



INVESTOR PRESENTATION

November 2015

Company Summary



- Medibio has developed the first evidence based quantitative test for depression and mental health disorders, addressing the largest issue in healthcare today.
- Defensible IP/technology which has been developed based on 15 years of research into the relationship between the autonomic nervous system and depression, anxiety and stress
- Accelerating progress with US and Australian trials, FDA submission 2016, existing precedent for approval and reimbursement codes paves way for clinical and corporate acceptance
- Research being conducted by - Johns Hopkins, UNSW, IMHR
- Multiple commercialisation routes - Medical, Corporate and Consumer market. Each vertical represents significant market opportunity and revenue streams
- Revenue generation to commence now, Corporate and Consumer market products not dependent on regulatory approval

“It is critical to realise that we cannot succeed if we use DSM categories as the gold standard - We need a quantitative method for diagnosing depression

(U.S. National Institute of Mental Health - May 2013)



Corporate Snapshot

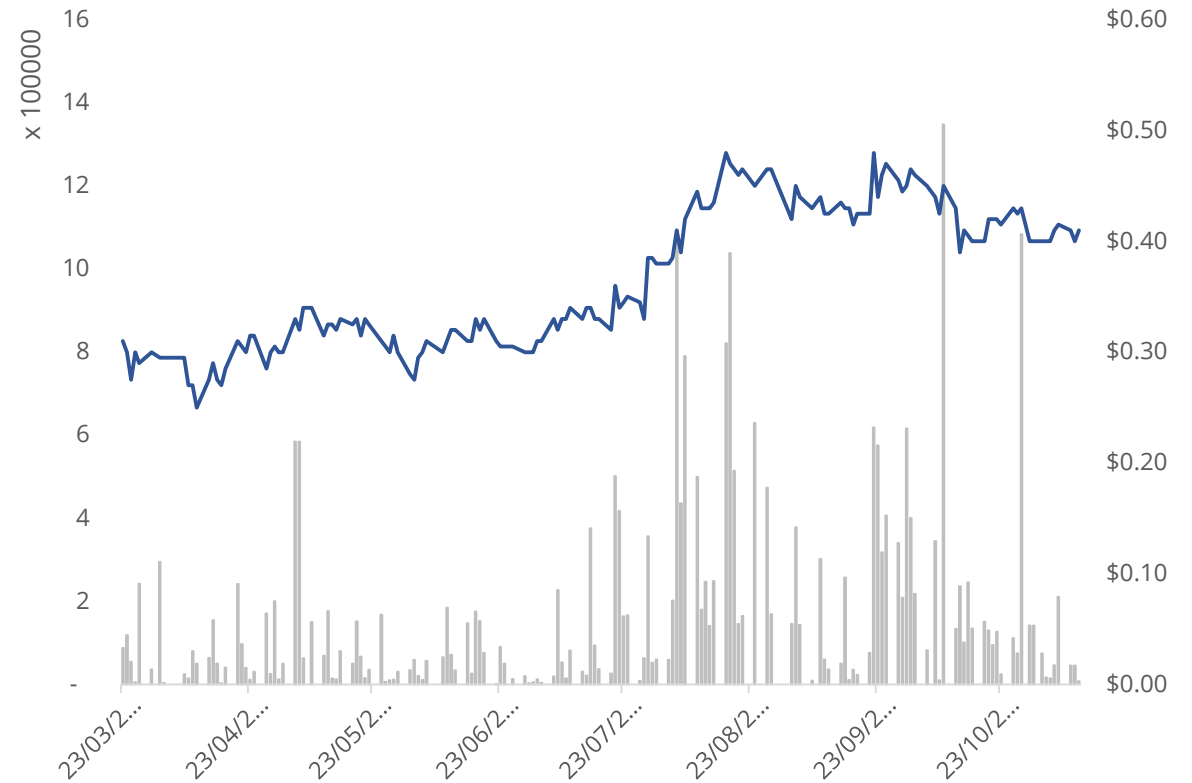


Trading Information

ASX Ticker	MEB
Shares on Issue	99.1m
Share Price	\$0.40
52-Week High	\$0.50
52-Week Low	\$0.20
Market Capitalisation	\$39.6m

Top 20	63,330,745	70.3%
Board and Management	38,671,470	42.9% (incl 25.5m escrowed)
Vendor Milestone 1	6,000,000	Independent Validation
Vendor Milestone 2	6,000,000	Commercial Algorithm Development
Vendor Milestone 3	6,000,000	FDA/CE Mark
Unlisted Options	21,530,009	\$0.30 (6.67M) & \$0.10 (14.86m)

