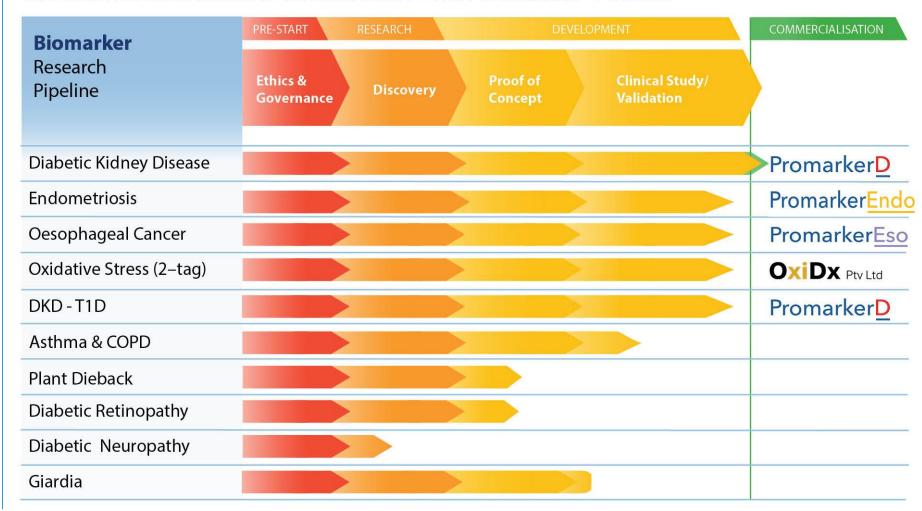


Platform technology drives deep pipeline of novel diagnostic tests

Further global potential in new markets

- Promarker™ platform develops novel intellectual property
- Targeting new diagnostic tests in areas of significant unmet need
- Enormous markets and revenue potential

DIAGNOSTICS RESEARCH AND DEVELOPMENT – THE PROMARKER™ PIPELINE



PromarkerEndo: Endometriosis



World-first blood test 'Promarker Endo' in late-stage development

Clinical question – can a blood test distinguish between individuals who are:

- 1) healthy
- 2) symptomatic patients (pelvic pain but surgically-diagnosed absence of endometriosis)
- 3) endometriosis patients (confirmed by laparoscopy 4 stages: minimal/mild/moderate/severe)

Test status

- Prototype test identified up to 90% of patients with the disease (World Endometriosis Conference, May '23)
- Patents pending in all major jurisdictions
- Prototype test showed limitations in diagnosing symptomatic patients from minimal & mild endometriosis
- Advanced statistical modelling performed to distinguish symptomatic patients from minimal & mild endometriosis
- New clinical results submitted for peer review publication
- Further model optimisation being finalised using 'traffic light' system to improve test performance for clinical use
- Methodology (mass spectrometry) being adapted for clinical launch
- Discussions underway to establish test in reference laboratories in USA and Europe
- Proteomics International preparing to launch PromarkerEndo in Australia under ISO 15189 accreditation, targeting Q2 CY25

Clinical studies

- Development biomarker panel (Wesley Medical Research Biobank N=56 samples)
- Validation Collaboration with Royal Women's Hospital & University of Melbourne analysed (endometriosis N=494; healthy individuals N=153; symptomatic controls N=254) (World Endometriosis Conference, May '23)
- Clinical validation biomarker panel confirmed in independent patient cohort from St John of God Subiaco Hospital Gynaecological Cancer Research Group (N=241 patients) (Lorne Proteomics Symposium, Feb '24)
- Clinical validation Collaboration ongoing with University of Oxford for international validation study (N=600 samples)

PromarkerEso: Esophageal Cancer



World-first blood test 'PromarkerEso' nearing commercialisation

Clinical question – can a blood test distinguish between individuals who are:

- 1) healthy
- 2) esophageal adenocarcinoma (EAC) patients
 - Only 50% of EAC patients report chronic acid reflux
 - 90% of EAC cases continue to remain undetected
 - > 25% of EAC cases misdiagnosed as negative by endoscopy

