

ASX Announcement 8 August 2023

BCAL Diagnostics Investor Education Update and Webinar

BCAL Diagnostics Limited ("BCAL" or "the Company") (ASX: BDX) is pleased to attach an investor eduction update . BCAL will host a webinar today, please see details below.

Investor Webinar Details

BCAL will be hosting an investor webinar on Tuesday 8 August 2023 at 11:00 am to update shareholders and provide further information on the Precion results and implications for the BCAL test.

The call will be hosted by Jayne Shaw, Executive Chair and Dr John Hurrell.

Webinar details Date:

Time: To register: Dial in details: Tuesday 8 August 2023 11:00am - 12:00pm (AEST) <u>Register here</u> Will be provided to you upon registration

Participants will be able to submit questions during the webinar via a written Q&A facility displayed at the bottom of the webinar screen or can submit them in advance to bhall@bcaldiagnostics.com.

This announcement has been approved by the BCAL Board.

ENDS Jayne Shaw

Executive Chair Jshaw@bcaldiagnostics.com Guy Robertson Chief Financial Officer grobertson@bcaldiagnostics.com



About BCAL Diagnostics

BCAL Diagnostics Limited is an Australian screening and diagnostic company committed to the early, accurate diagnosis of breast cancer, and therefore early intervention and improved outcomes for women. Over the past decade BCAL has developed a non-invasive blood test for the detection of breast cancer, The test is initially designed to complement current imaging technologies, such as the mammogram, with the aim of becoming a monitoring and screening tool suitable for women of all ages and backgrounds in any location. With more than two million new cases of breast cancer diagnosed globally each year, a substantial opportunity exists for BCAL to improve patient outcomes. BCAL has partnered with Precion Inc. to optimise protocols and procedures for the clinical studies required for regulatory approvals across several jurisdictions, commercialisation and market entry points.

Founded in 2010, BCAL is headquartered in Sydney and listed on the Australian Securities Exchange (ASX: BDX). For more information: <u>https://www.bcaldiagnostics.com/</u>

About Precion Inc

Precion applies mass spectrometry technology to develop and provide targeted metabolite panels for profiling various chronic disease conditions and associated health areas for clinical research. Precion offers development of diagnostics and precision medicine assay formats for downstream applications. Precion's testing services for commercial and research customers provide data for various sample types and project objectives. Precion offers a range of targeted panels and custom developed panels for partners with specific clinical objectives. For more information: https://www.precion.com/



A revolution for breast cancer detection and management.

BCAL has developed and is commercialising a novel proprietary test to enable more effective detection and management of breast cancer.



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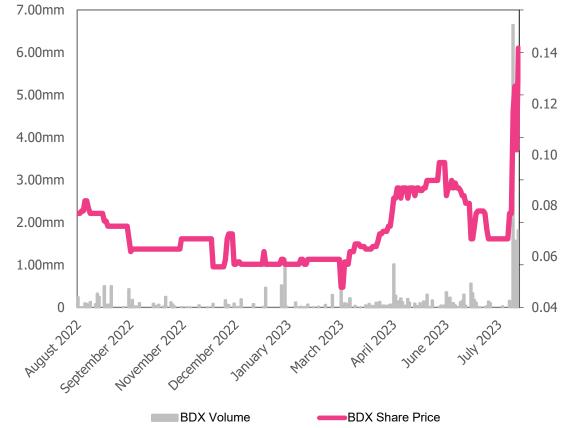
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Company Metrics

BCAL DIAGNOSTICS LIMITED



ASX Code	BDX
Share Price 7 August 2023	\$0.145
Shares on Issue	211.4M
Unlisted Options	11.5 M
Cash 30 June 2023	\$3.2M
Top 20 Shareholders	66.6%



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Our Mission



To deliver global customers an effective, best-in-class, breast cancer detection and rule-out test, benefiting physicians and patients alike.

A paradigm shift for managing and caring for breast cancer.

