



Investor Presentation

25 October 2021 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.

Introduction



Rhythm's initial product, ColoSTAT[®] is a **simple**, **low-cost** blood test for the early detection of colorectal cancer for **global mass-market** screening.

IP protection secured in all major international jurisdictions.

Investment Highlights



Disruptive and transformative technology

Significantly cheaper and easier to administer

Globally addressable market

Performance better than market standard

Manufacturing & Patents secured

Initial revenues targeted for 2022

Company Overview



Capital Structure	
ASX Code	RHY
Share Price (at 22 October 2021)	\$1.36
Shares on Issue	208.8 M
Unlisted Options	16.8 M
Market Capitalisation	\$275 M
Cash in bank (30 June 2021)	\$2.23 M (\$10.21 M **)
Top 20 Shareholders	48%

Share Price Chart \$1.80 \$1.60 \$1.40 \$1.20 \$1.00 \$0.80 \$0.60 \$0.40 \$0.20 \$0.00 Volume Share Price

Board and Management

Otto Buttula	Glenn Gilbert	Trevor Lockett	Lou Panaccio	Eduardo Vom	
Chairman	Chief Executive Officer	Executive-Director	Non-Executive Director	Non-Executive Director	
 Extensive financial, investment 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), Non-Executive Director of 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.	Gut Health CSIRO.	 Chairman Avita Medical (ASX: AVH). Director Sonic Healthcare (ASX: SHL). Chairman NeuralDX. Non-executive Director Unison Housing. Former CEO Melb Pathology & Monash IVF. 	 Co-Founder & Executive Director Planet Innovation. Director Atmo Biosciences. Former VP Innovation, Genetic Technologies. Various senior leadership positions Vision BioSystems. 	

Colorectal Cancer





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.

Bowel Cancer Treatment Costs Are Increasing

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

"

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



Cancer Council Australia³

Current FIT Pathway – Cumbersome & Not Well Adopted (<50% compliance globally)



Multi step faecal collection, packaging over at least 2 days then posting sample back to a central laboratory. Obligation on patient to sample and label correctly and to follow up the result with a GP. Patient can determine if they will have a follow up colonoscopy.

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:

- Significantly increase screening compliance globally.
- Save more lives, benefitting the health system and reducing the economic burden.
- Improves the doctor/patient relationship.

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

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

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[®] will analyse & consolidate 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[®] - Detailed Development History



Clinical Trial (Study 7) – Performance In A Clinical Setting

Trial Study Design	End Points			
 Prospective, cross-sectional, multicentre clinical trial. Two cohorts: <u>Cohort 1:</u> Patients with a diagnosis of CRC who are progressing to surgery. <u>Cohort 2:</u> Participants referred for colonoscopy by their physician. Each patient to provide: > ColoSTAT[®] blood test. > Faecal (FIT) test. > Colonoscopy. 	Primary: Performance of ColoSTAT [®] for detection of CRC relative to colonoscopy (Sensitivity and Specificity). Secondary: ColoSTAT [®] performance relative to colonoscopy for: > Advanced adenomas. > Clinically actionable neoplasia. > Comparison to FIT.			
ColoSTAT [®] Clinical Trial to confirm:				

- Performance translates to a clinical setting.
- ✓ Performance against FIT head-to-head.
- ✓ Suitable for mass population screening.
- ✓ Supports TGA regulatory submission.

PATIENT RECRUITMENT SUCCESSFULLY COMPLETED

Next Steps (not exhaustive list):

- Close clinical trial sites. Underway.
- Testing of blood samples at Sonic Clinical Trials.
- Statistical analysis of results.
- Final clinical study report completion.
- Collation of data and study results / report in ColoSTAT[®] technical file.
- Submit technical file and other associated documentation to Therapeutic Goods Administration (TGA).

TGA submission process requires two key filings:

- Manufacturers Evidence documentation. Submitted and accepted; and
- Application for an Australian Register of Therapeutic Goods (ARTG) listing.

ColoSTAT[®] Performance



"83% of unscreened participants prefer a blood test over a faecal test"



Highly accurate

ColoSTAT is 33% more accurate at detecting colorectal cancer than the current market standard Faecal Immunochemical Test (FIT).²

Low Cost 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 detects the presence of blood in a stool sample.

