



Institutional Presentation

25 January 2023 ASX:RHY

A transformative and predictive cancer diagnostics technology company

rhythmbio.com

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Introduction



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

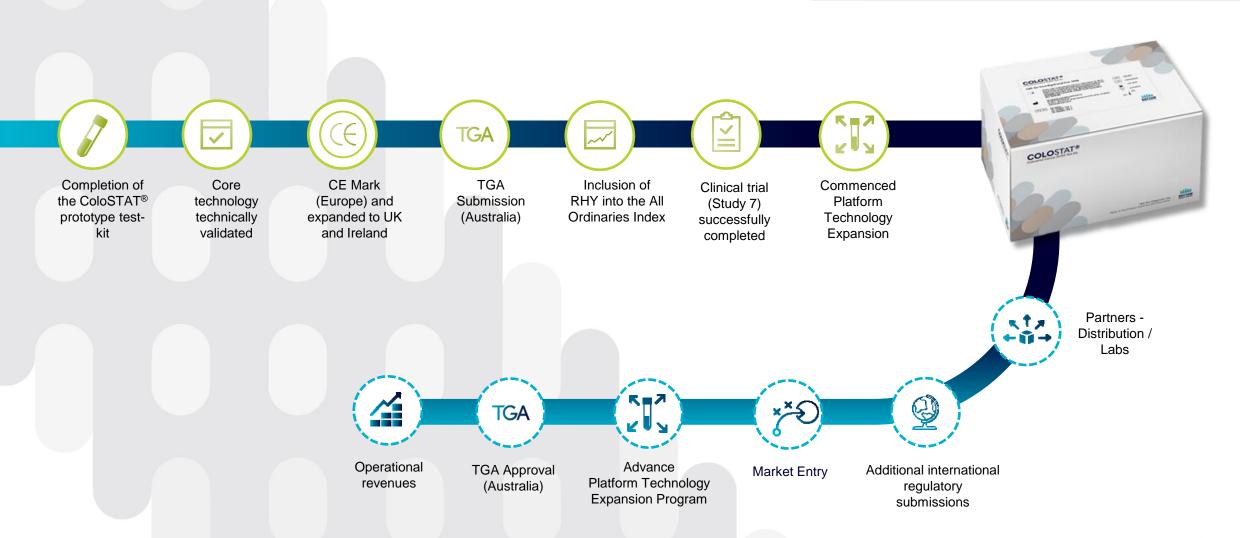
CE Mark / Medsafe Approved (Europe & NZ)

TGA under review – Imminent (Australia)

Platform Technology Expansion Underway

Milestones Delivered and Future Catalysts

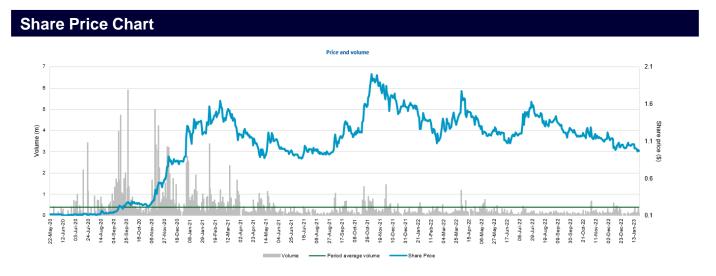




Company Overview



Capital Structure	
ASX Code	RHY
Share Price (at 23 January 2023)	\$0.96
Shares on Issue	217.2 M
Unlisted Options	16.8 M
Market Capitalisation	\$208.5 M
Cash in bank (31 December 2022)	\$8.85M
Top 20 Shareholders	41%



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.	Former Theme Leader Colorectal Cancer and Gut Health CSIRO. 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

















COLORECTAL CANCER RISK FACTORS

50+

Aged over 50



Poor diet and lack of exercise



A waistline of a 94cm for men a 80cm for wom



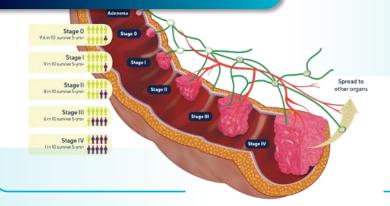
A strong family history of bowel C.

