



Institutional Presentation

15 December 2022 ASX:RHY

A transformative and predictive cancer diagnostics technology company

rhythmbio.com

Disclaimer



This presentation has been prepared by Rhythm Biosciences Limited (Rhythm) and is provided for general information purposes only. No party other than Rhythm has authorised or caused the issue of this document, or takes responsibility for, or makes any statements, representations or undertakings in this presentation.

This presentation is not intended to be relied upon as advice to investors or potential investors and does not take into account the investment objectives, financial situation or needs of any particular investor. Rhythm makes no warranty or representation (express or implied) as to the accuracy, reliability or completeness of the information contained in this presentation. Specifically, several matters referred to in the presentation remain under investigation and are subject to change or even elimination, depending on further research and investigation. Further, any opinions (including any forward-looking statements) expressed in this presentation are subject to change without notice. Rhythm and its directors, officers, employees, advisers and agents shall have no liability (including liability to any person by reason of negligence or negligent misstatement) for any statements, opinions, information or matters (express or implied) arising out of, contained in or derived from or for any omissions from this presentation, except liability under statute that cannot be excluded.

This presentation, including the information contained in this disclaimer, does not form part of any offer, invitation or recommendation in respect of shares, or an offer, invitation or recommendation to sell, or a solicitation of any offer to buy, shares in the United States, or in any other jurisdiction in which, or to any person to whom, such an offer would be illegal.

This presentation may include forward-looking statements. Forward-looking statements are only predictions and are subject to known and unknown risks, uncertainties and assumptions, many of which are outside the control of Rhythm. Actual values, results or events may be materially different to those expressed or implied in this presentation depending on a range of factors. Given these uncertainties, recipients are cautioned not to place reliance on forward-looking statements. No representation or warranty (express or implied) is made by Rhythm or any of its directors, officers, employees, advisers or agents that any forecasts, projections, intentions, expectations or plans set out in this presentation will be achieved.





Rhythm's initial product, ColoSTAT[®] is a simple, affordable and highly accurate blood test for the detection of colorectal cancer for global mass-market screening.

IP protection secured in all major international jurisdictions.

Market-ready with operational revenues expected in FY'23.

Commenced **platform technology** program for multiple / pan cancer targets.

ColoSTAT[®] Highlights



Global addressable market – initial \$39bn, 771m population

Performance better than market standard 81% Sens. / 91% Spec.

Operational revenues & commercial partnerships expected in FY'23

Disruptive and transformative technology

More affordable and easier to administer

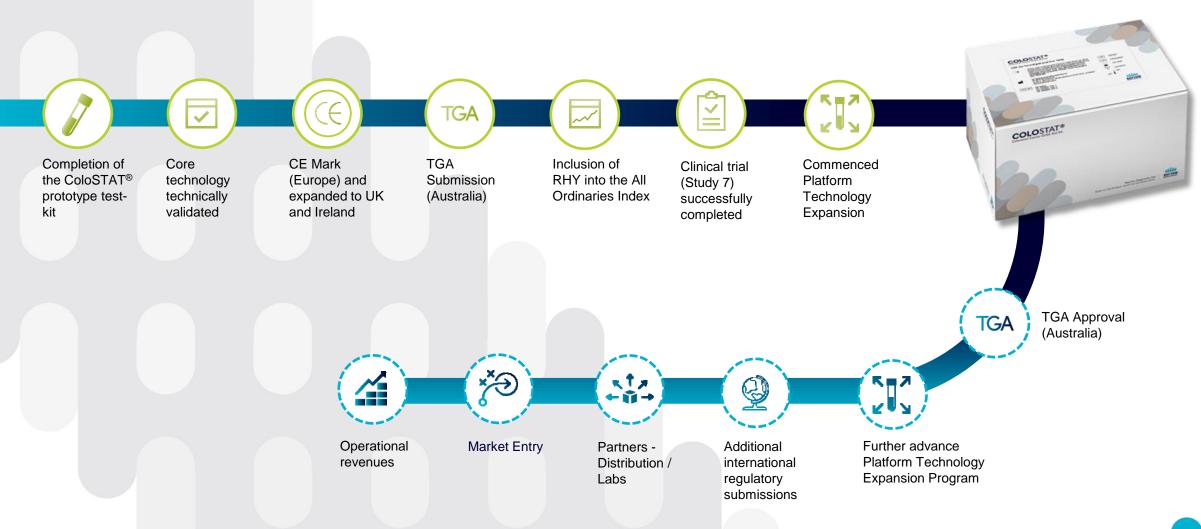
Manufacturing & Patents secured

CE Mark / Medsafe Approved (Europe & NZ)