Preferred

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

Market Opportunity / Addressable Market

US\$38 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
Europe	38%	231 million
China	19%	397 million
Japan	38%	42 million
Australia	41%	7 million
Total		771 million people

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

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 Centers 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 the Study 6 performance of 84% sensitivity and 95% specificity.

Australia – Growth of CRC in younger age groups

1990 1995 2000 2005 2010 2015 2020 1 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-australia/contents/cancer-rankings-data-visualisation</u> **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 & societal burden.	
		Health Insurers	0	Reduction in unnecessary colonoscopy procedures.	θ	Reduced claims costs. Increased member engagement.	
		Health System	0	Reduction in unnecessary procedures.	θ	More resources and beds available to prioritise urgent cases.	
		Laboratories	0	Technology fits existing pathology infrastructure.	0	No additional equipment or training required.	
		GP/Doctors	0	Test managed via a doctor referral.	θ	More relevant contact with patients for better health outcomes.	

Market Dynamics





A more effective low-cost screening process is needed to reduce the growing global burden for colorectal cancer.

Competitive Landscape – ColoSTAT[®]'s Advantage



• FIT = Faecal Immunochemical Test ** FOBT = Faecal Occult Blood Test

Competitive Landscape – ColoSTAT®'s Advantage



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

Source: Company websites, Gastrointest Tumors 2020, Pitt Street Research.

Market Entry Strategy





Rhythm's strategy is underpinned by:

- Proven technology;
 - Build global manufacturing capability;
- Secure commercialisation pathway/s; and
- Establish partner networks.



- Confirm Rhythm's key lead biomarker has global application and is highly expressed in a range of cancers.
- Shortlist target cancers to focus on.
- Complements Rhythm's simple, low-cost, mass-market cancer diagnostics strategy.
- Not expected to be capital intensive, existing biomarker tests have already been validated and established.
- Creates opportunity for collaboration and non-dilutive grants.



- Confirmed test-kit manufacture in house (RHY).
- Successful transfer of core technology to global manufacturer, Biotem.
- Third party manufactured test-kits successfully produced and tested in Study 6 with exceptional results.
- GMP standard test-kits manufacturing commenced for use in Rhythm's clinical trial.
- Building ongoing capability to support revenue ambitions.



- United States / Australia / Europe.
- China / Japan / Asia / ROW.
- Incorporated a 100% owned USA domiciled entity.
- Increase business development activity and appropriate partner selection.
- Target approved Clinical Laboratory Improvement Amendments (CLIA) laboratory via a lab developed test (LDT), appropriate for ColoSTAT[®].



- Regulatory entry for Europe (CE Mark) and Australia (TGA).
- Confirmed approach to submit application for CE Mark in advance of Study 7 completion and TGA (Australia) regulatory filing.
- CE Mark submission and approval expected in late 2021.
- Commenced engagement with TGA regarding regulatory filing in Australia.
- Commenced initial stages of US market entry, including the FDA approval pathway.

IP – Patents Filed In All Major Target Markets



Licensed from CSIRO.

- > Worldwide exclusive licence.
- Patent wholly owned by Rhythm Biosciences Ltd*.
- > Expires 2031.
- Methods for detecting colorectal cancer covering the combinations of 10 biomarkers.
- Additional patents applications and patent extensions expected to be submitted in 2021.

Grar	Pending	
United States	France	India
Australia	Germany	
China (x2)	Italy	
Japan	Luxembourg	
United Kingdom	Netherlands	
Europe	Norway	
Austria	Spain	
Belgium	Sweden	
Denmark	Switzerland & Liechtenstein	
Finland	Brazil	





- Disruptive and transformative technology.
- ✓ Significantly cheaper and easier to administer.
- ✓ Globally addressable market.
- Performance better than market standard.
- ✓ Patents secured.
- ✓ Manufacturing secured.
- ✓ Initial revenues targeted for late 2022.
- Commenced platform technology pipeline for additional cancer detection tests.



- ✓ CE Mark submission and approval expected in late 2021[#].
- Progression of TGA (Australia) regulatory application post clinical trial (Study 7) recruitment[#].
- Development of platform technology opportunities for other cancers.
- ✓ Advance USA / European / China / Asia / ROW market entry strategies.
- ✓ Identify key sales, distribution & diagnostic companies for partnering / Explore commercialisation pathways for ColoSTAT[®] in various jurisdictions.



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

www.rhythmbio.com