A serious inflammatory bowel disease for more than eight years

AUSTRALIAN OPPORTUNITY

"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?

DIAGNOSIS BY STAGE





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

>90%

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

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

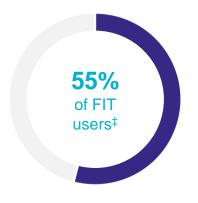


Patients report inconvenience of sample collection, aversion with the procedure and general fear as significant barriers to CRC screening¹⁻³

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

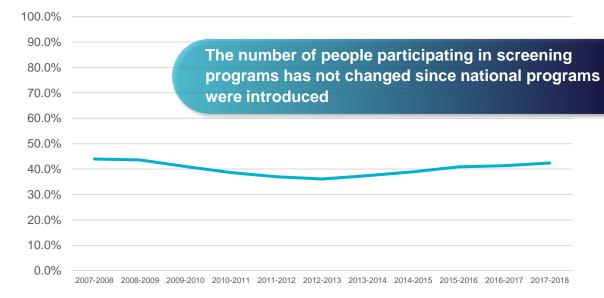


Endorsed feelings of discomfort or disgust when they thought about the process of getting, preparing, and/or mailing the stool sample¹



Recommended changes to the FIT kit to make it easier to use¹

CRC Screening Participation in Australia⁴



Abbreviations: CRC, colorectal cancer; H1, faecal test FIIT 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.

Grodon 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 Septific 100896.6

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

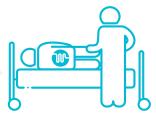


Abbreviations: CRC, colorectal cancer; FIT, faecal test





Positive FIT result









Step 2: Twist and pull the tab to remove the sampling probe from the FIT kit



Poke the probe into 6 different areas of the stool sample.



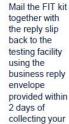
Step 4: Return the sampling probe to the FIT kit and secure the tab by twisting it to close it. Shake the kit

several times.



Step 5: Wrap the FIT kit with the absorbent pad before placing into the ziplock bag provided. Squeeze the excess air out and seal securely

Ensure that all your particulars are correctly filled in and the stool collection date is clearly written on the reply slip provided.



stool sample.





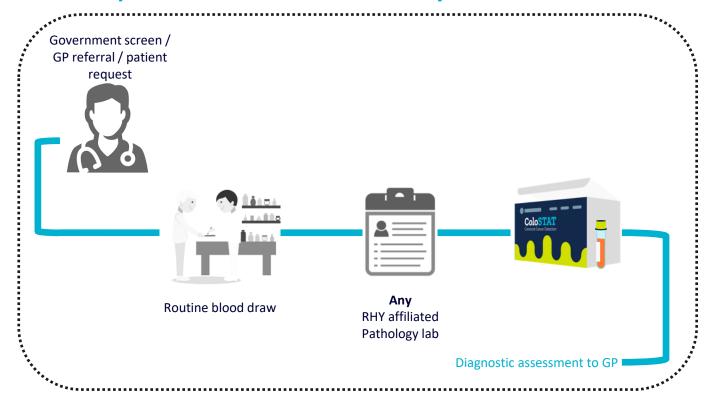
- Self-administered test involving an inconvenient and unpleasant sample collection requiring faecal handling¹
- Sample collection and labelling prone to error as done by the patient
- Mailing a stool sample is required
- Sample instability imposes specific organisational constraints, and transport requirements²
- 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

Simple & Routine Patient Journey With ColoSTAT®



ColoSTAT® has the potential to:

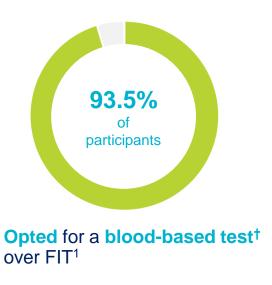
- ✓ Improve participation in screening and achieve early diagnosis.
- ✓ Improve patient outcomes and survival rates.
- ✓ Reduce healthcare resource use and unnecessary costly treatments.
- ✓ Improves the doctor/patient relationship.

