

Microba Diagnostics Business Update to Bioshares Summit

Microba Life Sciences Limited (ASX: MAP) (“Microba” or the “Company”) is pleased to announce that Chief Executive Officer, Dr Luke Reid will present at the 18th Bioshares Biotech Summit in Perth, Australia at 6.55pm AEST/ 4.55 AWST (Perth time) tomorrow.

Founded on world-leading metagenomic microbiome analysis technology, Microba has been executing on a clear vision for routine use of clinical diagnostic microbiome testing, and novel effective therapeutics developed using this technology. In this presentation, **CEO Luke Reid** will present on the recent launch of Microba’s diagnostic products and next step in its journey as a medical diagnostics company at the forefront of the clinical application of microbiome testing.

The subject of the Bioshares presentation is ‘Unlocking the diagnostic application of microbiome testing’.

A copy of the Bioshares Biotech Summit presentation is attached below.

This announcement has been authorised for release by the Board of Directors

For further information, please contact:

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Chief Executive Officer

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<https://ir.microba.com/welcome>

About Microba Life Sciences Limited

Microba Life Sciences is a precision microbiome company driven to improve human health. With world-leading technology for measuring the human gut microbiome, Microba is driving the discovery and development of novel therapeutics for major chronic diseases and delivering gut microbiome testing services globally to researchers, clinicians, and consumers. Through partnerships with leading organisations, Microba is powering the discovery of new relationships between the microbiome, health and disease for the development of new health solutions. For more information visit www.microba.com

View this announcement on our Investor Hub: <https://ir.microba.com/link/VyEBbe>



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ir.microba.com/welcome interact with Microba’s announcements and updates by asking questions and comments which our team can respond to where possible.

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Unlocking the diagnostic application of microbiome testing