TGA under review – Imminent (Australia)

Platform Technology Expansion Underway

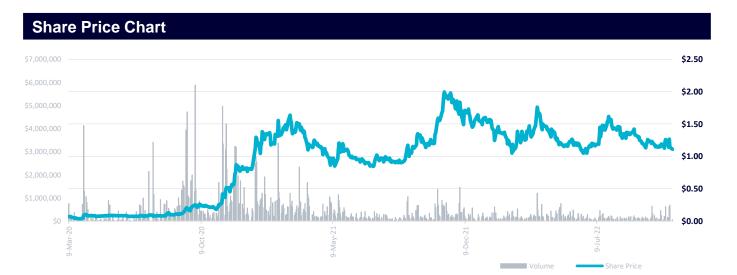
Milestones Delivered and Future Catalysts



Company Overview



Capital Structure	
ASX Code	RHY
Share Price (at 9 December 2022)	\$1.11
Shares on Issue	216.7 M
Unlisted Options	16.8 M
Market Capitalisation	\$241.1 M
Cash in bank (31 October 2022)	\$11.2M
Top 20 Shareholders	42%



Board and Management

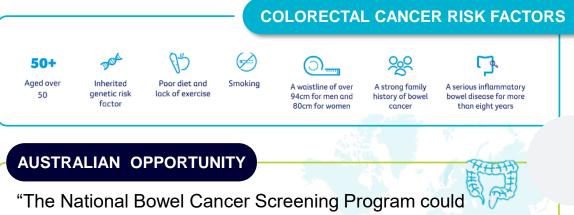
Otto Buttula	Glenn Gilbert	Trevor Lockett	Lou Panaccio	Rachel David
Executive Chairman	CEO & Managing Director	Executive – Technical Director	Non-Executive Director	Non-Executive Director
 Extensive financial, investment, IT and biotech experience. Co-Founder and CEO of IWL (ASX: IWL); Founder / former CEO of Investors Mutual. Formerly a Director of Imugene (ASX: IMU) and Chairman of Investorfirst, now HUB (ASX: HUB). Chairman of HITIQ (ASX: HIQ) and Oncosil Medical (ASX: OSL). 	Former Head of Global Sales, Marketing and BD at Medical Developments Int. (ASX: MVP). Various leadership positions at CSL (ASX: CSL). Strong Legal, IP & Operational management. Broad international business experience.	Leader – Personalised Health Group CSIRO. Inventor on seven commercially-licensed • patent families. •	Non-executive Director of Sonic Healthcare (ASX: SHL).	 Currently the Chief Executive Officer (CEO) of Private Healthcare Australia (PHA). Previously: Senior Director Government Affairs, Policy and Market Access for Johnson & Johnson. Various senior roles with McKinsey, CSL and Pfizer (formally Wyeth).

Colorectal Cancer (CRC)

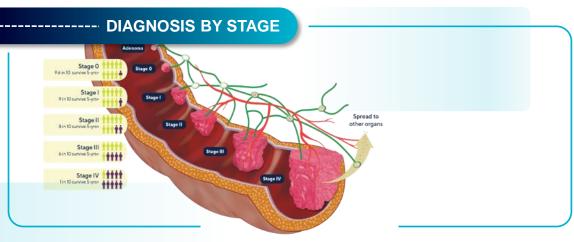


Globally, Colorectal Cancer is currently the 3rd largest cancer by volume with 1.93 million new cases diagnosed annually and 2nd largest cause of cancer related deaths





"The National Bowel Cancer Screening Program could prevent 84,000 bowel cancer deaths by 2040 if participation rates were increased to 60%" *Cancer Council Australia*^



CURRENT TESTING & SCREENING REGIME

In most countries, screening is recommended for those aged between 50-74 years old, with the primary method being a faecal test (FIT), which is designed to test only for blood in the stool.