Share Price Since Listing



Key Executives



Kris Knauer
Chief Executive Officer

- 20 years experience in Finance and Corporate Advisory
- Experienced CEO of ASX Listed companies
- Previous role as CEO in a group owning GP Centers and Radiology practices
- Founded and grew ASX Listed company from sub \$3 million valuation to \$300 million valuation prior to a \$1bn takeover



Sean Mathieson
Chief Operating Officer

- Business Technology Executive with 25 years of Global Business Software experience
- Reputation for Technology Vision enabling Business Outcomes
- Global Leadership Team of Siebel Systems, Founding Member of SAP Australia



Dr Matt Mesnik,
Chief Medical Officer

- Healthcare Executive with 25 years of healthcare management experience
- Chief Medical Officer of Aprima Medical Software, US EMR company
- Chief Medical Officer of MinuteClinic, developed the concept of retail healthcare, the largest U.S. retail health clinic provider (>1,000 clinics with >8M annual primary care visits). Acquired by CVS Pharmacy with >7,500 stores.



Dr Michael Player
Head of Research

- Research Psychologist at UNSW and active patient work as a Clinical Psychologist.
- Completed his PhD at the University of NSW, investigating and quantifying objective, biological markers of depression.
- Research importantly found that neuroplasticity was reduced in depression, as demonstrated by an objective test not confounded by subject effort and motivation. This provided ground-breaking support for the hypothesis of impaired neuroplasticity in MDD.



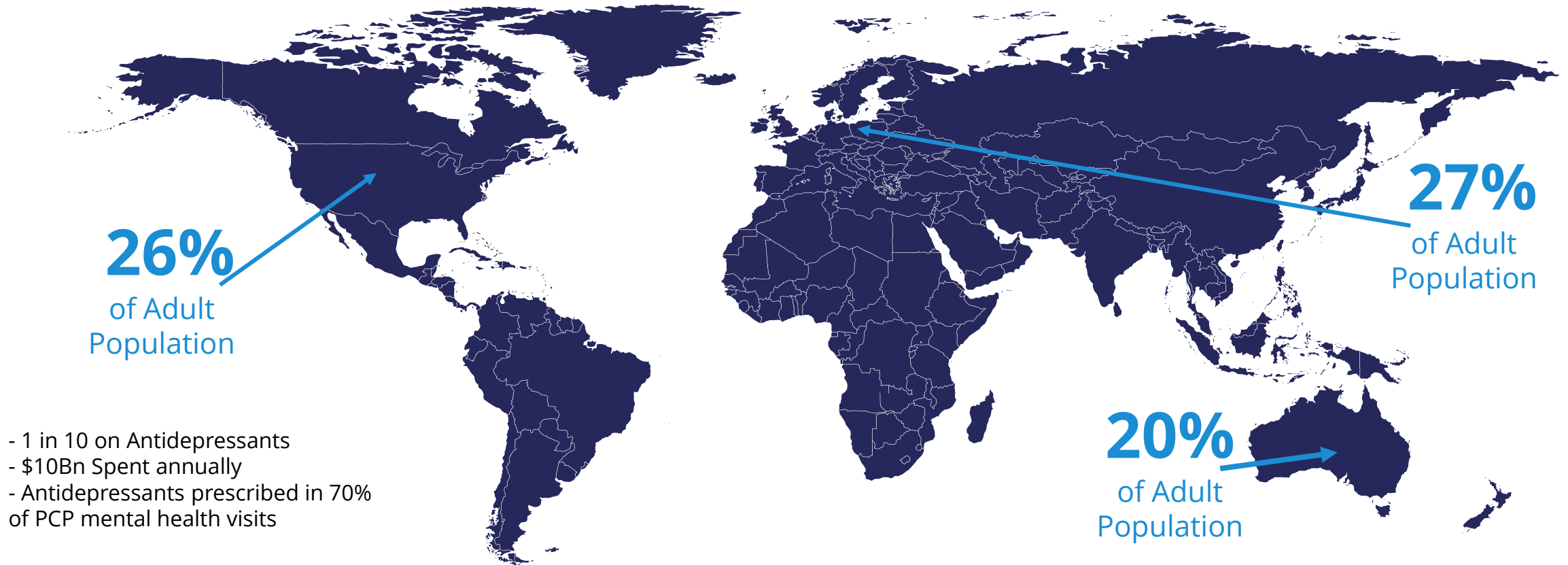
Dr Franklyn Prendergast
Advisory Board Member