Bioshares Biotech Summit 2024

ASX: MAP
12 July 2024

Authorised for release by the Board of Directors

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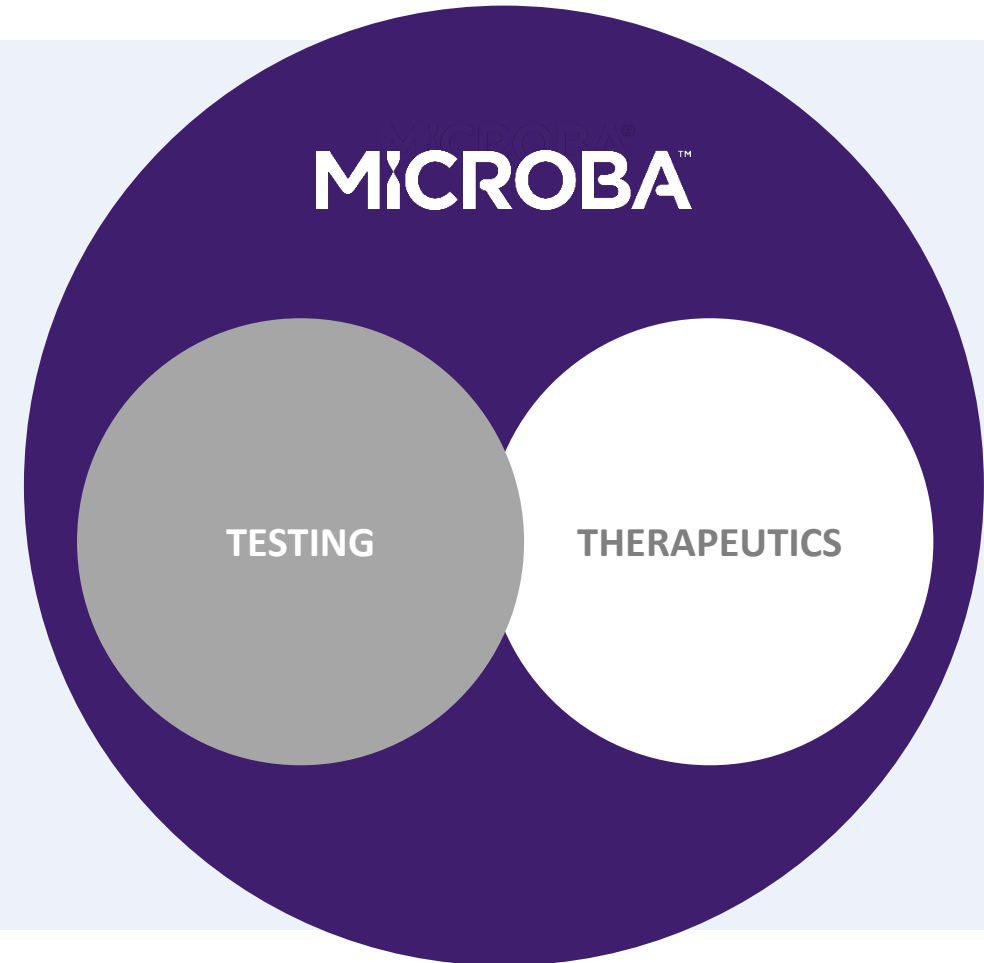
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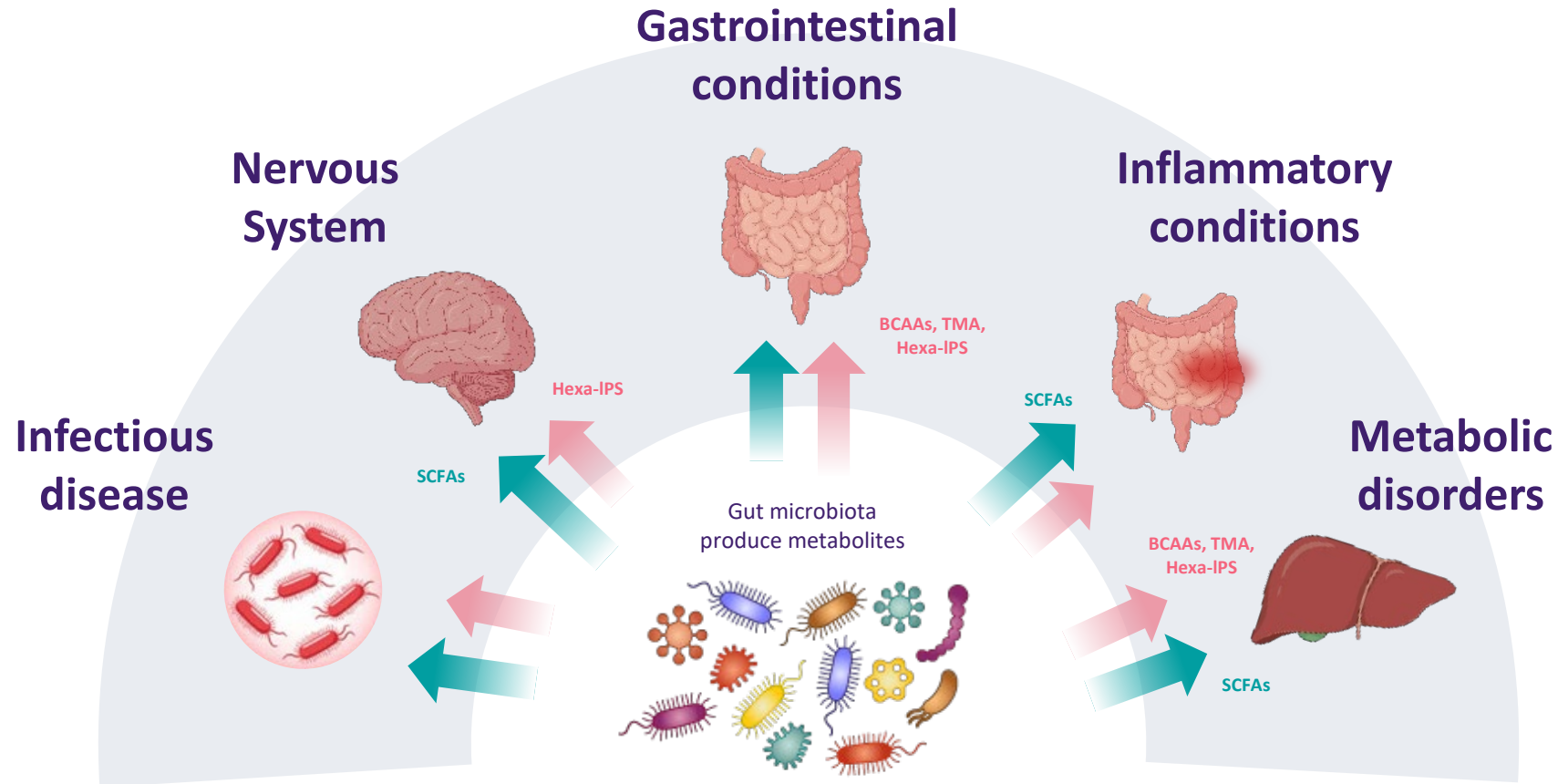
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Microba is a medical diagnostic and clinical stage therapeutics company unlocking the human microbiome