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

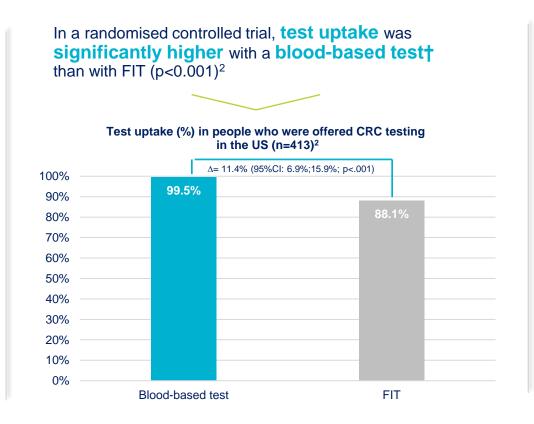


Blood-based tests are preferred over faecal tests (FIT) by 78–93% of people who are offered CRT testing¹⁻⁵, with ease and convenience being the main reasons for their preference³⁻⁴

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®)



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)

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



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



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

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

Algorithm

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

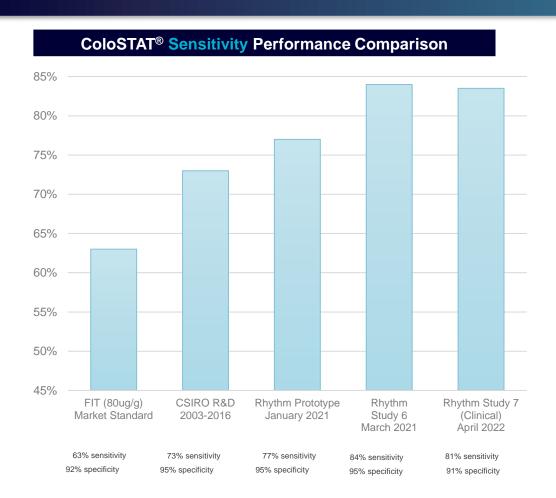


The result is sent to the patient's doctor for review & assessment if further action is required i.e., colonoscopy.

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.

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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

The symptoms of CRC only manifest at the advanced stages⁵



Diagnoses at **Stage I or II** only represent less than half of all CRC diagnosed in:



Australia⁶: 46%



US and UK^{7,8}: 37%

Total annual healthcare cost of CRC



\$14 billion^{4‡}

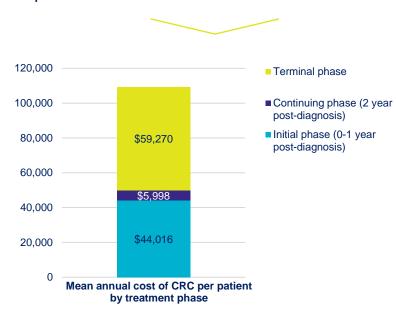


€0.36 billion^{1†}



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}

Market Likely To Expand Significantly

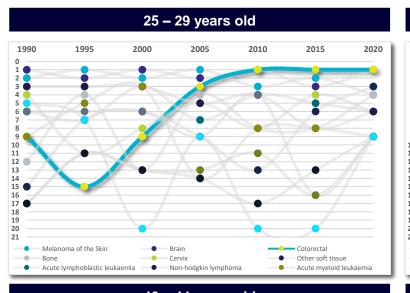


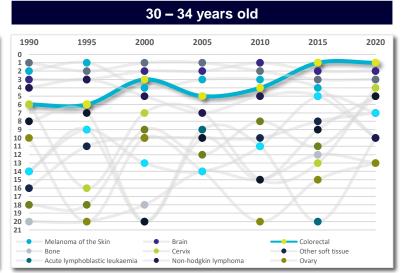
- ✓ USA Preventative Services Task Force recommends Colorectal Cancer Screening to commence at age 45. Five years younger than it previously recommended, adding circa 20 million patients to the screening population in the USA alone.
- ✓ Reduction of screening age under 50 years of age is expected to 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.

