

# **Biotech** Daily

# Friday March 27, 2020

# Daily news on ASX-listed biotechnology companies

\* ASX, BIOTECH DOWN: ANTISENSE UP 24%; IMPEDIMED DOWN 15%

- \* DR BOREHAM'S CRUCIBLE: ZELIRA THERAPEUTICS
- \* RESMED RAMPS UP COVID-19 VENTILATOR, MASK PRODUCTION
- \* ANTEO RIGHTS RAISE 'EXCELLENT' \$2.15m OF HOPED-FOR \$3.2m
- \* ADMEDUS IMPLANTS 1st SAVR TRIAL AORTIC STENOSIS PATIENT
- \* REGAL FUNDS REDUCES TO 6% OF MEDADVISOR
- \* MORGAN STANLEY, MITSUBISHU CEASE IN OPTHEA
- \* ADALTA LOSES DR WILSON, DR WILLIAMS, \$805k R&D LOAN, FEES CUT
- \* MGC 4<sup>th</sup> DAILY MARIJUANA COVID-19 J-V SUSPENSION EXTENSION
- \* G MEDICAL REQUESTS 'PRODUCT REGISTRATION' TRADING HALT

#### MARKET REPORT

The Australian stock market fell 5.3 percent on Friday March 27, with the ASX200 down 270.9 points to 4842.4 points. Eighteen of the Biotech Daily Top 40 stocks were up, 20 fell, one traded unchanged and one was untraded. All three Big Caps fell.

Antisense was the best, up one cent or 23.8 percent to 5.2 cents, with 4.8 million shares traded. Oncosil climbed 19.05 percent; Patrys was up 16.7 percent; Actinogen was up 11.8 percent; Osprey and Proteomics were up more than nine percent; LBT improved five percent; Clinuvel, Cyclopharm and Dimerix were up more than four percent; Prescient was up 3.7 percent; Ellex, Nanosonics, Opthea and Pro Medicus rose more than two percent; Amplia and Telix were up more than one percent; with Mesoblast up 0.8 percent.

Impedimed led the falls, down 0.7 cents or 14.9 percent to four cents with 2.9 million shares traded. Cynata lost 11.0 percent; Uscom was down 9.6 percent; Cochlear fell 8.6 percent; CSL, Medical Developments and Neuren were down more than seven percent; Universal Biosensors was down 6.25 percent; Alterity, Imugene, Kazia and Paradigm fell five percent or more; Immutep, Orthocell and Resonance retreated more than four percent; Avita, Compumedics and Volpara were down more than three percent; Starpharma shed 2.55 percent; Pharmaxis and Resmed were down more than one percent; with Next Science and Polynovo down by less than one percent.

## DR BOREHAM'S CRUCIBLE: ZELIRA THERAPEUTICS

**By TIM BOREHAM** 

ASX code: ZLD; OTCQB: ZLDAF

Share price: 3.2 cents

Shares on issue: 972,528,406

Market capitalization: \$31.1 million

Chief executive officer: Dr Richard Hopkins

**Board:** Osagie Imasogie (chairman), Harry Karelis (executive deputy chairman), Dr Hopkins, Lisa Gray, Dr Oludare Odumoso (US managing director), Jason Peterson

**Financials (December half 2019):** income \$13,210 (down 72%), loss of \$2.6 million (previous deficit \$2.1 million), cash on hand\* \$1.12 million, estimated March quarter outflows \$1.5 million

\* Cash balance bolstered by \$4.64 million placement post balance date.

**Major identifiable holders:** Jason Peterson 7.7%, Harry Karelis 5.1%, Mara Gordon 4.5%, Stewart Washer 3.6%, Merchant Leaders Fund 3.3%, Osagie Imasogie 1.7%, Lisa Gray 1.7%.

Zelira chief Dr Richard Hopkins confirms what your columnist suspected was a selfserving myth perpetuated by overzealous users of the intoxicating herb: no one has ever been recorded as overdosing on cannabis over millennia of usage.

"The safety profile is amazing and that's the bit that everyone has forgotten," Dr Hopkins says.

He further muses that medical pot has gone from being outlawed to grudgingly accepted and then classed as an essential service. Yes, that's right! During the Covid-19 lockdowns in the US, cannabis outlets are open as usual.

Bearing in mind that 30 to 40 percent of clinical trials are halted for safety reasons, marijuana's innocuous status\*\* is one less hurdle to overcome as Zelira seeks to commercialize its medicinal cannabis formulation ZLT-101, for the treatment of chronic insomnia.

Last month Zelira revealed the results of a phase lb/lla trial that showed a "statistically significant" improvement among the 23 sleepless participants (more details below).

"Globally we are the first company to take a full spectrum cannabis product and test it for efficacy in the insomnia space," Dr Hopkins says.

"We will be one of the few cannabis companies in the world with clinical validation."

While any regulatory approval is a long way off, Zelira hopes to release the drug as an unregistered product, generating significant revenues within months.