- Microba was founded in late 2017 on world-leading metagenomic microbial genomic and microbiome analysis technology
- A clear vision for routine use of diagnostic metagenomic testing, and novel drugs developed using this technology
- Foundations and initial revenue built through non-diagnostic testing services with over 50,000 tests sold to date
- Microba's Testing business invested to develop 2 diagnostic testing products:
 - MetaXplore™** Gastrointestinal disorder test – Launched Feb 2023
 - MetaPanel™** Gastrointestinal pathogen test – Launched March 2024
- Microba's Therapeutics business invested in 3 programs:
 - 🦠 Inflammatory Bowel Disease – Phase I complete
 - 🦠 Immuno-Oncology – Preclinical lead candidate selection
 - 🦠 Autoimmune Disease – Discovery



Unequivocal evidence demonstrates the **human gut microbiome acts systemically** and is a critical component of disease



>150

Clinical studies demonstrating that **microbiome modulation can influence disease outcomes and symptoms²**

² PubMed search terms "gut microbiome" and "modulate" and "clinical study" and selecting for clinical trials and randomized controlled clinical trials. Only studies with positive results indicated in the abstracts were selected.

Our Diagnostics Vision

To combat disease through microbiome health

Since 2023, Microba has executed the next step of its journey into a medical diagnostic company at the forefront of the medical application of microbiome testing.

Our Diagnostics Focus

Patients suffering from Gastrointestinal Disease



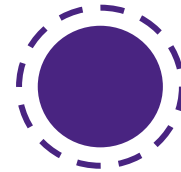
Oncology



Mental



Cardiovascular



Gastrointestinal



Longevity



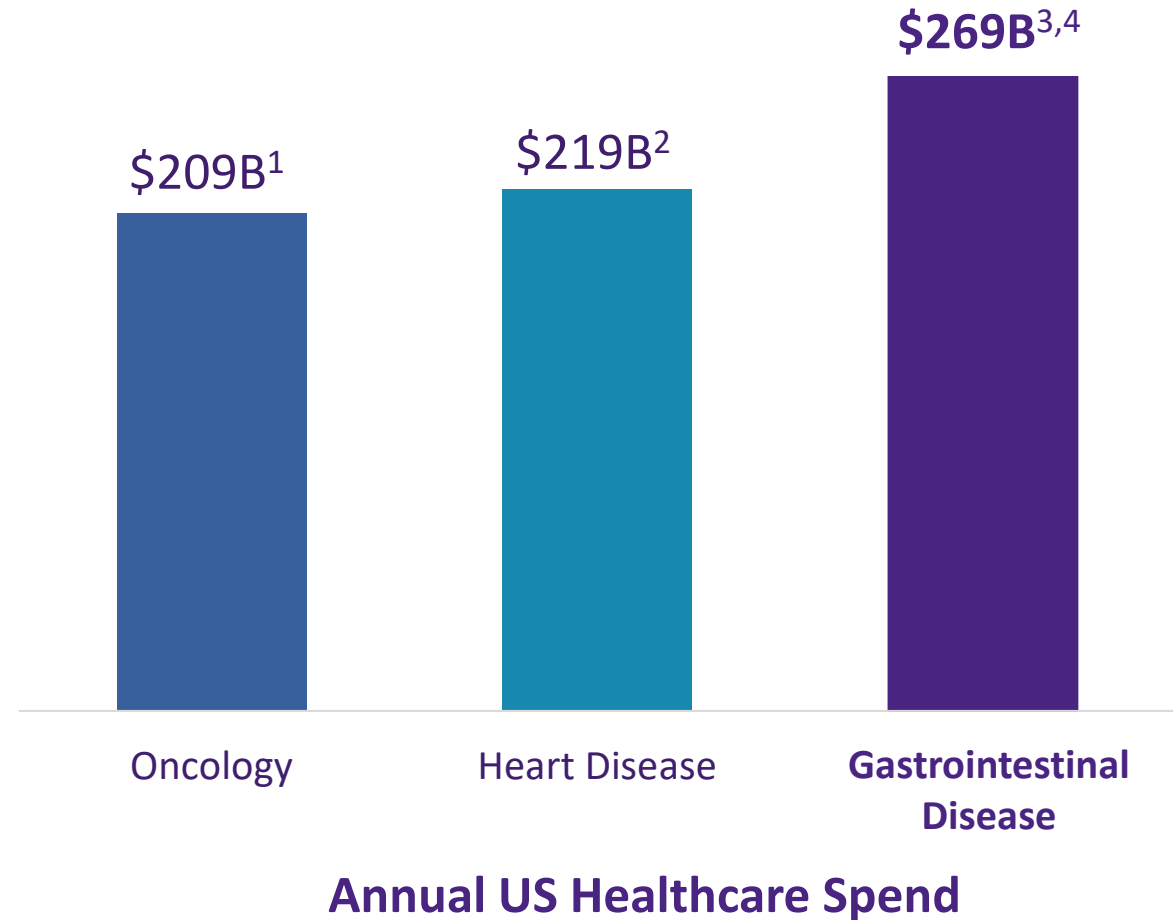
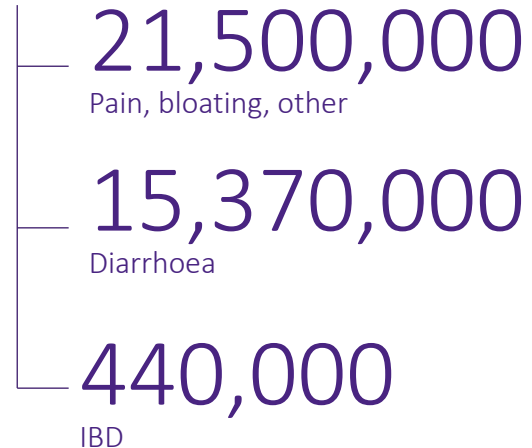
Fertility