Test status

- Prototype test identified up to 90% of patients with the disease (World Congress Esophageal Diseases, Sept '23)
- Patents granted in Europe, China, Australia; USA pending
- Model optimisation refined using 'traffic light' system to improve test performance for clinical use
- Presenting latest results at World Congress Esophageal Diseases, Sept '24
- Methodology (mass spectrometry) being adapted for clinical launch
- Discussions underway to establish test in reference laboratories in USA and Europe
- Proteomics International preparing to launch PromarkerEso in Australia under ISO 15189 accreditation, targeting Q1 CY25

Clinical studies

- Development and Validation Collaboration with QIMR Berghofer Medical Research Institute analysed 302 samples across two patient cohorts:
 - □ PROBE-NET study, Australia (N=249)
 - Ochsner Health System, USA (N=49)
- Clinical validation biomarker panel confirmed in independent patient cohort from Victoria Cancer Biobank (N=165)

(Lorne Proteomics Symposium, Feb '24)

 Clinical validation – ongoing analysis of samples from Victoria Cancer Biobank to confirm clinical performance of the test (N=165)

Dx Pipeline: Oxidative Stress



Potential world-first blood test in late-stage development

What is Oxidative Stress?

- Oxidative stress occurs when the body's antioxidant defences are overwhelmed by an excess of toxic oxidants
- Oxidative stress is implicated in over 70 health conditions with levels often reflective of a person's health condition

OxiDx - blood test to monitor oxidative stress

 OxiDx P/L was spun out of PIQ and the University of Western Australia in Aug 2022

World first test:

- Accurate highly sensitive
- Simple to use finger prick sample
- Cost effective for mass market use
- Peer reviewed multiple journal publications
- Patented patent families cover Australia & USA, Europe & Japan; others pending



Targeting commercial use of OxiDx technology:

- Athletic monitoring tool for competition preparedness:
 - Professional Sports performance, recovery and injury risk management – 55% of sports injuries are muscle related
 - o **Proof-of-concept study being finalised**
 - Thoroughbred Racing Industry injury risk management and racepreparedness - 85% of Thoroughbreds suffer injury in their first 2-3 yrs
 - Proof-of-concept study being finalised

Potential spin-out opportunity:

In discussions for third party investment









Multiple Value Drivers in FY25



Exceptional Global Opportunity

- Disruptive, cutting-edge technology & proven in-house diagnostics platform
- PromarkerD test de-risked, patented, revenue ready
- PromarkerEndo and PromarkerEso tests nearing commercial readiness
- > Tests are scalable with high margins
- Whole of market appeal: pharma, clinical pathology labs, diagnostic platform developers, physicians and patients
- Vibrant corporate activity in the precision medicine, diagnostics and CRO (clinical trials) sectors

Potential Share Price Catalysts throughout FY25

Milestone	TARGET Qtr De	c Mar	Jun	Impact
Commercial				
First Sales PromarkerD in I	JSA			Initiate pathway to significant revenues
PromarkerD launched in A	ustralia			Drive global uptake and future revenue
PromarkerD launched in El	J			Route to first sales in each country
PromarkerEndo launched in Australia				First sales
PromarkerEso launched in	Australia			First sales
Clinical/Technical				
Endometriosis Dx - results	update			New first-in-class diagnostic test
Esophageal Cancer Dx - re	sults update			New first-in-class diagnostic test
OxiDx test - results update				New first-in-class diagnostic test
Regulatory/Reimbursement				
PromarkerD submissions (TGA, FDA)			Assist global roll-out
Endo 'FDA breakthrough' s	ubmission			Support US roll-out
Eso 'FDA breakthrough' su	bmission			Support US roll-out

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ASX:PIQ

Supplemental



Board of Directors





Neville Gardiner BBus (Accounting and Business Law) (Curtin), Non-Executive Chair

Seasoned finance professional with over 30 years' experience providing corporate advice to Boards of public and private companies. He was Co-Founder and MD of Torridon Partners, an independent corporate advisory firm, which was acquired by Deloitte in 2016, where he became Partner in their M&A Advisory team.