- Current Director of Eli Lilly and Company and Past Chair of the Board of Governors of the Mayo Foundation
- Past Chair, Department of Biochemistry and Molecular Biology, Mayo Foundation
- Guggenheim Professor of Biochemistry and Molecular Biology, Mayo Medical School (retired-January 2015)
- Past Director, Mayo Clinic Center for Individualized Medicine and Mayo Clinic Comprehensive Cancer Center

Mental Health Landscape

350 Million Worldwide Diagnosed With Depression
1 Suicide Every 40 Seconds

1 Million Suicides Every Year



Global Cost \$2.5T (2030 est. \$6T) — Depression and Anxiety account for **+50%** of this burden

Most Challenging Problem in Healthcare Today



The Problem

- No objective test for mental illness
- The diagnostic “gold standard” is a clinical/expert opinion
- Diagnostic agreement between clinicians can vary considerably – concordance rates near 70%
- Current assessments are subjective and some require professional administration)
- Misdiagnosis of depression (and other mental illness) places a huge cost burden on the healthcare system and the workplace

The Solution (Medibio)

- Quantitative, objective test
- Diagnosis based on patient’s biometric data (circadian heart rate)
- Simple, safe, quick, and unobtrusive
- Provides objective indication of treatment efficacy along with medication compliance and adherence
- Savings to the health system and better patient outcomes

First Quantitative Diagnostic Test for Mental Health

Medibio's research has allowed it to develop the first evidence based quantitative diagnostic test of all the key mental health disorders including:

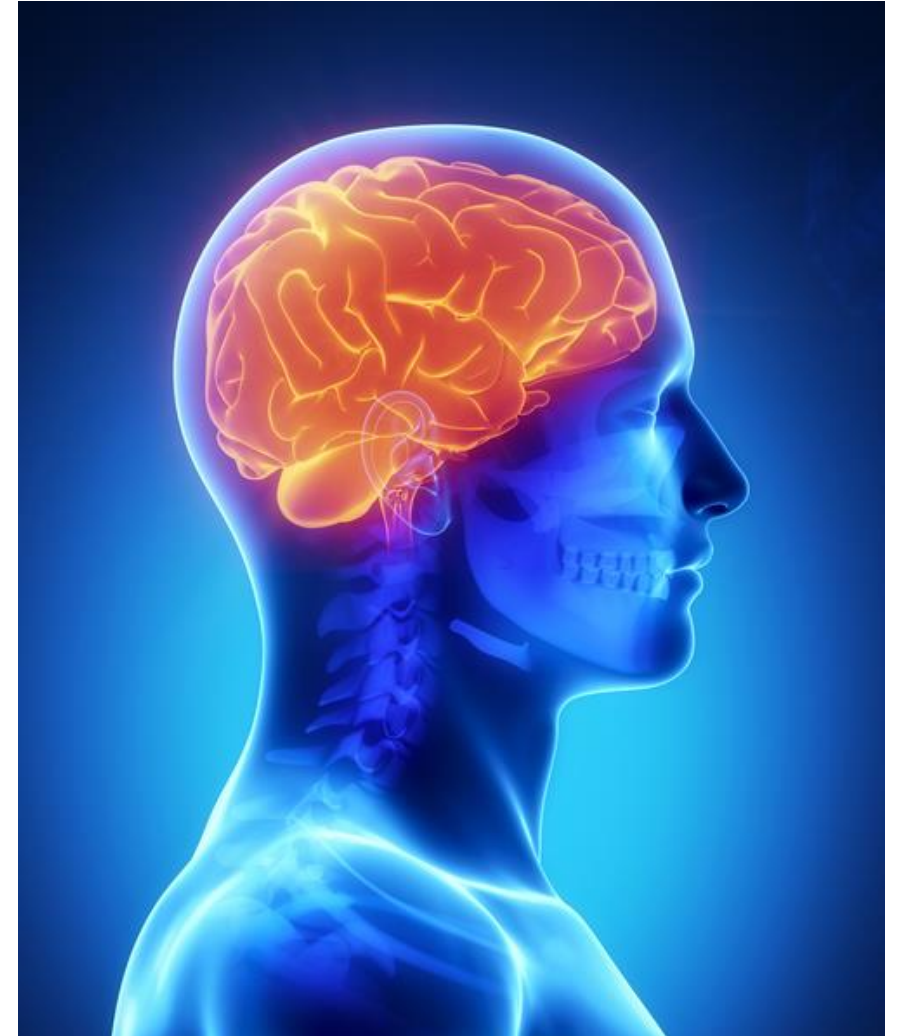
- Depression
- Anxiety
- Mixed Depression and Anxiety
- Panic Disorder
- Psychosis and Schizophrenia
- PTSD – Post Traumatic Stress Disorder
- Stress