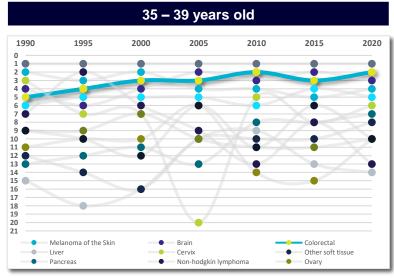
ColoSTAT® would meet the requirements in the US based on both the Study 6 and Study 7 (Rhythm's pivotal, prospective clinical trial) performance.

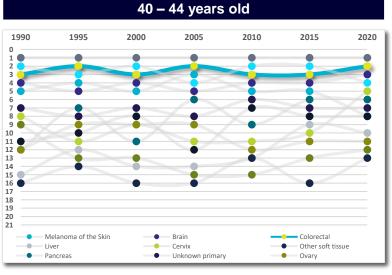
Australia – Growth of CRC in younger age groups

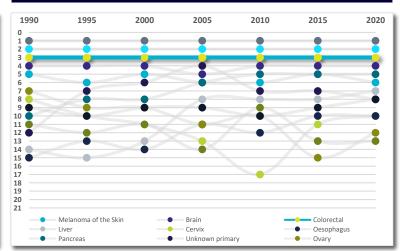












45 - 49 years old

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. https://www.aihw.gov.au/reports/cancer/cancer-data-in-australia/contents/cancer-rankings-data-visualisation

Unique Opportunity To Add Significant Value

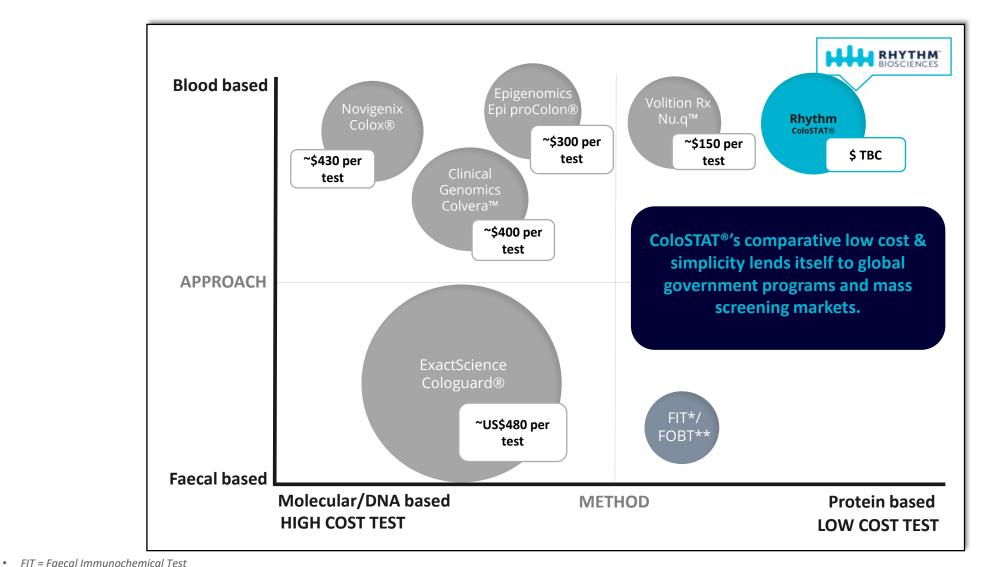


Seamless alignment across the entire value chain providing broader benefits for the health system