Early detection is key to survival

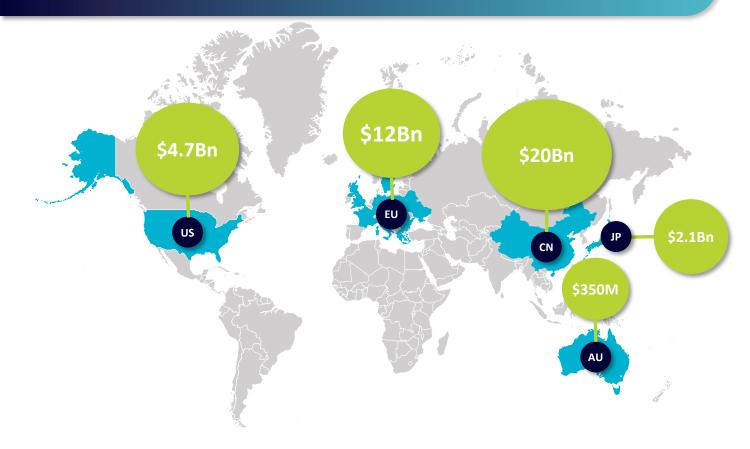


Source: Xi Y, Xu P (2021), Global colorectal cancer burden in 2020 and projections to 2040, Translational Oncology, 14(10), 101174, doi:10.1016/j.tranon.2021.101174 Epub 2021 Jul 6. Source: ³ Cancer Council 2021/22 Pre Budget Submission (page 6) - <u>https://treasury.gov.au/sites/default/files/2021-05/171663 cancer council australia.pdf https://www.aihw.gov.au/reports/cancer-screening/national-cancer-screening-pro participation/contents/summary https://www.canceraustralia.gov.au/cancer-types/bowel-cancer/statistics#:~:text=In%202022%2C%20it%20is%20estimated,8%2C300%20males%20and%207%2C413%20females)</u>

rhythmbio.com

Market Opportunity / Addressable Market

US\$39 billion addressable screening value in priority markets¹



Colorectal Cancer Screening Market Population

Number of people over 50 years of age eligible for screening

Country	Screening participation	Addressable population
United States	63%	94 million ²
Europe	38%	231 million ³
China	19%	397 million ⁴
Japan	38%	42 million ⁴
Australia	41%	7 million ⁵
Total		771 million people

Potential to reach ~1 billion people when the screening age is lowered to 45 years old

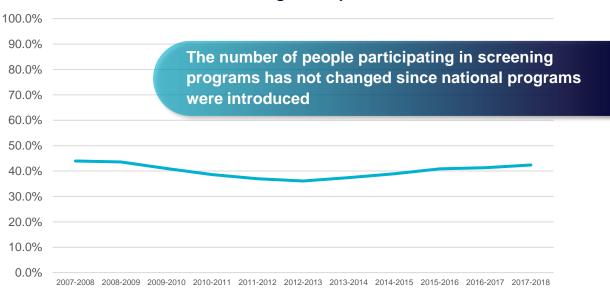
8

Poor acceptability of faecal tests is a significant limitation to the performance of current CRC screening

Patients report inconvenience of sample collection, aversion with the procedure and general fear as significant barriers to CRC screening¹⁻³

An observational study¹ in over 1,000 people in the US who received FIT kits reported that:





CRC Screening Participation in Australia⁴

Abbreviations: CRC, colorectal cancer; FIT, faecal tes

†FIT non-users were defined as people who received the FIT but did not complete it. ± FIT users defined as people who received and complete the FIT.

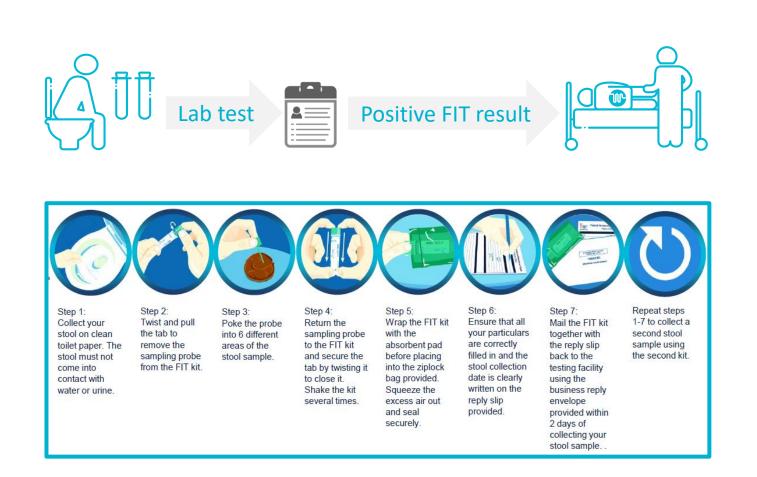
¹ Gordon NP, Green BB. Factors associated with use and non-use of the Faecal Immunochemical Test (FIT) kit for Colorectal Cancer Screening in Response to a 2012 outreach screening program: a survey study. BMC Public Health. 2015 Jun 11;15:546. 2. Osborne JM, Flight I, Wilson CJ, Chen G, Ratcliffe J, Young GP. The impact of sample type and procedural attributes on relative acceptability of different colorectal cancer screening regimens. Patient Prefer Adherence. 2018;12:1825-36. 3. Muthukrishnan M, Arnold LD, James AS. Patients' self-reported barriers to colon cancer screening in federally qualified health center settings. Prev Med Rep. 2019 Sep;15:100896.6