After all, sometimes counting sheep just doesn't cut it.

### From Zelda to Zelira

The Zelira moniker is an amalgam of Zelda and Ilera, which as far as concocted names go is a fairly logical and elegant one.

The California based Zelda back-door listed on the ASX on November 22, 2016, having raised \$4 million at 2.5 cents apiece. The name derived from the company's association with pot shop Aunt Zelda's, also founded by Zelda co-founder Mara Gordon.

Zelda's other founders were local biotech likely lads Harry Karelis (Titan Capital Partners), Dr Stewart Washer (lots of biotech boards) and Jason Peterson from CPS Capital.

Aimed at becoming one of the few marijuana companies with clinical validation, Zelda entered a baffling array of liaisons and collaborations. Partners include or included the listed pot stock Auscann in a joint venture in Chile; and Suda Pharmaceuticals to develop an oral mist delivery product.

In keeping with the company's Perth domicile, the local medical research house Telethon Kids Institute and Curtin University are also research partners.

Zelira also has a tie-up with the recently listed Emerald Clinics (with chairman Dr Stewart Washer), in view of accessing data for patients treated for pain and insomnia.

In May 2018, the company recruited molecular biologist Dr Richard Hopkins as CEO. Dr Hopkins formerly led the ASX listed doggie drug play Pharmaust; and previous to that led and co-founded Phylogica, with Dr Stewart Washer and Harry Karelis.

In October last year, the company announced the scrip acquisition of the Pennsylvania based Ilera, which provides over-the-counter cannabis therapies under the Hope brand.

The key here is that llera licences the product on a state-by-state basis and doesn't touch the stuff itself, resulting in low overheads.

Zelira has also partnered with Europe's Hapa Pharm BV to access the medical cannabis group's certified manufacturing facilities and its German distribution network.

The merger saw llera founders Osagie Imasogie installed as chairman, with llera's Lisa Gray also assuming a board seat. Mr Karelis stayed on as deputy chair, while Ms Gordon and Dr Washer resigned, with Ms Gordon remaining on the company's medical board.

#### Pleazzzing trial results

Carried out at the University of Western Australia's Centre for Sleep Science, the trial registered 24 chronic insomnia patients, aged between 25 and 70 years.

The study was randomized, double-blinded and placebo controlled, with a crossover structure which involved the human guinea pigs being treated with 14 nights of ZTL-101 and 14 nights of placebo.

To further remove bias, the patients were not told the trial involved cannabis, although they were all subjected to a pre-trial test to gauge their sensitivity to the weed.

Depending on the severity of their symptoms, the 23 patients satisfying the trial protocols were administered 11.5 milligrams of total cannabinoids in 0.5 millilitre doses, or 23mg in 1.0 millilitre doses.

The description of the results descends into scientific mumbo jumbo, but the key message is that the ZTL-101 reported benefits that were only a slim chance of being a fluke (a 'p' – probability – score of less than 0.001).

The improvement was measured by a standard measure called the Insomnia Severity Index.

Interestingly, 17 of the participants reported non-serious side effects including dry mouth, headache and "feeling abnormal" (a.k.a a little bit floaty and woozy).

Intriguingly four placebo recipients also reported adverse effects including "variable mood", but perhaps they were just cross that the 'drug' wasn't working.

Dr Hopkins notes that it would be impossible to conduct such a trial in the US, because medical dope is still not legal at a Federal level.

While only 23 people, the crossover design meant it was in effect 46. "It's not so much big numbers that's important, but how the trial is powered."

## What now?

Here's the size of the prize: 70 million Americans have insomnia. They're not just Sleepless in Seattle but also tossing and turning in New York and New Mexico. And the Covid-19 pandemic and panic won't be helping.

Over-the-counter insomnia treatments generate \$US2 billion of annual revenue in the US.

Dr Hopkins says the global insomnia market is worth \$US10 billion and dominated by benzodiazepines and opioids.

"We desperately need something other than these addictive drugs - and in many cases medical cannabis is an option," he says.

He cites the experience of GW Pharma which owns Epidiolex, approved by the US Food and Drug Administration for a rare form of epilepsy.

In its first nine months on market, Epidiolex generated \$US350 million of revenue.

"We have a much bigger addressable market."

The obvious question is why insomniacs won't access a joint - legal in many US states - and gently inhale themselves into a slumber, perhaps with a nip of Jack Daniels on the side?

Dr Hopkins says Zelira is targeting the tinctures and oils market which has operated differently to the recreational market, which is focused on flowers or processed derivatives of the bud.

He says "we are no threat to the recreational market" - and that means the recreational market is no threat to Zelira.

Zelira has also patented what we thought couldn't be owned: the formulation that stipulates the ratio of THC (tetrahydrocannabinol) to the cannabidiol (CBD).

#### Finances and performance

The Ilera merger delivers a wider portfolio of products under the Hope banner, due to hit the market this year.