Lower Gastrointestinal Disease

a leading cause of healthcare spend

37,310,000

Patients presenting annually in the US
with lower GI abdominal symptoms*



¹National Cancer Institute website: https://progressreport.cancer.gov/after/economic_burden; ²CDC website: <https://www.cdc.gov/policy/polaris/healthtopics/heartdisease/index.html>

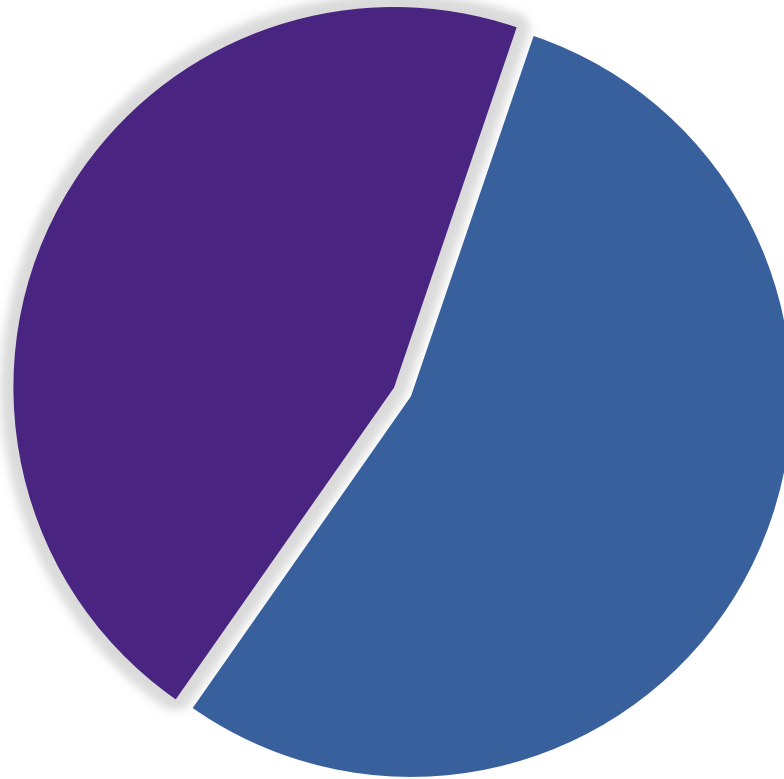
³Nyrop et al. 2007. *Alimentary Pharmacology & Therapeutics*. DOI: 10.1111/j.1365-2036.2007.03370.x. ⁴Park et al 2019. *Inflammatory Bowel Diseases*. DOI:10.1093/ibd/izz104.

*Assessment of Medicare claims analysis by Veranex including estimated Private and Medicaid numbers extrapolated from the Medicare claims analysis. Combined with IBS diagnosed individual data from Almarino et al 2023. *Gastroenterology*. DOI:10.1053/j.gastro.2023.08.010 and IBD individual data from Lewis et al 2023. *Gastroenterology*. DOI:10.1053/j.gastro.2023.07.003 and Weisman et al 2023. *Prev. Med. Rep.* DOI: 10.1016/j.pmedr.2023.102173.