⁴ National Cancer Control Indicators - https://ncci.canceraustralia.gov.au/screening/colorectal-screening-rates/colorectal-screening-rate-participation

Current CRC screening involves the use of a faecal test followed by colonoscopy

HH

Abbreviations: CRC, colorectal cancer; FIT, faecal test

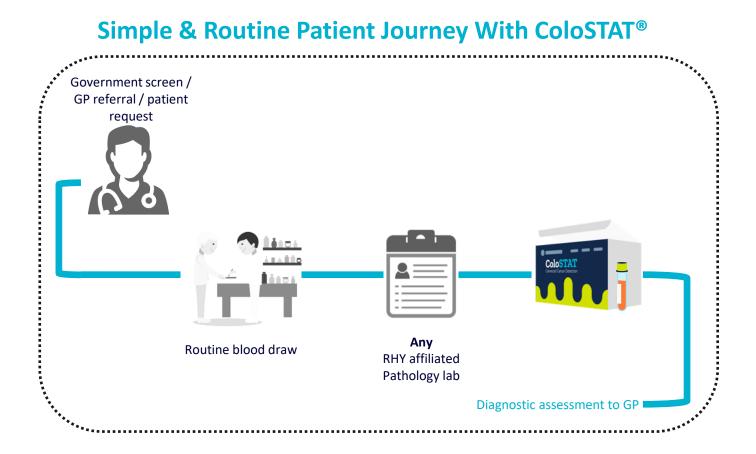


The FIT pathway consists of a cumbersome multi-step screening process which has a number of limitations¹⁻²:

- Self-administered test involving an inconvenient and unpleasant sample collection requiring faecal handling¹
- Sample collection and labelling prone to error as done by the patient
- Mailing a stool sample is required
- Sample instability imposes specific organisational constraints, and transport requirements²
- Process may need to be repeated for a subsequent round (e.g., in case of sample errors)³
- Not specific for CRC, may lead to unnecessary colonoscopies
- Unnecessary colonoscopies increase burden on healthcare systems, patients, insurers and government

ColoSTAT[®] - Patient Friendly, Increased Compliance

Early detection is the key to survival and reducing the cost of treatment



ColoSTAT® has the potential to:

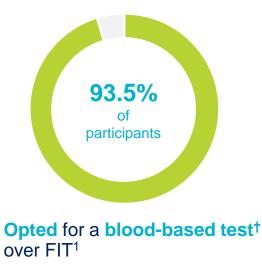
- Improve participation in screening and achieve early diagnosis.
- Improve patient outcomes and survival rates.
- Reduce healthcare resource use and unnecessary costly treatments.
- Improves the doctor/patient relationship.

Blood-based tests, such as ColoSTAT[®], are preferred by patients over FIT as they provide a more acceptable way to participate in testing

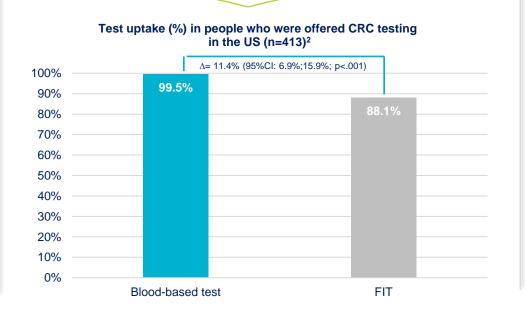
HHH

Blood-based tests are **preferred** over **faecal tests (FIT)** by **78–93%** of people who are offered CRT testing¹⁻⁵, with ease and convenience being the main reasons for their preference³⁻⁴

In an observational study among 460 people in the US who were offered CRC testing¹:



Abbreviations: CRC, colorectal cancer; FIT, faecal test †Blood-based test offered was Septin9 DNA blood test (Epi proColon®) In a randomised controlled trial, **test uptake** was **significantly higher** with a **blood-based test†** than with FIT (p<0.001)²