Dr Richard Lipscombe PhD (London), MA (Oxon), Co-Founder & Managing Director

Led the Company from foundation through listing in 2015 to today. 30 years biotechnology experience in R&D and product commercialisation in academic and commercial entities. Technical expertise in chemistry, immunology, biomarker discovery & clinical proteomics.



Roger Moore R (Denmark), BPharm (U.Syd), Non-Executive Director

International pharmaceutical industry experience spanning 40 years, including almost 30 years as President of Novo Nordisk Japan. From 2000, he was appointed Novo Nordisk's Senior Vice President, Japan & Oceania Region. He has also served as a member of the Senior Management Board, Novo Nordisk A/S.



Paul House GAICD, BCommerce (UWA), Non-Executive Director

Over 25 years with multi-national corporations, CEO of Imdex (ASX:IMD), prior role as MD of SGS India for 8 years. Previously held CFO and COO roles, and was Senior Manager at a leading global management consultancy firm.



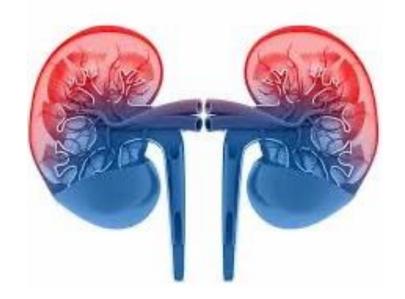
Dr James William PhD (Melbourne), MBA (UWA), BSc, Hons (Aberdeen), GAICD, Non-Executive Deputy Chair

Accomplished manager, director, scientist and investor with experience covering all aspects of life-science technology translation. Involved from startup to commercialisation, including CEO, CTO, Director and Chair roles, of numerous biotech companies (including Dimerix (DXB.ASX) and iCeutica) which have resulted in five Food and Drug Administration (FDA) approved drugs & medical devices.

Promarker D

PROACTIVELY CHANGING RENAL HEALTHCARE

A simple blood test for predicting diabetic kidney disease



PromarkerD: World Class Advisory Board



Proteomics International is supported by an international, highly acclaimed advisory board

Professor Tim Davis MedSc, MB, W.Aust., DPhil Oxf., FRACP, MRCP (UK) - Australia

Consultant physician and endocrinologist, Fremantle Hospital, Professor of Medicine, University of Western Australia; WA Health Department's Diabetes & Endocrinology Clinical Network Co-lead



Dr Ele Ferrannini MD – *Italy*

Professor of medicine, The University of Pisa Adjunct Clinical Professor of Medicine, University of Texas Health Science Center: Senior research associate. National Research Council's Institute of Clinical Physiology



Ms Davida F. Kruger MSN, APN-BC, BC-ADM

- United States

Certified Nurse Practitioner, Henry Ford Health Past Chair of the American Diabetes Association's (ADA) Research Foundation; ADA Educator of the Year (2017)



Associate Professor Michael Shanik MD, FACP, FACE

- United States

Managing partner at Endocrine Associates of Long Island, PC Clinical Associate Professor, Stony Brook University Hospital, New York



Professor Merlin Thomas MBChB, PhD, FRACP,

FAAHMS - Australia

Nephrologist, scientist and program leader, the Department of Diabetes, Monash University Founder and Chief Scientific Officer, RAGE Biotech Ltd



Dr Alexander Turchin MD. MS – *United States*

Director of quality for the division of endocrinology, Brigham and Women's Hospital, Boston Associate Professor of Medicine, Harvard Medical School Fellow of the American College of Medical Informatics



Ms Hope Warshaw MMSc, RD, CDCES, BC-ADM,

FADCES - United States

Registered Dietician, Certified Diabetes Care and Education Specialist President of the ADCES 2016 & Chair of the Academy's Foundation 2022-2023