Executive Summary BCAL DIAGNOSTICS LIMITED



BCAL is a cancer diagnostics company providing physician customers with proprietary detection and rule-out tests for breast cancer (BREASTESTTM)







BREASTEST[™] is uniquely positioned to address the unmet need for a more effective, patient friendly and accurate test for the early detection of breast cancer.



BREASTEST[™] has shown consistent performance across the most common breast cancer sub-types.

Recent results have confirmed accuracy and replicability of BREASTEST[™] between laboratories in two different countries.

BCAL will begin to monetise its technology in 2024.

BREASTESTTM is on track to be launched with selected physicians in 2024.

BCAL recently annound outstanding results from a clinical study confirming accuracy and demonstrating replicability of BREASTEST™.

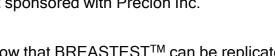


of mammography.

BCAL has recently received outstanding results from a clinical study it sponsored with Precion Inc.

The results show that BREASTEST[™] can be replicated using standard equipment used in commercial laboratories throughout the world.

These results confirm the impressive sensitivity of 90% and specificity of 85.5% which are above the accuracy



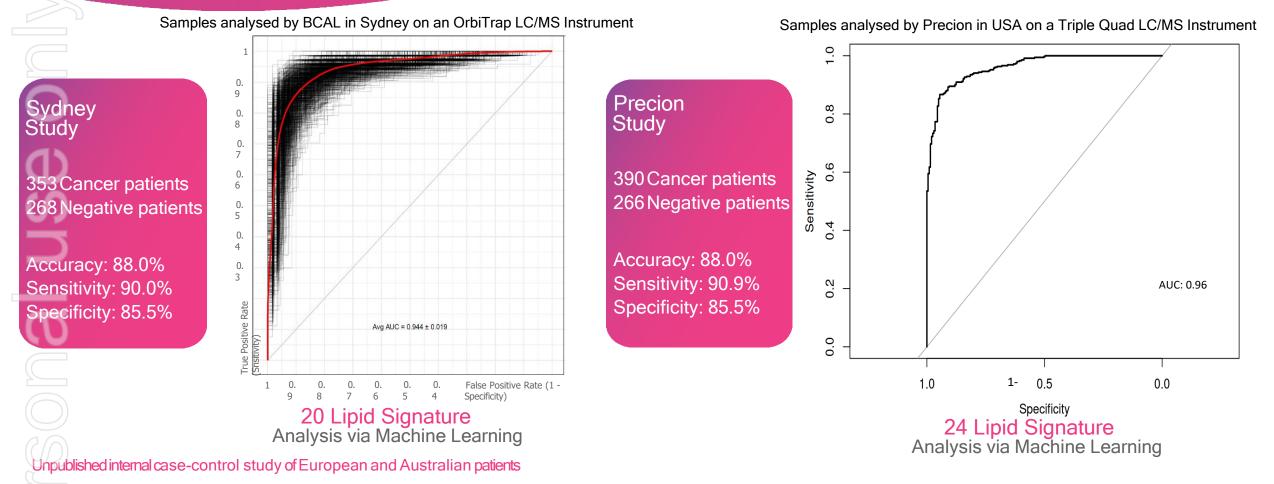


These results are a major breakthrough on the path to commercialisation and enhance the confidence of the Company that BREASTEST[™] will be commercialised in late CY2024.





BREASTEST[™] outperforms mammography



BCAL DIAGNOSTICS LIMITED

The compelling global opportunity that we address

1 in 7 women in Australia Will receive a breast cancer diagnosis during their lifetime.



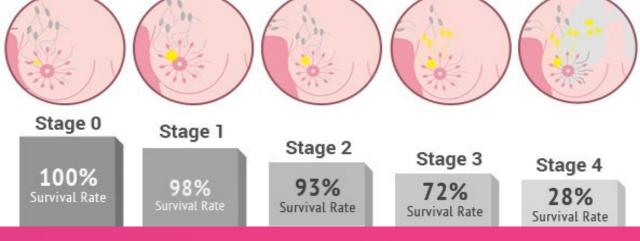
Breast cancer is the second leading cause of cancer death in the US after lung cancer.