Patient-reported reasons for preferring blood-based options³⁻⁴:

- Convenience of a blood draw in the physician's office (74%; 67/90 patients)
- Ease/comfort of a blood test (78%; 71/90 patients)
- Lower time requirement vs FIT (48%; 43/90 patients)

1. Joannou S, Sutherland K, Sussman DA, Deshpande AR. Increasing uptake of colon cancer screening in a medically underserved population with the addition of blood-based testing. BMC Cancer. 2021 Aug 28;21(1):966. 2.Liles GL, Coronado GD, Perrin N, Howell Harte A, Nungesser R, Quigley N, et al. Uptake of a colorectal cancer screening blood test is higher than of a fecal test offered in clinic: A randomized trial. Cancer Treatment and Research Communications. 2017;10:27-31. 3.Lamb YN, Dhillon S. Epi proColon((R)) 2.0 CE: A Blood-Based Screening Test for Colorectal Cancer. Mol Diagn Ther. 2017 Apr;21(2):225-32. 5.Adler A, Geiger S, Keil A, Bias H, Schatz P, deVos T, et al. Improving compliance to colorectal cancer screening blood and stool based tests in patients refusing screening colonoscopy in Germany. BMC Gastroenterol. 2014 Oct 17;14:183. 6Osborne JM, Wilson C, Moore V, Gregory T, Flight I, Young G. Sample preference for colorectal cancer screening tests: Blood or stool? Open Journal of Preventive Medicine. 2012;2(3):326-31.

ColoSTAT[®] - What Is It? How Does It Work?

Unlike the FIT, ColoSTAT[®] is specific for colorectal cancer – not just blood in faeces.

How it works

Sample

Blood collected via a simple,

routine blood draw.

ColoSTAT[®] could be added to the

standard panel of referred tests a

GP completes for routine and

annual check ups.

ColoSTAT[®] Technology

Low cost assay format which is designed to integrate with existing pathology lab infrastructure.

ColoSTAT® Test-Kit

Algorithm

Detects protein biomarkers in the blood that are indicative of an increased likelihood of presence of colorectal cancer.

ColoSTAT® analyses & consolidates individual biomarker results simultaneously, using its developed algorithm, to provide an indication of the likelihood of presence of colorectal cancer.

is required i.e., colonoscopy.

The result is sent to the

patient's doctor for review &

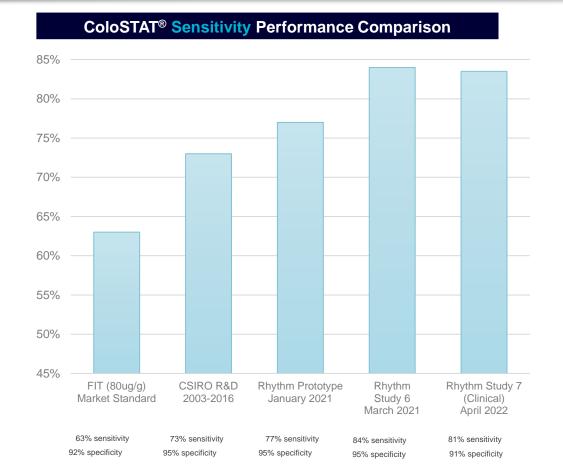
assessment if further action

Result

ColoSTAT® Performance



ColoSTAT® is expected to increase participation, leading to earlier detection and avoiding costly treatments



Highly Accurate

ColoSTAT[®] was shown to be **35% more accurate** at detecting colorectal cancer than the current market standard Faecal Immunochemical Test (FIT).²

ColoSTAT[®] was shown to be **more accurate** at detecting advanced adenomas than the current market standard Faecal Immunochemical Test (FIT)².

Affordable and Simple

Protein biomarker led delivers a cost-efficient simple blood test that is suited to global mass market screening programs.

Detects Cancer

Disruptive technology that detects the presence of cancer in the blood whereas current FIT based testing regimes only detect the presence of blood in a stool sample.

• Preferred

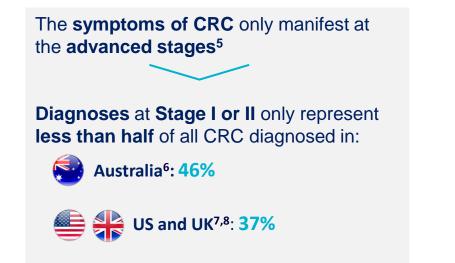
A blood test is preferred as a more acceptable way to participate in testing.