Problem and Solution - Diabetic Kidney Disease





The Problem

- 537 million adults with diabetes globally
- 1-in-3 with diabetes have chronic kidney disease
- Kidney disease is a silent killer kidney function can fall below 15-20% with no symptoms
- Damage to kidneys is irreversible, therefore early detection is paramount
- Diabetic kidney disease leads to renal failure which requires dialysis (US\$72,000 p.a.) or kidney transplant
- Total cost of diabetic kidney disease = US\$130 Bn per year in USA alone



Current standard-of-care diagnostics

- Existing tests (known as eGFR and ACR) can only detect chronic kidney disease once it is already present
- Current standard-of-care tests cannot predict the onset of diabetic kidney disease
- If unchecked, patients ultimately require dialysis and/or a kidney transplant



Diseased Kidney



Promarker D

- PromarkerD can predict the onset of disease before clinical symptoms appear (up to four years prior)
- Doctors can then prescribe an early therapeutic treatment to slow or stop the onset of disease
- Kidneys remain healthier for longer, saving healthcare systems billions of dollars and improving quality of life for patients



International Diabetes Federation 2021 US Renal Data System 2020

PromarkerD - Patented in all Major Markets



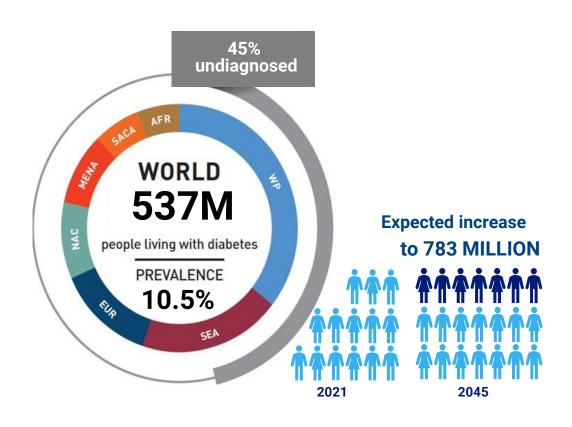
Diabetic Kidney Disease is becoming one of the largest burdens on healthcare systems globally

Patent family & Trademark covers 72% of world's diabetics¹

Country	Patent/Application No	Patent Status	No. Diabetics ¹
Australia	2011305050	Granted	1,491,800
Brazil	BR112013006740	Granted	15,733,600
Canada	2811654	Granted	2,974,000
China	ZL201180053583.9	Granted	140,869,600
Europe ^{2,3}	3151012	Granted	61,425,100
Hong Kong	18115912.3	Granted	686,000
India	3012/DELNP/2013	Granted	74,194,700
Indonesia	W00 2013 01585	Granted	19,465,100
Japan	2013-528474	Granted	11,005,000
Russia	2596486	Granted	7,392,100
Singapore	188527	Granted	711,800
USA ^{2,4}	US 9,146,243	Granted	32,215,300
			260 million Total

~368 million Total

- 1. International Diabetes Federation (IDF) Atlas 10th Edition 2021 [Age group 20-79 years]
- 2. Australia, Europe, HK, USA patent family also covers testing for any form of kidney disease (Extra efficacy studies required)
- 3. Covers France, Germany, Italy, Spain, Turkey and the United Kingdom
- USA patent further extended to cover method for identifying drugs for abnormal kidney function using one of the PromarkerD biomarkers (CD5L)

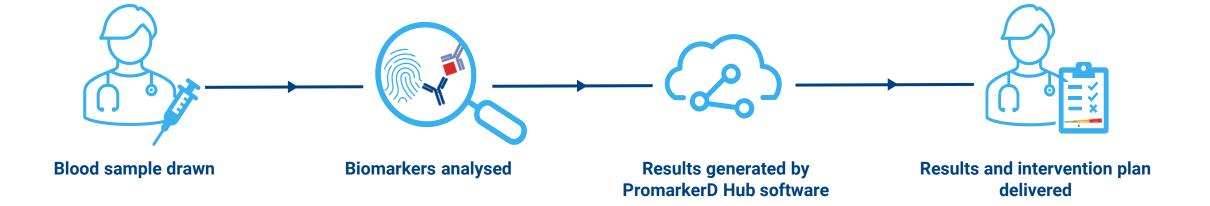


Market assumptions

- Test is performed once per year per patient on average
- Standard industry royalty rates range from 5-15%