Breast cancer is the most common cancer in women in the US after skin cancer.

1 in 39 women currently die from breast cancer Source: Cancer.org.

Early diagn survival rate

Early diagnosis is key to increased survival rates



Breast Cancer Stages

https://www.pinkribbon.org.pk/stages-breast-cancer/

Limitations of mammography

Not definitive

20% of breast cancers are missed - false negatives.

> Limited accuracy prone to false positives.

Guidelines limit access to over 40 y/o only

Prone to self-exclusion

painful, uncomfortable, cultural reasons.

Most effective above 50 y/o due to breast density and fatty tissue

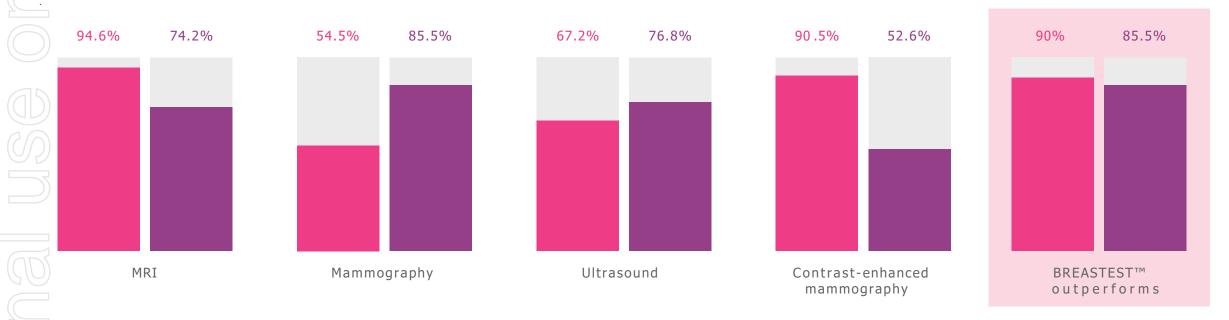
Limited remote access

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BREASTEST[™] outperforms existing standards of care



There is currently no completely effective detection or rule out test available for breast cancer



A cancer detection test requires a balance of sensitivity (ability to detect true positive samples) and specificity (ability to detect true negative samples).



Internal validation of BREASTEST[™] shows strong potential performance with a balance between sensitivity and specificity.

BCAL DIAGNOSTICS LIMITED



An effective and accurate blood test should increase the screening detection rate and reduce mortality

Dr Gillian Lamoury, Radiation Oncologist, Sydney, in a paper presented at ASCO 2023: Lipidomic signature from plasma to detect localised breast cancer

AL DIAGNOSTICS LIMITED

Commercialisation of BREASTEST[™] on track for 2HCY24

14 years of development BCAL commenced operating in 2009.

Over 2,000 independent patient and control samples tested Demonstrating consistent and robust level of accuracy.

IPO in 2021 raised funds to accelerate development BCAL has met prospectus forecasts in developing BREASTESTTM.

Uses liquid chromatography-mass spectrometry BCAL is at the cutting edge of use of lipidomics for cancer diagnostics.

BCAL has assembled a leading scientific and management team.

BCAL has as scientific and BREASTEST close collabo scientists glo Building a pip cancers with platform. BCAL has as scientific and

BREASTEST[™] has been developed in close collaboration with clinicians and scientists globally.

Building a pipeline of tests for other cancers with our proprietary lipidomic platform.

State-of-the-art commercial laboratory commissioned and operating.

BREASTEST[™] holds strong and growing Intellectual Property Protection.

Initial roll out planned for 2HCY24 in Australia, followed by US, Europe and broader APAC.

Board of Directors



Jayne Shaw Executive Chair

Successful businesswoman, entrepreneur and co-founder. Previously co-founder and owner of the Sydney Breast Clinic.