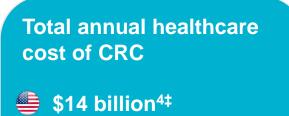
Patient Friendly

Convenient and can be part of routine health control.

Missed detection of early-stage CRC leads to the use of costly healthcare for advanced disease

Colorectal cancer is associated with high healthcare costs which increase with advanced disease stage at diagnosis¹⁻⁴

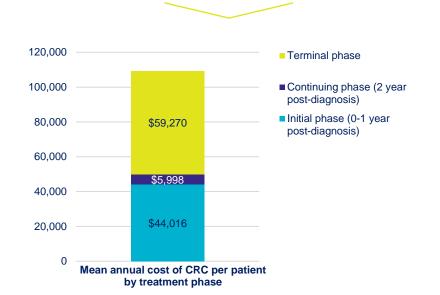




♣ €0.36 billion¹†

Sauce AUS\$1.1 billion^{3§}

In Australia, the estimated annual **cost of treating** a patient with CRC **increases** by ~35% from **initial** phase to **terminal** phase³



When **diagnosed early**, CRC can be **successfully treated** and is associated with **5-year survival rates** of more then **90%**^{6,9-11}

Abbreviations: CRC, colorectal cancer t2015 costs reported in Euros t Based on SEER_Medicare registry data set to estimate spending for patients with CRC enrolled in Medicare fee-for service. Costs reported are in 2013 US\$. \$ 2013 Australian dollars

1.Henderson RH, French D, Maughan T, Adams R, Allemani C, Minicozzi P, et al. The economic burden of colorectal cancer across Europe: a population-based cost-of-illness study. Lancet Gastroenterol Hepatol. 2021 Sep;6(9):709-22. 2.Chen CT, Li L, Brooks G, Hassett M, Schrag D. Medicare spending for breast, prostate, lung, and colorectal cancer patients in the year of diagnosis and year of death. Health Serv Res. 2018;5(4):2118–2132. 3.Goldsbury 2018 4.Mariotto AB, Robin Yabroff K, Shao Y, Feuer EJ, Brown ML. Projections of the cost of cancer care in the United States: 2010–2020. J Natl Cancer Inst. 2011;103(2):117–128.5.Xi Y, Xu P (2021), Global colorectal cancer statistics. Available at: <a href="https://ncci.canceraustralia.gov.au/diagnosis/distribution-cancer-stage/distribution-cancer-s

9.UK colorectal cancer statistics. Available at: https://www.cancer.org/cancer/colon-rectal-cancer/statistics/statistics-by-cancer-type/bowel-cancer/statistics. Available at : https://www.cancer.org/cancer/colon-rectal-cancer/detection-diagnosis-staging/survival-rates.html 11.UK colorectal cancer statistics. Available at : https://www.cancer.org/cancer/colon-rectal-cancer/detection-diagnosis-staging/survival-rates.html 11.UK colorectal cancer statistics. Available at : https://www.cancer.org/cancer/colon-rectal-cancer/detection-diagnosis-staging/survival-rates.html 11.UK colorectal cancer statistics https://www.cancer.net/cancer-types/colorectal-cancer/statistics

Market Likely To Expand Significantly



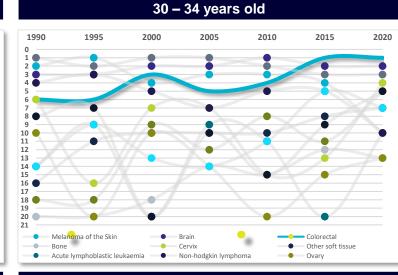
- ✓ USA Preventative Services Task Force recommends Colorectal Cancer Screening to commence at age 45. Five years younger than it previously recommended, adding circa 20 million patients to the screening population in the USA alone.
- Reduction of screening age under 50 years of age is expected to occur in all major global markets.
- ✓ The US Centres for Medicare and Medicaid Services released a draft decision outlining the criteria for the reimbursement of current and future blood-based colorectal cancer screening tests.
- Tests must demonstrate both sensitivity greater than or equal to 74 percent and specificity greater than or equal to 90 percent.

ColoSTAT® would meet the requirements in the US based on both the Study 6 and Study 7 (Rhythm's pivotal, prospective clinical trial) performance.