Half of patients are not getting a resolution from current standard of care

47%

→ Unresolved

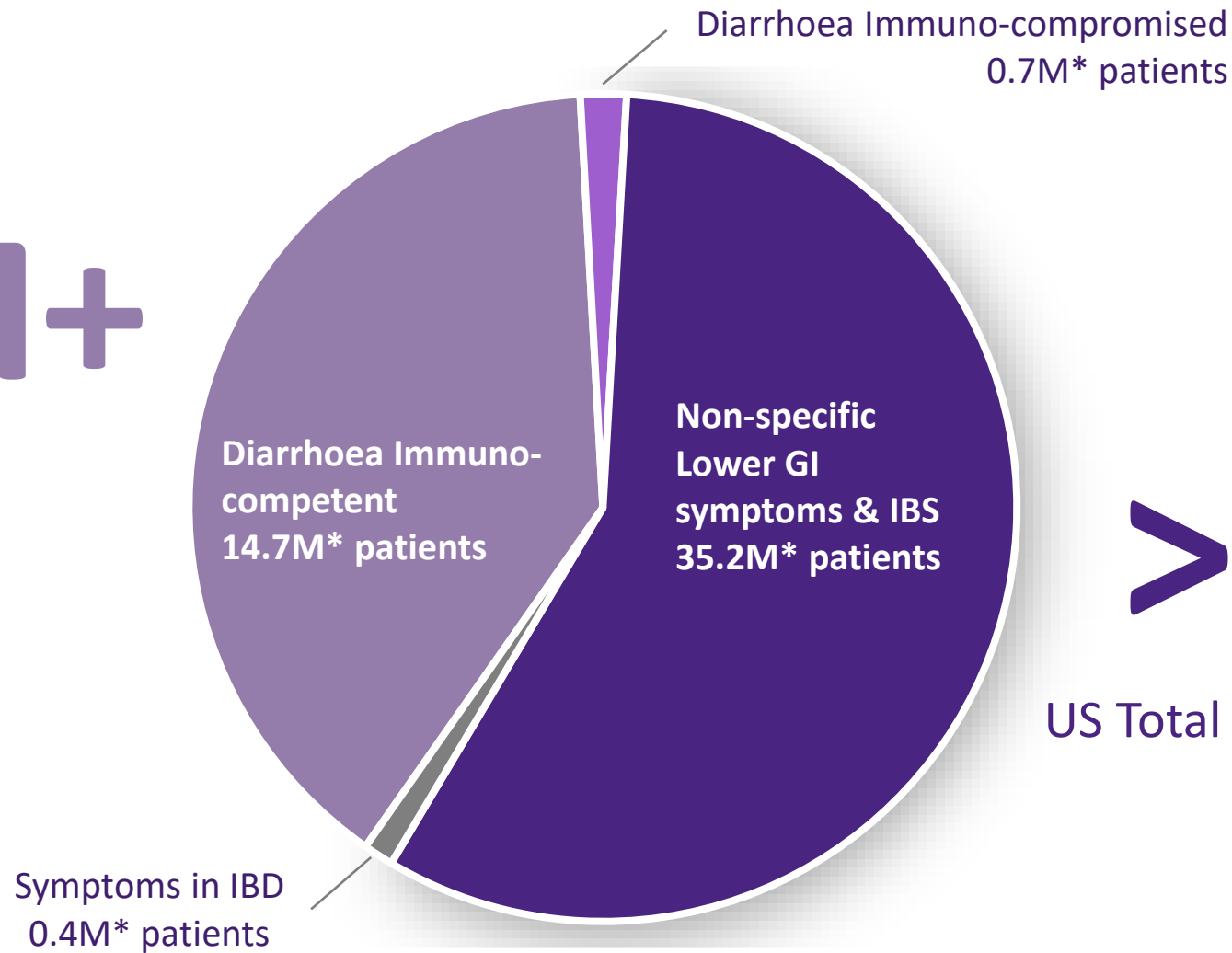


53% Resolved

A multi-billion dollar market opportunity

35M+

US patients*



>\$15B

US Total Addressable Market**

Ongoing market analysis with  Veranex

* Assessment of Medicare claims analysis. Estimated Private and Medicaid numbers extrapolated from Medicare claims analysis.

** Assumes minimum revenue per test of US \$416.78 aligned to CPT code 57507. This is viewed to be the minimum with the top pricing predicate at US \$2126.20

Addressing the GI symptom challenge

Microba's comprehensive diagnostic products

First line

Diagnosing
pathogenic causes
of GI symptoms

MetaPanel™



Gastrointestinal pathogen test

Launched March 2024

- ✓ Stool DNA test.
- ✓ 175 targets.
- ✓ Expertly curated clinical recommendations for targeted treatment.