Hon Ron Phillips AO Non-executive Director

Health policy expert, previously Minister for Health in NSW Parliament and co-founder and owner of the Sydney Breast Clinic.



Jonathan Trollip Independent Non-executive Director

International businessman and lawyer. Many years of experience as NED of large ASX-listed companies.



Dr. Merilyn Sleigh Independent Non-executive Director

Over 30 years' experience as a senior executive and non-executive director in Australia's biotechnology sector and academia.





Mark Burrows AO Independent Non-executive director

An advocate for early diagnosis of breast cancer and other cancers. International banking expert and has held positions of Chairman and NED of major ASX listed corporations.

Executive Team - Australia



Dr. John Hurrell, PhD Chief Executive Officer

More than 35 years' experience in life sciences & healthcare. Has developed & successfully commercialised multiple products & services as well as managing start up/early-stage companies.



Dr. Amani Batarseh, PhD Chief Scientific Officer

PhD from Georgetown University, Washington, DC Completed postdoctoral studies at Harvard, McGill and Wollongong Universities. Expert in molecular biology lipidomics and mass spectrometry.



Guy Robertson Chief Financial Officer & Company Secretary

A Finance Director/Chief Financial Officer for a number of companies within the Jardine Matheson Group over a period of 16 years. Provides CFO and company secretary consulting services to many large corporations and SMEs.



Alison Cook (Mew), MSc Regulatory and Quality Manager

Management and leadership experience of more than 30 years across the biopharmaceutical, diagnostic and health service sectors. Spent 13 years in senior executive roles at CSL Limited. Consulted widely across the life sciences industry.



Amanda Koegelenberg M.BioTech. M. Comm. Director, Clinical Affairs

Former Associate Director of Research, Research Program Director for NSW Health Pathology. Extensive experience in Biobank development and clinical research. Has managed multisite clinical studies including sites outside Australia.



Kathy Koskiris BSc. MBA. Director, Clinical Laboratory Services

More than 20 years' experience in building and managing clinical laboratories under TGA and US CLIA regulations. Managed CLIA certification for multiple new products, CLEP certification and NATA Accreditation with ISO15189 & NPAAC standards.

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Key People - USA







More than 35 years' experience in life sciences & healthcare. Has developed & successfully commercialised multiple products & services and managed start up/early-stage companies.



Dr. Kim Ekroos, PhD Scientific Advisor

Founder and CEO of Lipidomics Consulting Ltd., a global consulting business in the field of Lipidomics with over 20 years' experience.



Dr. David Peake, PhD Scientific Lead, Technology Transfer

Expert in Lipidomics and mass spectrometry. Expertise with both qualitative and quantitative methods



Dr. Raji Pillai, PhD Regulatory Consultant

Expertise in developing innovative molecular diagnostics under FDA and CLIA regulations, and fielding effective interactions with regulatory agencies.



David Darling Consultant

EX CEO of Pacific Edge, a NZX50 business focused on commercialising its bladder cancer diagnostics tests in global markets. David has a background as a scientist, with a specality in genetics.

Clinical and Scientific advisors - Australia



A/Prof. Craig Gedye BSc(Hons), MBChB, FRACP, PhD

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A medical oncologist and cancer researcher at the Calvary Mater Newcastle, and is the Clinical Research Director at the NSW Health Statewide Biobank.



Dr. Sanjay Warrier (Associate Prof.) BSc (Med) MBBS FRACS MS

Consultant Breast Oncology and Oncoplastic Surgeon at Chris O'Brien Lifehouse, Royal Prince Alfred and Mater Hospitals. He is also a Visiting Medical Officer at BreastScreen NSW.



Dr. Gillian Lamoury BMed FRANZCR, Radiation Oncologist

Gillian is a dedicated radiation oncologist with clinical interests in breast cancer, sarcoma, and lymphoma.

Gillian is a dynamic and thoughtful clinician who is passionate about offering personalised patient care. She collaborates with her patients to build individualised care plans that integrate evidence-based treatment and modern techniques.