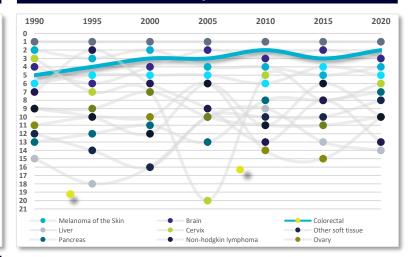
Australia – Growth of CRC in younger age groups

1990 1995 2000 2005 2010 2015 2020 2 🤇 3 4 🦷 5 6 🖲 8 9 🛑 10 11 12 🖝 13 14 15 🌑 16 17 18 19 20 21 Melanoma of the Skin Brain Colorectal -Bone Cervix Other soft tissue Acute lymphoblastic leukaemia Non-hodgkin lymphoma Acute myeloid leukaemia

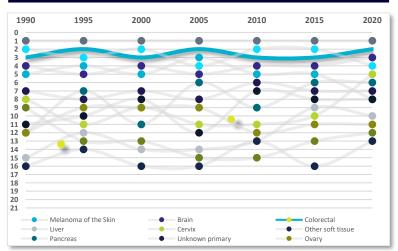
25 - 29 years old



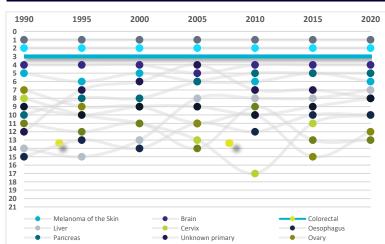
35 – 39 years old



40 - 44 years old



45 - 49 years old



Colorectal Cancer is the #1 cause of death in 25–34-year-olds.

Top 2 cause of cancer related deaths below the age of 50.

Source: Australian Institute of Health and Welfare (AIHW). Cancer data in Australia - Cancer rankings data visualisation. <u>https://www.aihw.gov.au/reports/cancer/cancer-data-in-</u> australia/contents/cancer-rankings-data-visualisation

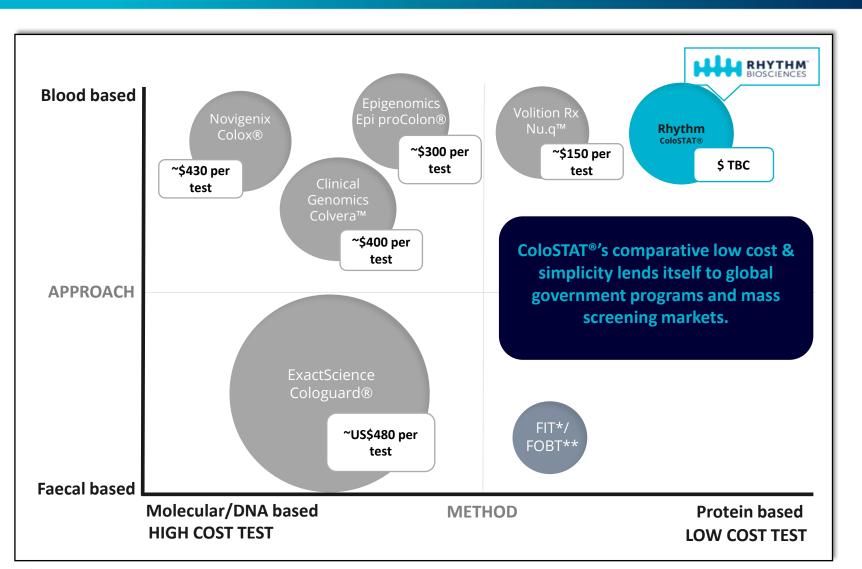
rhythmbio.com

Unique Opportunity To Add Significant Value

Seamless alignment across the entire value chain providing broader benefits for the health system

(Ŷ	Patients	0	Blood test is the preferred testing method.	θ	Increased participation in screening.	
		Government	0	Cheaper testing leads to higher availability.	θ	More lives saved. Reduced economic & social burden.	
		Health Insurers	0	Reduction in unnecessary colonoscopy procedures.	θ	Reduced claims costs. Increased member engagement.	
		Health System	0	Reduction in unnecessary procedures.	8	More resources and beds available to prioritise urgent cases.	
		Laboratories	•	Technology fits existing pathology infrastructure.	θ	No additional equipment or training required.	
		GP/Doctors	0	Test managed via a doctor referral.	8	More relevant contact with patients for better health outcomes.	