Proprietary technology in which algorithms assist in the diagnosis of a number of mental health conditions utilizing the analysis of Circadian Heart Rate ("CHR") variability waveforms

Sleep is **the key period**. It is only during sleep when external influences and distractions are absent

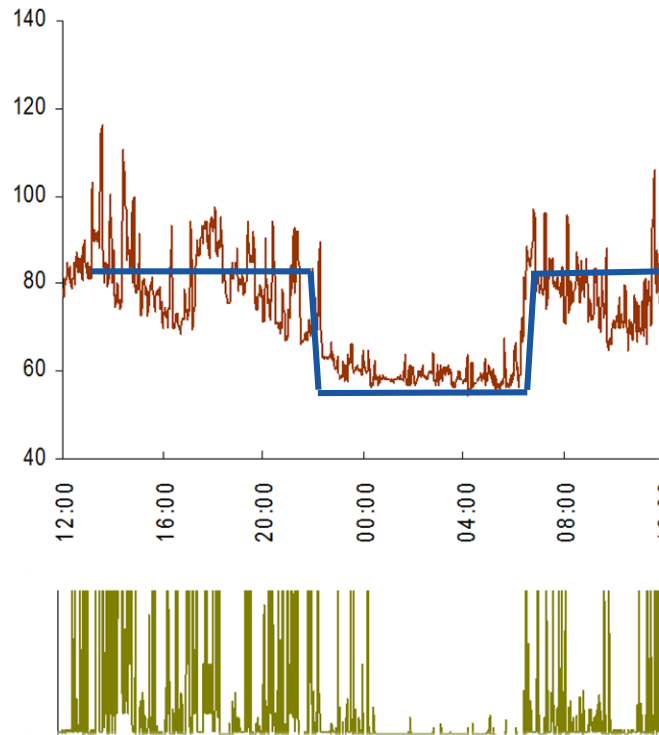
CHR is 'state-dependent' - a change in mental state is associated with a change in CHR waveform

Serial monitoring of patients under psychiatric treatment shows **Treatment efficacy is associated with normalisation of CHR**