Gillian is a dedicated teacher and lecturer of medical students at the Northern Clinical School, and she is a conjoint senior lecturer with the University of Sydney.



Prof. Dr. Mary Rickard AO

A leading expert in mammography. Involved in consulting with numerous breast screening and diagnostic training programs across South East Asia.



Prof. Peter Meikle, PhD Baker Institute

NHMRC Senior Research Fellow Leads the Obesity and Diabetes Program and is Head ot the Metabolomics laboratory.



The greatest challenges in detecting and managing breast cancer in young women are:

- 1. There are no effective breast screening options available for young women.
- There is no complementary technology OR education alternatives for breast screening or testing for young women.
 Therefore, the probability of detecting and appropriately managing breast cancer in young women is poor.

Rachelle Panitz, diagnosed with breast cancer aged 32 Founder of the young breast cancer patient advocacy group SoBrave, sobrave.org.au

Intended use at launch: BREASTEST[™] will have a significant impact on these high-risk patients

. diagnostics



Patients with abnormal mammograms requiring further investigation.

In 2021, a total of 192,529 women in Australia over the age

(Breast Screen Australia 2022 Report)





High risk dense breast population.

Half of women aged below 50 have "dense or very dense breasts". Breast density makes the interpretation of mammograms more difficult, while the incidence of cancer in women increases with the level of density of their breasts.

Correlation between dense breasts and risk of cancer.

In 2021, there were 1,671,420 women in Australia between 40 and 50 years-old.

(Australian Bureau of Statistics Report 2022)

Patients with known genetic risk of breast cancer.

BREASTEST[™] could allow more frequent testing without the additional exposure to radiation or the cost and access difficulty of an MRI. There are about 10,000 women in Australia with a mutation in their BRCA genes which puts them at high risk.

Long term intended use objectives

BREASTEST[™] targeting large and diverse groups of at-risk patients

Patients who do not currently get screened.

Patients with abnormal mammography findings. It is estimated that up to 90% of patients with initial abnormal mammography findings are ultimately classified as negative for breast cancer.

High risk patients requiring more intense monitoring or diagnosis.

Presence of cancer after treatment. There currently are no diagnostic offerings to determine if a patient is cancer-free after treatment.

Monitoring for recurrence of disease.

BCAL DIAGNOSTICS LIMITED

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BCAL's state-of-the-art lipid test BREASTESTTM with automated analysis



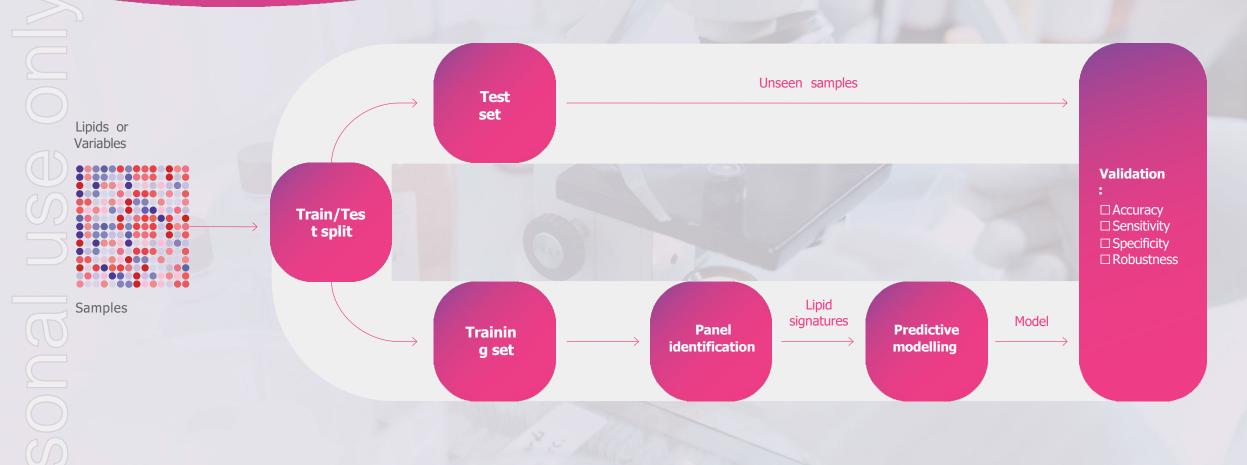
BREASTEST[™]