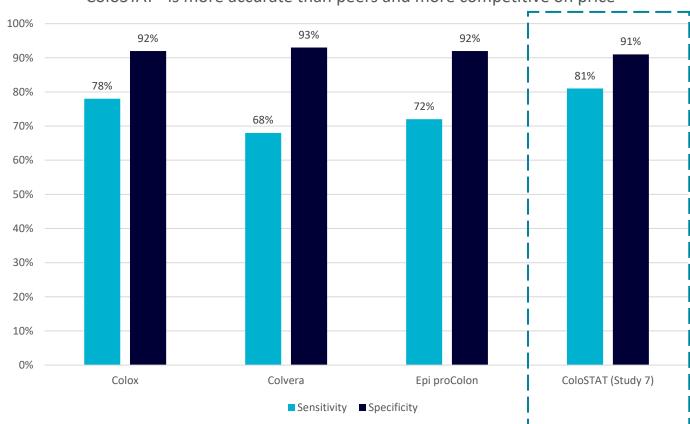
Competitive Landscape – ColoSTAT[®]'s Advantage



• FIT = Faecal Immunochemical Test

** FOBT = Faecal Occult Blood Test

Competitive Landscape – ColoSTAT®'s Advantage



ColoSTAT[®] is more accurate than peers and more competitive on price

Performance / accuracy of ColoSTAT[®] versus other more expensive, competitor, blood-based tests

Market Entry Strategy





Rhythm's strategy is underpinned by:

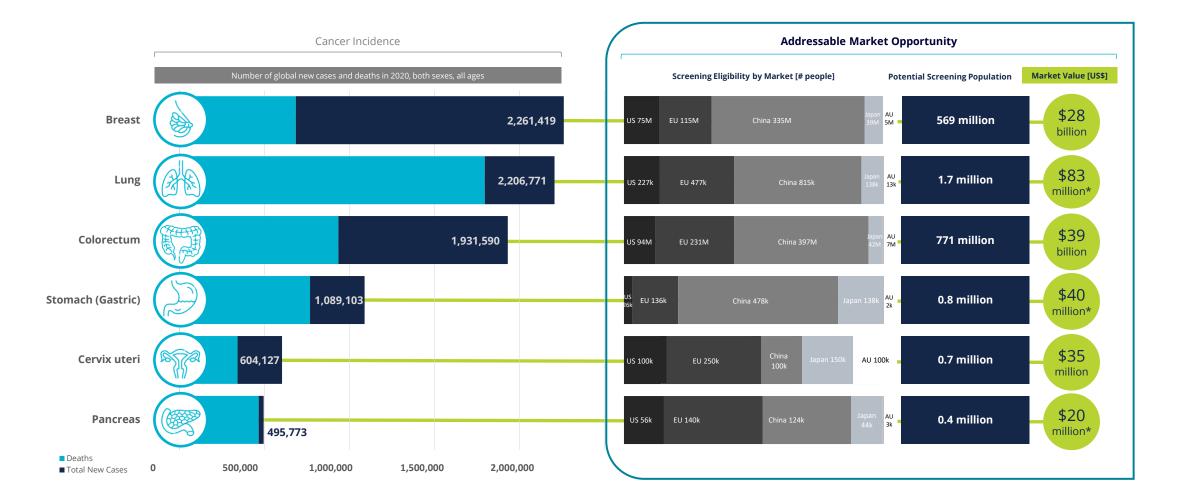
- Proven technology
- Global manufacturing capability
- Establish partner networks
- Secure commercialisation pathway/s
- Partnerships in various global jurisdictions
- ✓ USA Two mainstream pathways:
 - Lab Developed Test (LDT) via a CLIA Lab;
 - FDA route.
- Regulatory Review additional country submissions for approval. Initially those that recognise the granting of a CE Mark and/or TGA approval.

Platform Technology Expansion



- The expansion program is expected to be significantly shortened, leveraging the Company's lead biomarker which exhibits **pan-cancerous** properties;
- A platform expansion program identified a number of additional cancer target markets that have formed a new Research and Development program designed to follow a similar development pathway to ColoSTAT^{®;}
- The initial five additional cancers to be targeted include:
 - ✓ Breast;
 - ✓ Cervical;
 - ✓ Lung;
 - ✓ Gastric; and
 - Pancreatic.
- Expedited program commenced, significant upside potential;
- Creates opportunity for collaboration and non-dilutive grants; and
- Complements Rhythm's affordable, global mass market cancer diagnostics strategy.

Global Market Opportunity – Platform Expansion





RHYTHM BIOSCIENCES

Glenn Gilbert CEO and Managing Director, Rhythm Biosciences glenn.gilbert@rhythmbio.com +61 3 8256 2880