PromarkerD - Simple Integration & Use





Sample is drawn at clinic or pathology laboratory

Laboratory uses a standard technology platform

Advanced rapid immunoassay measures three plasma proteins -

combined with three simple clinical factors (age, cholesterol, eGFR)

CE Mark registered

Manufactured to ISO 13485 standard in Europe

Cloud based algorithm, the "PromarkerD Hub" calculates the patient's kidney disease risk score

Employs a traffic light system for optimal performance, classifies patients as:

- low risk
- moderate risk
- high risk

Clinician delivers results to patient

Depending on results, intervention may include:

- · change of lifestyle; and/or
- therapeutic drugs
 - SGLT2-inhibitor
 - GLP-1 agonist

PromarkerD - Results & Intervention



How PromarkerD results are delivered LOW RISK MODERATE RISK HIGH RISK RISK SCORE % 0 10 20 100 Prognostic 16% indicates a moderate risk of decline in kidney function*

Risk Score	Intervention	Testing Regimen
Low Risk	Standard diabetes management	Test Annually
Moderate Risk	 More frequent monitoring Optimisation of lifestyle Review of glycemic targets and management Review non-glycemic risk factors Avoidance of potentially nephrotoxic drugs 	Test every 6 months
High Risk	 Very close monitoring Intensive management strategies based on those for 'Moderate risk' above Utilisation of therapeutic drugs 	Test every 3 months

^{*}as defined by incident diabetic kidney disease (eGFR <60ml/min/1.73m²) in the next four years. Note: if eGFR level at the time of the test is already <60ml/min/1.73m², then the risk of a further decline in kidney function is defined as an eGFR decline >30% in the next four years

PromarkerD in the Clinic





Peer Reviewed



Physician Support



Outperforms Standard of Care

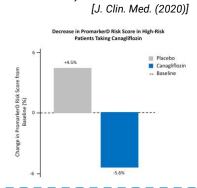
PromarkerD tested on **over 5,000 patients** in 4-year clinical studies

10+ Peer Reviewed Publications

World leading results: janssen

- Global clinical study 3,568 participants from completed CANVAS clinical trial
- PromarkerD predicted 'incident DKD' high-risk patients 13.5 times more likely than low-risk to develop DKD (P = 1.3x10⁻¹⁰⁴)
- PromarkerD highrisk patients show greatest benefit from early use of SGLT2-inhibitor

[J. Clin. Med. (2023)]

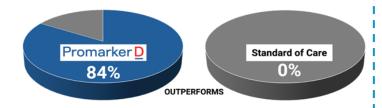


Survey of 400 Endocrinologists & Primary Care Physicians (US based)

- 96% of physicians were likely to use
 PromarkerD test scores for clinical decision making
- PromarkerD consistently ranked as one of the top 2 factors driving physician decisionmaking:
 - monitoring frequency
 - use of anti-inflammatories
 - prescribing SGLT2s
 - ACE inhibitor dosing

[PLOS One (2022)]

- 857 community based patients tested for existing DKD at baseline: 497 had normal kidney function
- 9% of patients developed DKD within 4 years:
 - PromarkerD accurately predicted 84% (N=38)
 - All were missed by Standard of care tests [ASN (2021)]



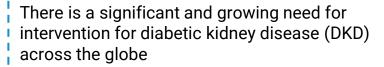
PromarkerD compared to standard of care tests (eGFR and ACR) for predicting DKD