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

Competitive Landscape – ColoSTAT®'s Advantage



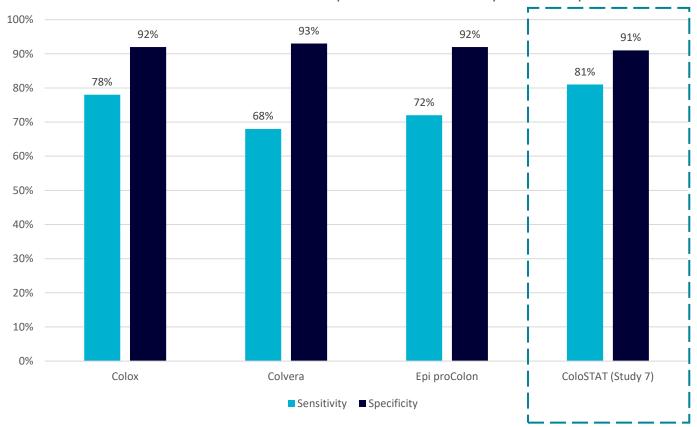


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Competitive Landscape – ColoSTAT®'s Advantage



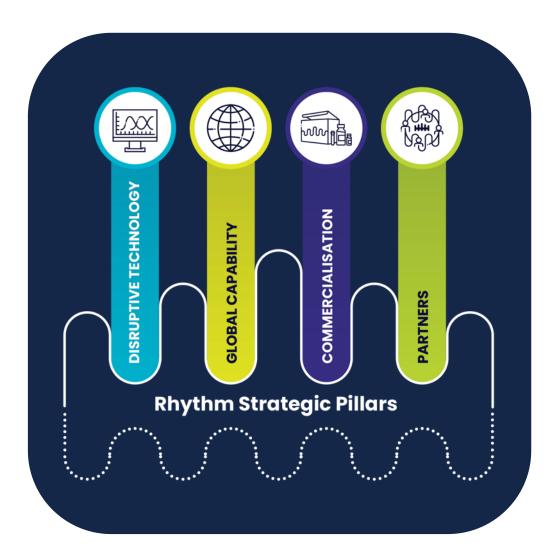




Performance / accuracy of ColoSTAT® versus other more expensive, competitor, blood-based tests

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.

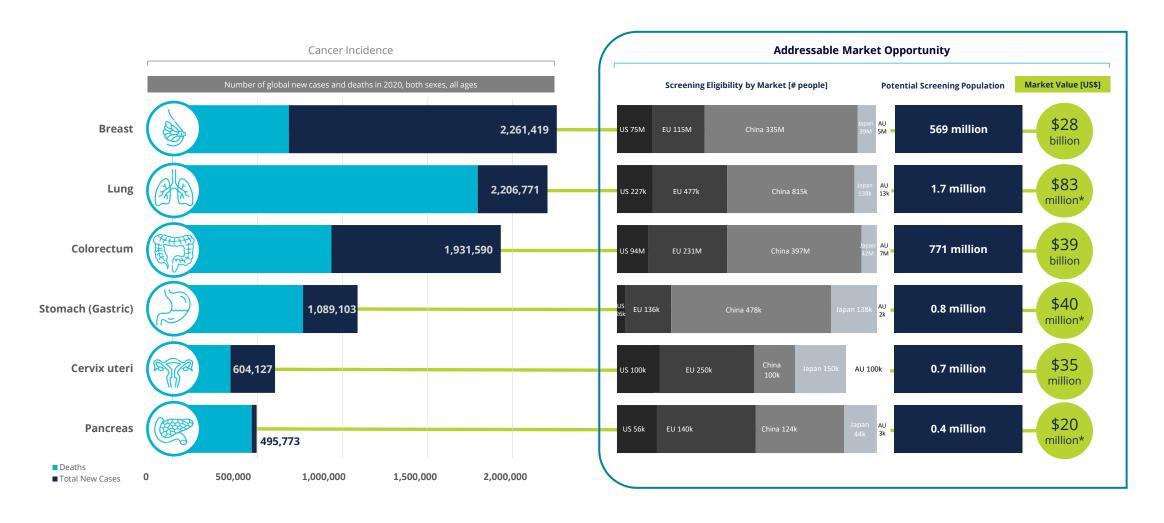
Platform Technology Expansion



- 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





https://www.wcrf.org/cancer-trends/worldwide-cancer-data/#:~:text=Find%20information%20about%20world%20cancer,and%208.8%20million%20in%20women.

Example Test Cost (US\$50). RHY revenue may vary.

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