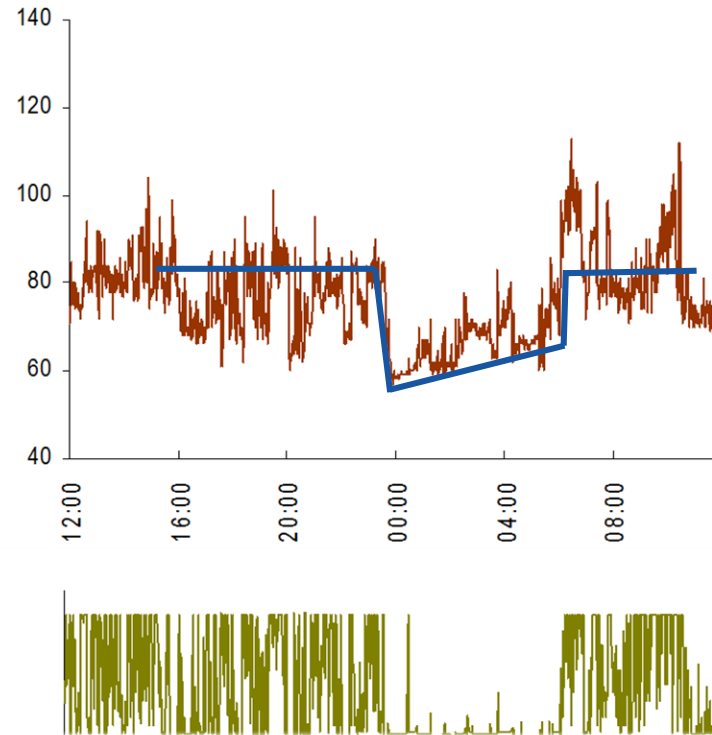


Technology Overview

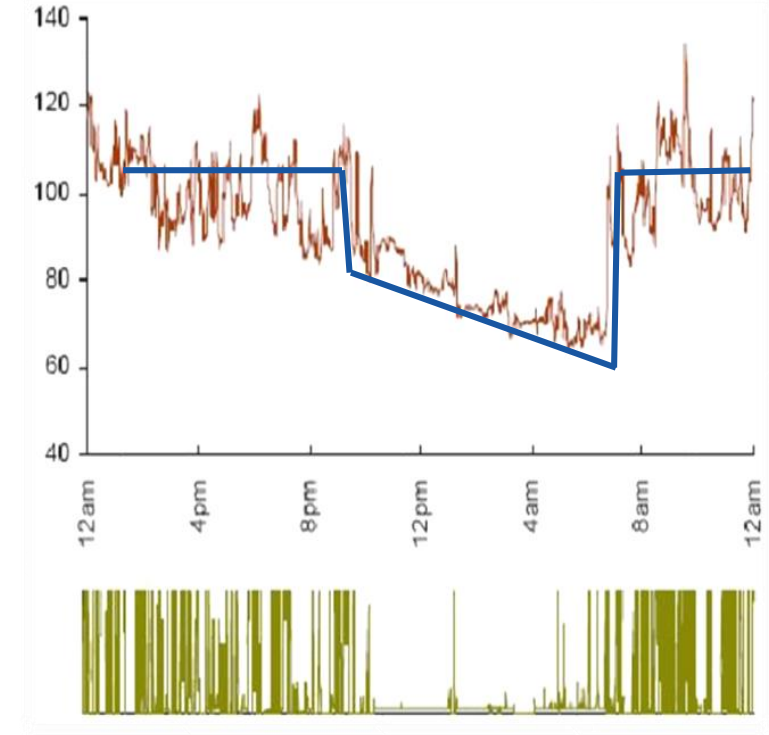
Normal Individual



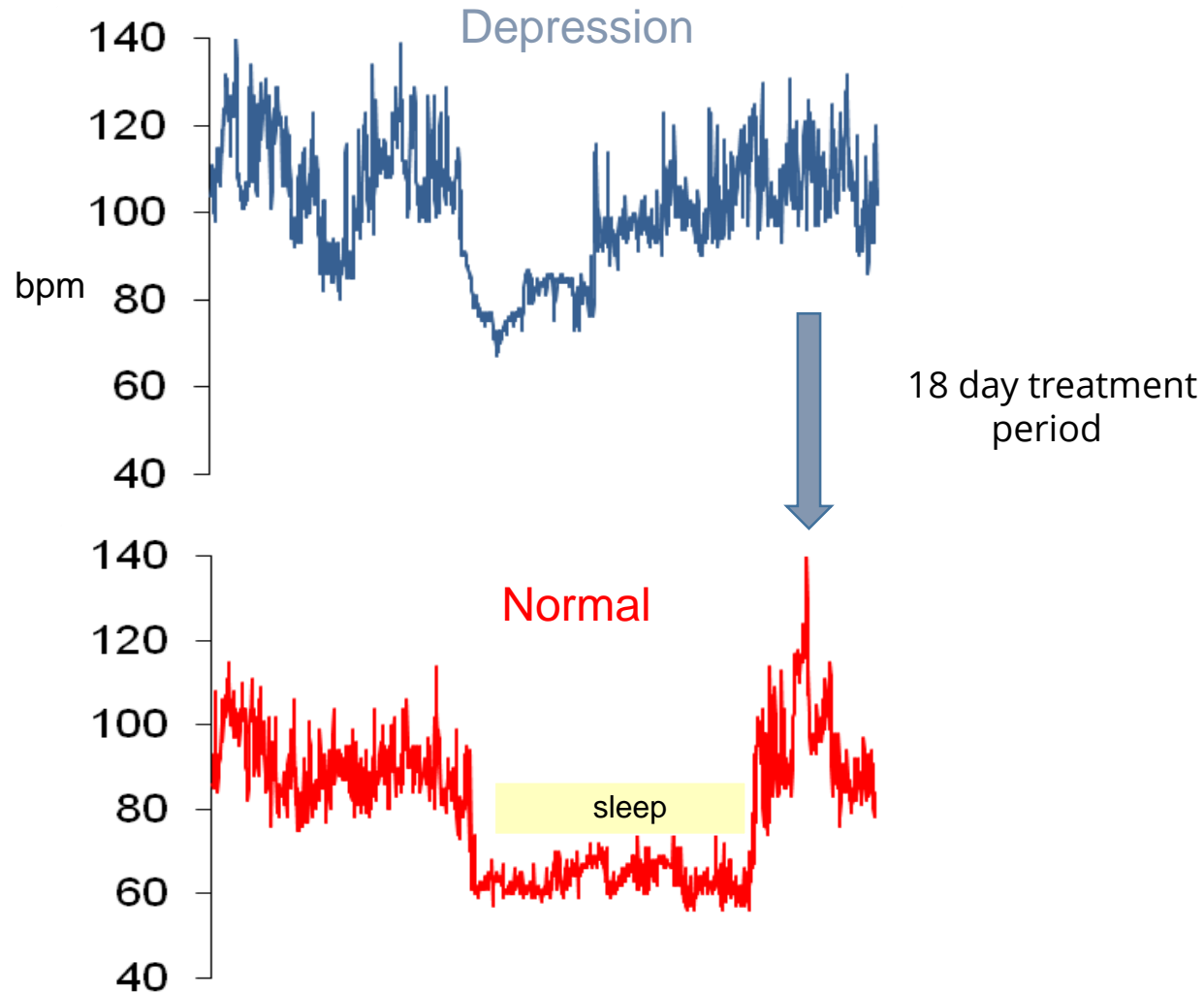
Depressed Individual



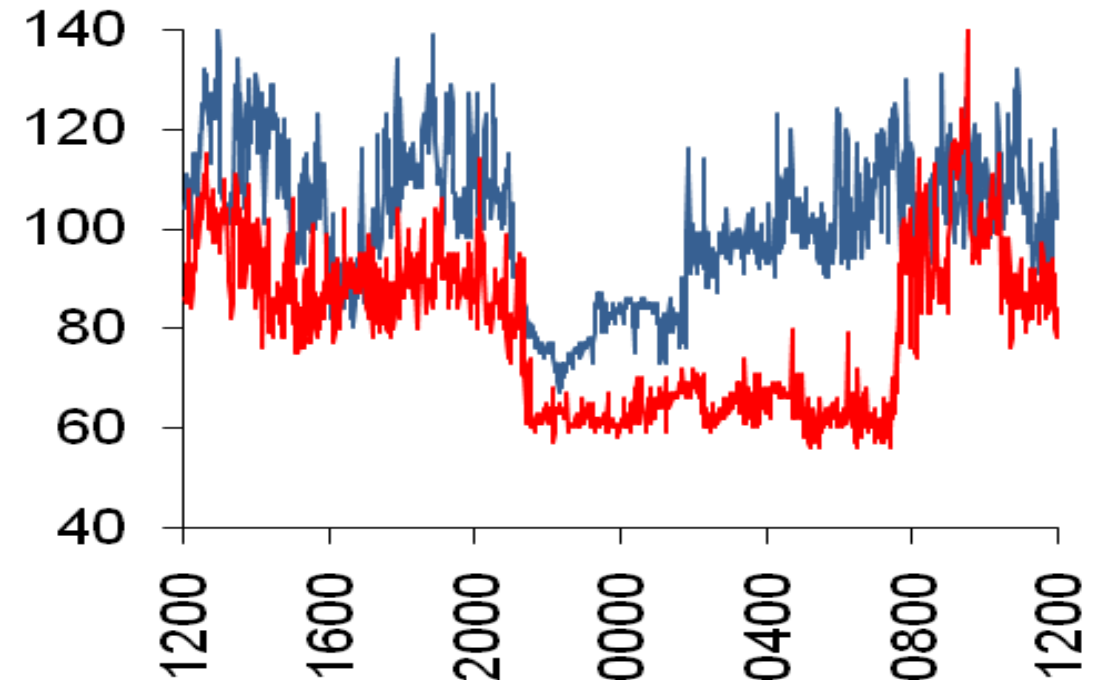
Anxiety Disorder



Normalisation of Depression



- Depressed individual upon initial diagnosis
- Same individual after 18 days following effective intervention
 - Olanzapine – 10mg (night)
 - Mirtazapine – 60mg (night)
- Illustrates the 'state-dependent' nature - a change in clinical status is associated with a change in CHR patterns



Defensible IP Developed over 15 years



Comprehensive suite of patents covering the use of CHR technology for both:

- Medical diagnostics including assessment of treatment efficacy
- Stress assessment



Patent suite for medical diagnostics includes:

- "Method for Diagnosing Psychiatric Disorders"
- USA(US624502), Canada, Australia, New Zealand, Israel
- Method and System for Monitoring Stress Conditions" covering the use of CHR for stress assessment
- Method and System for using CHR to Diagnose Psychiatric Disorders" covering new discoveries in past 18 months



Data set required for algorithm development is the natural protection:

- 10,000 +12 hour ECG files with a corresponding psychiatric diagnosis
- This data set would take 5 years and cost \$20 million to replicate

Three Clearly Defined Markets

Clinical

Medical



US\$30Bn
Industry

Primary Care Physicians
Psychiatrists
Psychologists
Therapists
Counsellors
Cardiologists

Non-Clinical

Corporate



US\$19Bn
Industry

High Risk Occupations
▪ Defence
▪ Police
▪ Fire/Emergency
Insurance Companies
Corporate Wellness
Professions
Elite Sports