PromarkerD: Precision Medicine



Promarker D

The Need



Economic Cost

- Kidney Research UK have declared a public health emergency - by 2033 kidney disease risks costing the UK Economy £13.9 billion annually
- Kidney Health Australia found the annual cost of Chronic Kidney Disease in Australia was A\$9.9 billion in 2021 – investment in early detection could yield a net benefit of \$10.2 billion over 20 years



The Treatments

Patients identified as high-risk of DKD by PromarkerD now have multiple preventative treatment options:

Better management of diabetes

- Adherence to medications
- Focus on diet & exercise

New renal protective therapies

- Three SLGT2-inhibitors (empagliflozin, canaglifozin, dapagliflozin) have now been approved for treatment of DKD
- GLP-1 agonist semaglutide (Ozempic) trial for DKD shows treatment is renal protective



Complementary diagnostic

Early diagnosis of DKD using PromarkerD can help inform doctors' treatment decisions to improve clinical outcomes for patients:

- High-risk patients for kidney decline can be prescribed renal-protective medications such as SLGT2i or GLP-1ag
- Low-risk patients can avoid aggressive treatment options
- Monitor response and change dosage or drug type if required

Actions taken BEFORE the onset of DKD

PromarkerD: Key Publications



Prognostic Validation for Type 1 Diabetes	Davis TME, et al. Application of a validated prognostic protein biomarker test for renal decline in type 2 diabetes to type 1 diabetes: The Fremantle Diabetes Study Phase II. ADC <u>2024.</u>
PromarkerD Demonstrates Benefit of Early Treatment with SGLT2-inhibitors	Peters KE, et al. Canagliflozin Attenuates PromarkerD Diabetic Kidney Disease Risk Prediction Score. J Clinical Medicine. <u>2023.</u>
Clinical Utility	Fusfeld L, et al. Evaluation of the clinical utility of the PromarkerD in-vitro test in predicting diabetic kidney disease and rapid renal decline through a conjoint analysis. PLOS ONE. <u>2022.</u>
PromarkerD vs Standard of Care	Peters KE, et al. A Comparison of PromarkerD to Standard of Care Tests for Predicting Renal Decline in Type 2 Diabetes. Poster presented at ASN Kidney Week. <u>2021.</u>
Economic Health Benefit	Burchenal W, et al. Demonstrating the Economic Health Benefit of using the PromarkerD In Vitro Diagnostic Test in the Prediction of Diabetic Kidney Disease. Poster presented at the American Diabetes Association's 81st Scientific Sessions. 2021.
Global Multi-centre Validation	Peters KE, et al. PromarkerD Predicts Renal Function Decline in Type 2 Diabetes in the Canagliflozin Cardiovascular Assessment Study (CANVAS). Journal of Clinical Medicine. <u>2020.</u>
Predicts Late-stage Renal Function Decline	Peters KE, et al. PromarkerD Predicts Late-Stage Renal Function Decline in Type 2 Diabetes in the Canagliflozin Cardiovascular Assessment Study (CANVAS). Poster presented at ADA. 2022.
Prognostic Validation	Peters KE, et al. Validation of a Protein Biomarker Test for Predicting Renal Decline in Type 2 Diabetes: The Fremantle Diabetes Study Phase II. J Diab Comp. <u>2019.</u>
Prognostic Development	Peters KE, et al. Identification of Novel Circulating Biomarkers Predicting Rapid Decline in Renal Function in Type 2 Diabetes: The Fremantle Diabetes Study Phase II. Diabetes Care. <u>2017.</u>
Diagnostic Study	Bringans SD, et al. Comprehensive Mass Spectrometry Based Biomarker Discovery and Validation Platform as Applied to Diabetic Kidney Disease. EuPA Open Proteomics. <u>2017.</u>
Cross-platform Validation	Bringans SD, et al. The New and the Old: Platform Cross-Validation of Immunoaffinity MASS Spectrometry versus ELISA for PromarkerD, a Predictive Test for Diabetic Kidney Disease. Proteomes. <u>2020.</u>