Developed with
 SONIC
HEALTHCARE

Second line

Identifying functional
causes and treatment
options for
non-pathogenic
GI symptoms

MetaXplore™



Gastrointestinal disorder test

Launched February 2023

- ✓ Stool DNA + targeted biomarker test.
- ✓ 7 functional GI markers. >28k microbiome markers.
- ✓ Expertly curated clinical recommendations for personalised treatment.

Getting answers for patients in need

Closing the gap on GI symptom diagnosis and treatment

Out of 100 patients presenting with lower GI symptoms



MetaXplore™

24%^{}** more diagnoses with
MetaPanel™

19%^{*} diagnosed with
Standard of Care (PCR +MCS+OCP)

* Large pathology company data from 70,000 tests with 19% positive pathogen detection rate

** Study of first 4 months of MetaPanel test results in clinical practice in Australia

Strong diagnostic performance

Highly specific test that enables confident diagnosis

Measure	Diagnostic Performance vs standard of care
Coverage Number of pathogen or gene targets on the test	175 vs <25 MetaPanel Standard of care*
Sensitivity Ability of a test to identify the presence of a target correctly; $(= TP / (TP + FN))$	0.94 +/- 0.07
Specificity Ability of a test to identify the absence of a target correctly; $(= TN / (TN + FP))$	0.99 +/- 0.01
Positive Predictive Power (PPV) Probability that an individual with a positive test result has the target $(= TP / (TP + FP))$	0.99 +/- 0.01
Negative Predictive Power (NPV) Probability that an individual with a negative test result does not have the target $(= TN / (TN + FN))$	0.99 +/- 0.01

MetaPanel™

Data from 517 blinded samples. Confidence measures represent median values with 95% confidence interval across pathogen species compared to one or more validated assays.

*Including multiplex PCR & MCS testing

Transforming standard of care

A paradigm shift

*“After the first 4 months using the MetaPanel test, **24% of patients have been diagnosed** with a pathogen that would have been undiagnosed or experienced delayed time to diagnosis and resolution.*

This is a breakthrough in infectious disease management”

MetaPanel™



Dr Michael Wehrhahn

BSc (Med) MBBS (Hons) MPH (Hons) FRACP FRCPA
Clinical Microbiologist,
Infectious Disease Physician & Director
of Molecular Biology



DOUGLASS
HANLY MOIR
PATHOLOGY



SONIC
HEALTHCARE

Advancing GI pathogen diagnosis in Australia

- Sales building **across all states** through the Sonic network
- **7 clinician launch events** held spanning all major states and territories
- Multiple **clinical utility studies** initiated
- Initial **publications** in process
- Active **KOL** development



Changing lives every day

*“Before completing the MetaXplore test with my practitioner, my health was in constant distress. I looked and felt bloated all the time, to the point of appearing six months pregnant. My severe constipation led to bowel movements only every 5-6 days with trapped gas causing extreme pain. After completing the MetaXplore test and implementing my treatment plan, I have experienced remarkable improvements. My bowel movements are now regular, averaging every 2-3 days. **The trapped gas and extreme pain are gone, significantly improving my daily life. With adherence to the treatment plan, I no longer suffer from bloating, pain, reflux, or indigestion**”*

**MetaXplore
patient**

MetaXplore™

Changing lives every day

*“I have struggled with gastrointestinal symptoms for over half my life. I have tried resolving with many specialists, restrictive eating plans and natural therapies. My MetaXplore test this year identified clear problems and a personalised treatment plan. I am grateful that through following the treatment plan **I have achieved complete resolution to my symptoms and can enjoy eating unrestricted for the first time in 35 years.**”*