Consumer



US\$26Bn
Industry

App Stores
Insurance Companies
Wellness
Digital Health
Companies

How it Works



Clinician orders test



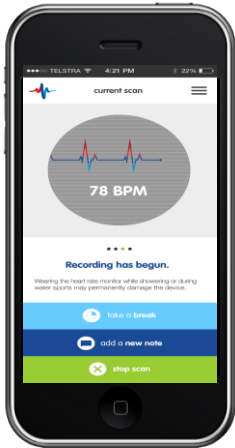
Pathology model whereby the patient is referred to hospital or clinic to be fitted with an ECG Monitor

CHR collected from Patient and transmitted to HIPAA compliant Cloud Storage



Next generation ECG monitors sync to mobile phone which transmits the data to the cloud or have a cellular chip installed sending data direct to the cloud via the cellular network

Pre-Processing can be conducted on the phone via the Medibio App



Process to verify data quality recorded

Noise removal and IBI extraction

Significant reduction in data transmission costs

CHR processed by machine learning algorithms in the Cloud



Completely automated process from data collection to report generation.

No physical data handling

Biometric data stored in HIPAA compliant cloud

Clinician has secure access to Diagnostic Reporting and Analysis – Anywhere/Anytime



Clinician uses report as a diagnostic aid to make the diagnosis

Augmentation by device, instead of driving clinician redundancy for diagnosis

Clinical Market Opportunity

- GP's or PCP's in the US are becoming the primary psychiatric care provider with in excess of **50% of all psychiatric diagnosis** in the US done by PCPs.
- Of the **21 million annual** PCP visits in the US which are mental health related:
 - **40%** receive only psychiatric medication
 - **30%** receive medication and are referred for therapy
 - **30%** are referred to a psychiatrist/psychologist
- The test will be marketed as a **diagnostic aid with the early adopters** to be GP's and Primary Care Physicians in the US
- Partner and Payment structure for 24hour ECG monitoring.

	Medicare	Private	Insurance	Assumption
93225	Recording (Provider)	\$26.87	\$40	
93226	Analysis with Report (Medibio)	\$37.91	\$57	\$45
93227	Physician review and Interpretation (Provider)	\$26.87	\$40	

- PCP Initial diagnostic market – **21 million annual PCP visits @ \$45 ~ \$1 billion annually**
- Ongoing monitoring - **16 million with depression in US quarterly ² @ \$22.50 ~ \$1.6 billion annually**
- **5% penetration of the US market** for depression diagnosis would generate revenue **of \$175 million annually**
- Cloud based analysis and reporting = minimal costs per report = **very high margins**

Corporate Stress Product

Using stress specific algorithms MEB has developed the first objective measure of the impact of **stress on wellbeing**

Based on the type and degree of deviation from normal CHR and the clinical significance of these deviations, individuals are classified into one of three distinct categories.

- **'green'** - normal to mild (no immediate action needed)
- **'amber'** - moderate (the impact of stress on wellbeing is approaching unhealthy levels)
- **'red'** - serious (the impact of stress may have an unhealthy impact on wellbeing (recommend lifestyle changes)

Initial target market is the **Corporate Wellness market** where Medibio provides an end to end solution for corporates

We provide the first objective measure of stress and a series of interventions tailored specifically to the employees stress level