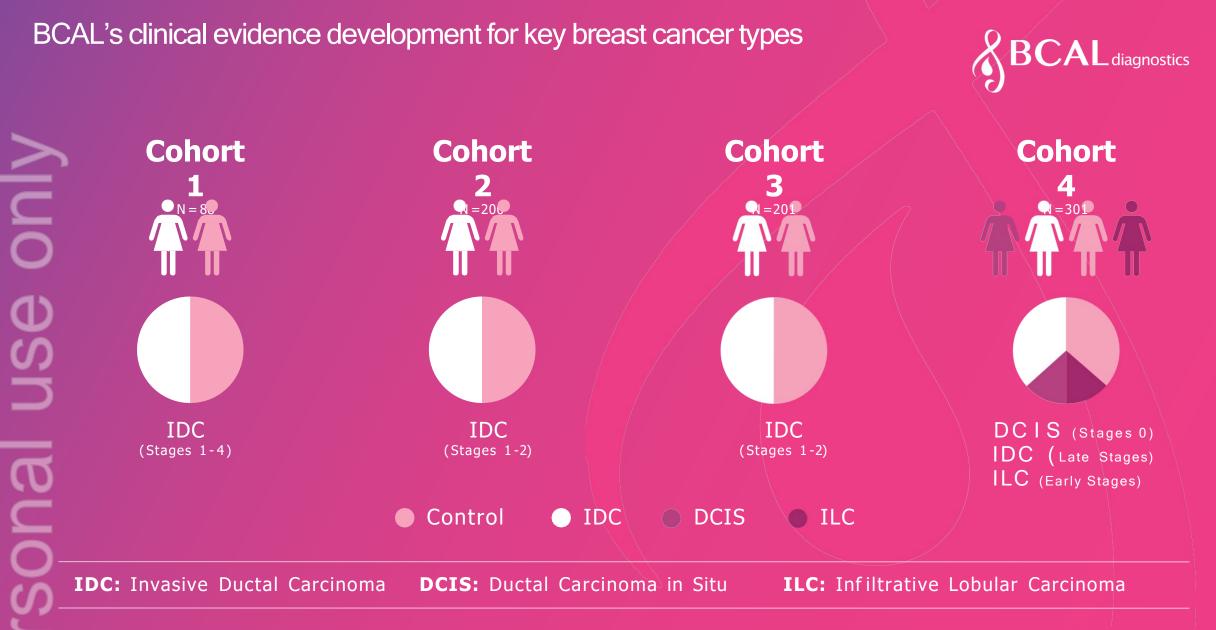
Transit At collection centre At testing laboratory Plasma Erythrocytes Whole Blood Blood Pre-processing: sample Sample preparation: Sample Analysis: Extracts Data analysis for collection spin, separate and freeze plasma lipid analysed using Liquid breast cancer lipid Chromatography Mass signatures (presence extraction Spectrometry (LCMS) or absence)