**MetaXplore
patient**

MetaXplore™

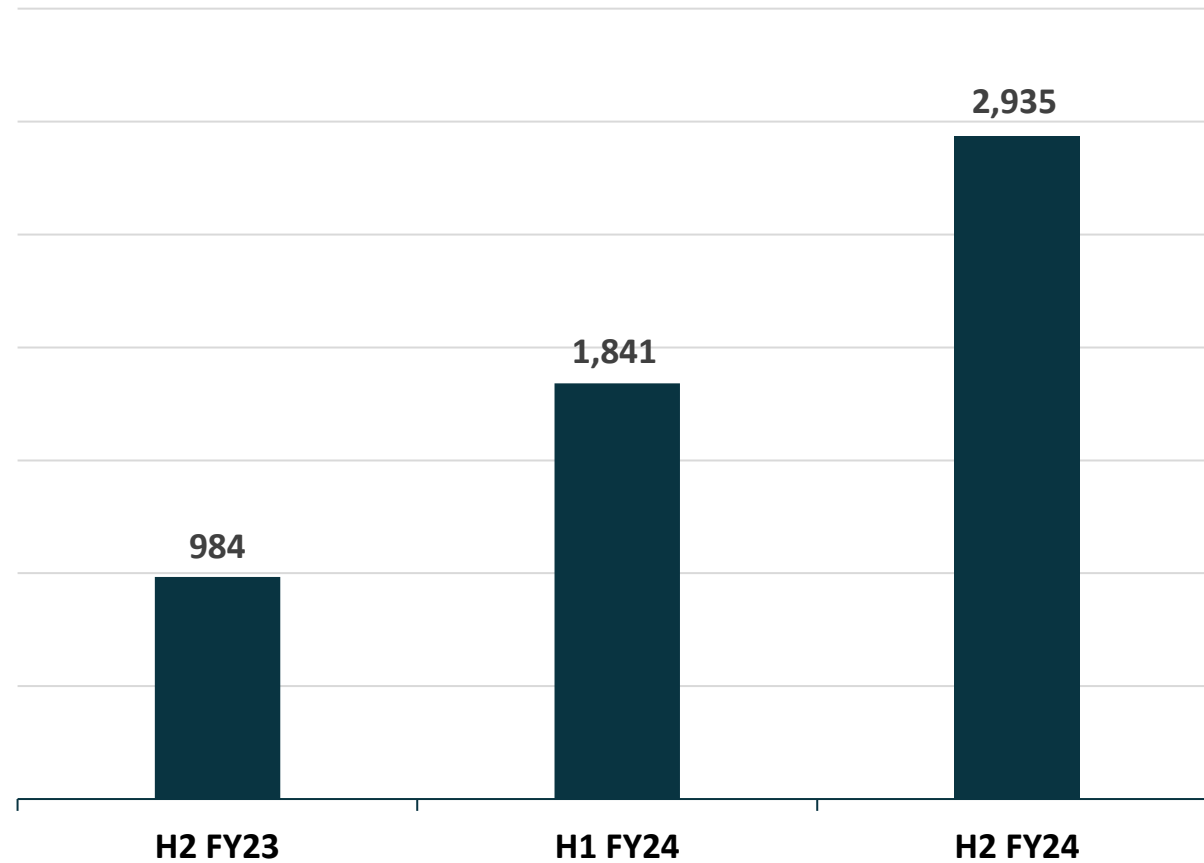
Growing sales in Australia post launch

>5,800

Tests sold since March 2023

60%

Growth HoH



MetaXplore test sales volume

MetaXplore™

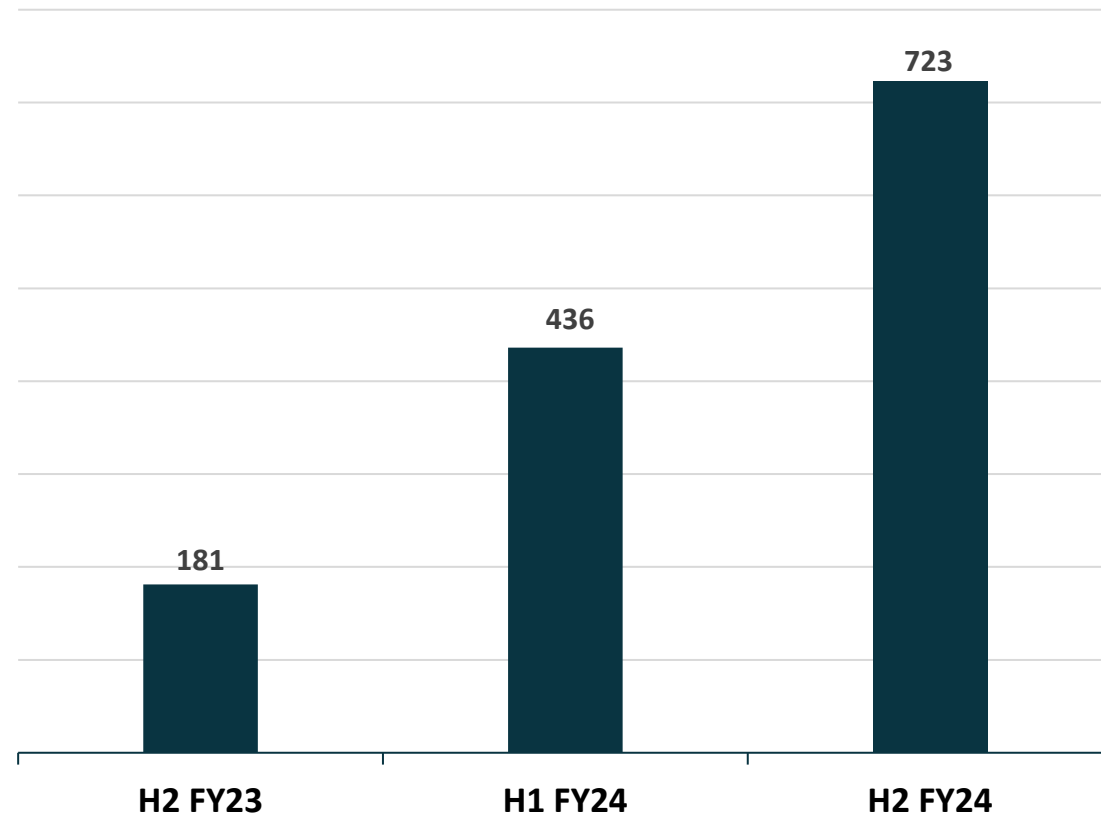
Growing clinical adoption in Australia post launch