ASSESSMENT

Enable employees to check their stress levels

Personal early warning system for people at risk

Prevention is better than cure



SUPPORT

Provide education, support, and intervention based on stress level

May recommend discussion with PCP

Provide the ability to conduct on-going monitoring to check progress



Employer Benefit

Metrics on stress levels for job classes and types

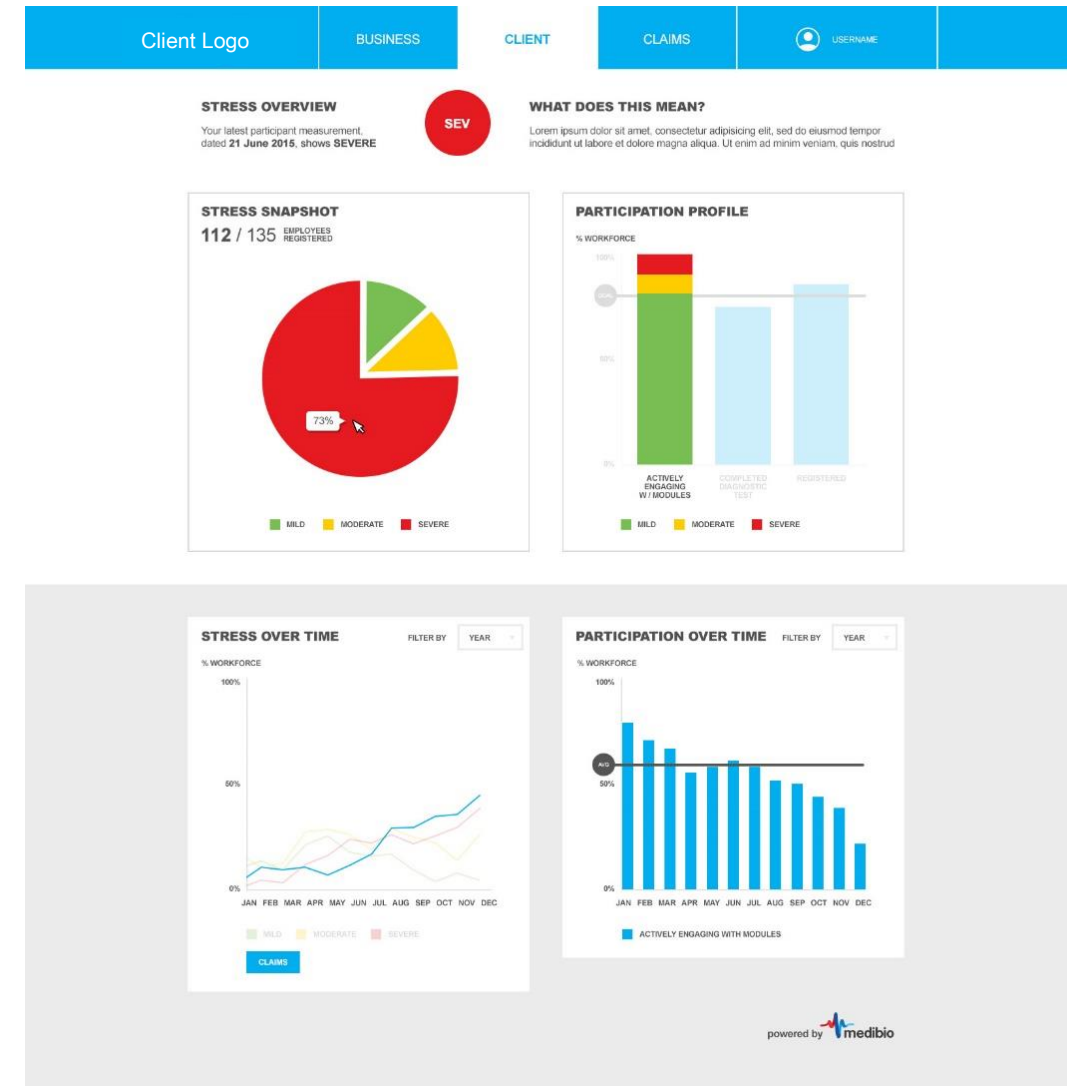
Reduced absenteeism and increased productivity

Reduced claims and pressure on the health care systems

Corporate Stress Market Opportunity



- Price point is important
 - \$120** - executives and at risk employees only
 - <\$60/year/employee** – entire staff base
- Pricing model
 - \$25** for initial stress assessment
 - \$10** for re-test (moderate/serious category)
 - Intervention **\$2/employee/month**
- Revenue of ~ **\$52** per staff member per annum
(Ametus Group Independent Analysis)
- 5% penetration** of the US market would generate **\$200 million annual revenue**
(Assumptions 5% of 76 million employees @ US\$52)
- 5 year revenue target **\$100 million annual revenue**



Consumer App Market Opportunity



- All Apps related to stress/mental health are:
 - based on reducing tension via breathing, yoga, and relaxing sounds
 - wellness products not stress identification and management
 - mental health Apps are based on a digitised version of the DSM
 - **none offer objective stress assessment based on extended research**
- Medibio's App:
 - Based on **15 years of medical research** which is currently being validated by **Johns Hopkins University and others**
 - An objective, health sector endorsed, objective stress assessment application and management tool
 - Ability to compare this test with previous scans run to check progress
 - **Best in class** intervention tailored to your stress level
- Business Model:
 - Initial **\$5 download** gives you a month of complete usage including the stress management interventions
 - **\$10 to subscribe for a 12 month period** and have ability to retest and track your progress against yourself
 - A "Stress Doctor" penetration would generate **\$600 million** in revenue and our offering is superior



Investment Highlights



- One of the few areas in Health Care yet to be disrupted by technology
- Multiple commercialisation routes with each vertical representing a multi billion dollar market opportunity
 - Medical
 - Corporate
 - Consumer App.
- Strong lead over any potential competing technologies and exclusivity over the use of CHR – IP secured
- Significant cost advantage over any other competing technologies
- Revenue not dependent on regulatory approval – can generate income via range of applications
- Commercialising the first vertical now - 5% of the US market generates \$200 million annual revenue
- Scalable, low cost, and high margin – minimal capital outlay or operating expenditure
- The next six months will be transformational for the company