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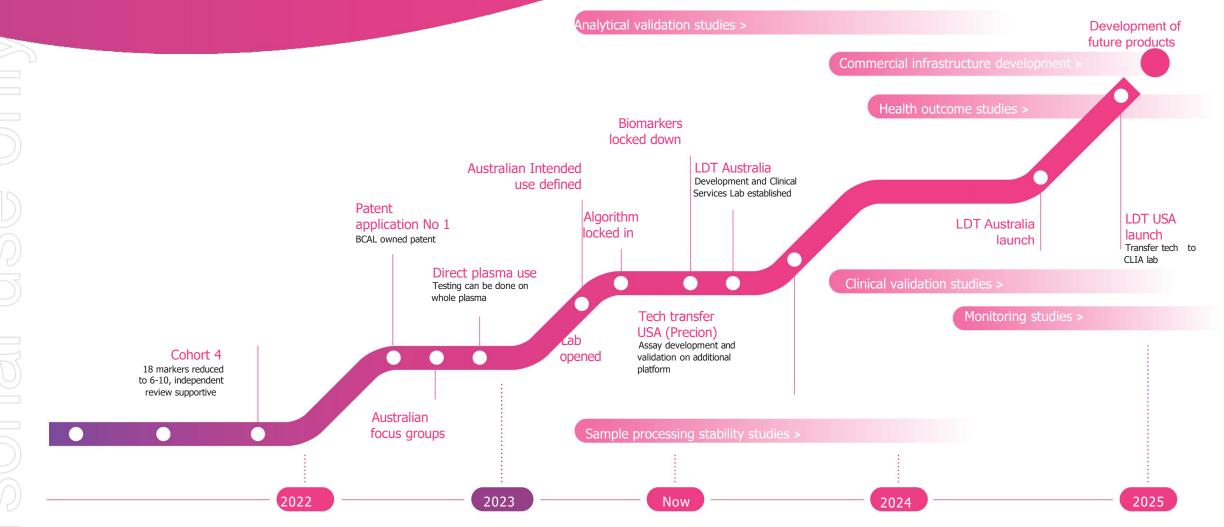
Discovery pipeline: using AI/machine learning techniques to develop diagnostic algorithms







Journey to commercial launch and revenue



BCAL DIAGNOSTICS LIMITED

Commercial market launch in Australia is on-track for 2024

BREASTEST™ commercialisation pathway will include Medicare reimbursement in Australia (we expect soon after launch), out-of-pocket payment in New Zealand. The USA is Medicare (USA) for all patients over 65 years, private payer insurance for those not insured or covered. Retail price for Australia and New Zealand is currently expected to be around AUD\$350.

DIAGNOSTICS LIMITED



BREASTEST[™] has strong and growing Intellectual Property Protection



Status	Country	Application Title	Filing Date	Patent Number
Issued*	Australia	Methods for Detecting Cancer	Jan 7, 2013	AU Pat. No. 2011270968
	Australia	Methods for Detecting Cancer	Aug 12, 2016	AU Pat. No. 2016213855
	Japan	Methods for Detecting Cancer	Dec 20, 2012	JP Patent No. 5944385
	Japan	Methods for Detecting Cancer	May 29, 2015	JP Patent No. 6092302
	Europe FR,NL,GB,IT,DE,ES	Methods for Detecting Cancer	Jan 23, 2013	EP Pat. No. EP 2585833
	Europe FR,NL,GB,IT,DE,ES	Methods for Detecting Cancer	Mar 27, 2017	EP Pat. No. EP 3206034
2	Hong Kong	Methods for Detecting Cancer	Jul 5, 2103	HK Pat. No. 1180764
2	Hong Kong	Methods for Detecting Cancer	Jul 5, 2103	HK Pat. No. 1180764 Application Number
5	Hong Kong Canada	Methods for Detecting Cancer Methods for Detecting Cancer	Jul 5, 2103 Dec 21, 2012	
S Dending*				Application Number
Pending*	Canada	Methods for Detecting Cancer	Dec 21, 2012	Application Number CA 2,803,865
Pending*	Canada US	Methods for Detecting Cancer Methods for Detecting Cancer	Dec 21, 2012 Jul 15, 2021	Application Number CA 2,803,865 US 17/305,824
Pending*	Canada US Europe	Methods for Detecting Cancer Methods for Detecting Cancer Methods for Detecting Cancer	Dec 21, 2012 Jul 15, 2021 Sep 29, 2021	Application Number CA 2,803,865 US 17/305,824 EP 21200018.6

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Thank You

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