>700

Clinicians have ordered at 30 June 2024

65%

Growth HoH



MetaXplore ordering clinicians

MetaXplore™

Serving patients today and driving to establish a new reimbursed standard of care

Out of pocket pay access

Driving access today where standard of care has failed.

Full out of pocket pay.

Regulatory



Evidence

Clinical performance validation.

Case studies.

Registry driving RWE.

RCTs vs standard of care demonstrating clinical utility.

Reimbursement & coverage



UNITEDHEALTH GROUP®



Guidelines



Appendix

New Microba care pathway

Patient presents with GI symptoms.

Is it a pathogen causing these symptoms?

MetaPanel™
Broadest pathogen test available
175 targets

If positive: Targeted antibiotic treatment

If negative: Is there risk of IBD or CRC?

MetaXplore™
Comprehensive gastrointestinal disorder test

If positive: Colonoscopy for formal IBD or CRC diagnosis and treatment and/or Functional microbiome or GI disorder diagnosis with personalised treatment plan

If negative: Expect psychogenic IBS. Referred for mental health support

Current standard of care

Is it a pathogen causing these symptoms?

10-22 pathogen PCR test

If positive: Broad spectrum antibiotic treatment

If negative: Is there risk of IBD or CRC?

IBD risk test faecal calprotectin ELISA

If positive: Colonoscopy for formal IBD or CRC diagnosis and treatment

If negative: CRC risk test FIT or FOBT

If positive: Colonoscopy for formal IBD or CRC diagnosis and treatment

If negative: IBS Diagnosis by exclusion

Non-specific diet and mental health support

IBD = Inflammatory Bowel Disease, CRC = Colorectal Cancer, IBS = Irritable Bowel Syndrome

IBD = Inflammatory Bowel Disease, CRC = Colorectal Cancer, IBS = Irritable Bowel Syndrome

Two core business segments driven by a world leading technology

Testing Business

Next generation gastrointestinal diagnostics

2 clinical tests.

GASTROINTESTINAL PATHOGEN TEST

MetaPanel™

GASTROINTESTINAL DISORDERS TEST

MetaXplore™

2 channels to market.

PATHOLOGY PARTNER CHANNEL



PRIMARY TARGET CLINICIANS

Gastroenterologists
General Practitioners
Other Specialists

DIRECT TO PRACTITIONER CHANNEL



PRIMARY TARGET CLINICIANS

Integrative General Practitioners
Integrative Specialists
Dieticians
Nutritionists
Naturopathic practitioners

MiCROBA®

World leading microbiome
analysis technology

Proprietary databank

Advanced AI and biostatistics
powering a diagnostics and
therapeutics platform

Therapeutics Business

Precision microbiome therapeutics

Data driven therapeutic development platform.

ADVANCED AI/ML APPROACH
UNDERPINNED BY WORLD LEADING
TECHNOLOGY

NOVEL PIPELINE OF MICROBIOME
THERAPIES – POTENT, ORAL DELIVERY,
SAFE & MANUFACTURABLE

3 therapeutic programs.

**INFLAMMATORY BOWEL
DISEASE PROGRAM**

CLINICAL INDICATION
Mild-moderate Ulcerative
Colitis

DEVELOPMENT STAGE
Phase 1 Complete
Phase 2 Readiness



**IMMUNO-ONCOLOGY
PROGRAM**

CLINICAL INDICATION
Multiple cancers to enhance
check-point inhibitor treatment
response

DEVELOPMENT STAGE
Pre-clinical. Lead
candidate selection



**AUTOIMMUNE DISEASE
PROGRAM**

CLINICAL INDICATION
Lupus, psoriatic arthritis &
autoimmune liver disease

DEVELOPMENT STAGE
Discovery





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