Two formulations are generating revenues, but this income is yet to hit the accounts: in the December half the company reported \$13,210 of interest income and a \$2.57 million loss.

At the time the company had cash of \$1.2 million, supplemented post balance date with a \$4.64 million placement executed at five cents a share.

In early 2018, Zelda started trading on the New York OTCQB, an exchange for small caps still on trainer wheels. But Dr Hopkins says a Nasdaq listing is a "case of not if but when" - possibly in 12 months.

The Ilera purchase was satisfied by issuing 113,601,290 Zelda shares, at a nominal 5.5 cents a share.

Two tranches of performance rights (both amounting to 362,620,322 shares) are payable to Ilera's vendors, when revenue hits \$US1 million and \$US2.5 million respectively. If these hurdles are achieved, Ilera emerges with 50 percent of the Zelira register.

After an initial flurry after the insomnia results, Zelira shares have trended downwards, having been as high as nine cents in late July 2019. The stock traded as low as 2.2 cents on March 23 – a day of overall share market horrors.

#### What's next?

Beyond insomnia, Zelira is also interested in the market for post-traumatic stress disorder, autism and opioid reduction. The latter should press a few hot buttons in the US, given the country's well-aired problems with Hillbilly Heroin (the potent prescription painkiller oxycodone).

In February, the company said it had fully enrolled a phase lb trial of long-term opioid users. Dosing is due to be completed by April with results by mid-2020.

The trial is being conducted at St Vincent's Hospital in Melbourne, with Emerald Clinics in Perth hosting a second site.

The dose escalation trial will focus on safety, but will also record the patients' pain, mood, sleep and opioid usage levels.

Dr Hopkins promises two more revenue-generating products towards mid-year. "One will be oral over the counter and another one dermatological - it's bloody exciting."

#### Dr Boreham's diagnosis

Zelira is gearing up its US adventures at a time when the FDA plans to take a long, hard look at the proliferating over-the-counter trade in unproven cannabis remedies.

At last count, medical cannabis was legal in 34 countries and 33 US states. Elsewhere, Australia, New Zealand, Britain and Germany are potential markets.

In the crowded ASX pot space, it pays to have attributes above and beyond a licence to grow the stuff and vague intentions to devise new-fangled delivery mechanisms or cannabis infused honey or beer ... or even instant tea.

The closest ASX-listed exemplar to Zelira is Medlab, which has a focus on oncologyrelated pain but also generates revenue from food additives here and in the US.

No fewer than 70 biotech watchers tuned into Zelira's briefing post the clinical results, which shows the audience still hankers for properly validated treatments.

There'll be quite a bit of news coming out of the Zelira camp and in the meantime the stock is a sleeper, so to speak.

\*\* (Non) government health warning: cannabis usage may not be safe for other reasons including accidents induced by psychosis, mental health issues, slothfulness and appetite overstimulation (also known as 'the munchies'). You wouldn't want to have to take a random drug driving test, either ....

# Disclosure: Dr Boreham is not a qualified medical practitioner and does not possess a doctorate of any sort. He has the gift of sleep, and counting sheep - usually just one of them - does the job.

#### <u>RESMED</u>

Resmed chief executive officer Mick Farrell says the company stands with the world in the face of Covid-19 and will help mitigate its effects.

In an internet post, titled 'Coronavirus: Stay informed - what we're doing for customers and patients affected by Covid-19 and how you can stay safe' Mr Farrell said that more than 7,500 Resmed staff were working in more than 140 countries to combat Covid-19. The post is available at: <u>https://www.resmed.com/en-us/covid-19/</u>.

"Our primary focus is to maximize the availability of Resmed ventilators and other respiratory support devices for the patients that need them most," Mr Farrell said. Mr Farrell said many ventilators and bilevel respiratory devices were cloud-connected, "enabling physicians and respiratory specialists to remotely monitor their patients".

"There could not be a clearer case for the use of digital health and remote monitoring of patients than this current crisis with a virus that is so contagious stemming from direct human contact," Mr Farrell said.

Mr Farrell said that Resmed staff had been working in China, Malaysia, Singapore and other countries to "set up thousands of people on Resmed ventilators and Resmed masks" and keep manufacturing plant producing ventilators and ventilation masks. "Resmed is taking every measure possible worldwide to maximize the production of ventilators, masks, and other respiratory devices," Mr Farrell said.

"We are looking to double or triple the output of ventilators, and scale up ventilation mask production more than tenfold," Mr Farrell said.

Mr Farrell said he "would like to personally thank the front-line clinical heroes - many thousands of respiratory therapists, respiratory nurses, pulmonary and critical care medicine physicians, as well as hospital and clinical staff who set up our ventilators and masks for patients in need and deliver the lifesaving gift of breath".

"You are the superheroes of this Covid-19 crisis, and we salute you!" Mr Farrell said. Resmed fell 25 cents or 1.1 percent to \$22.57 with 2.7 million shares traded.

#### ANTEOTECH

Anteotech says its partly-underwritten, one-for-seven, renounceable rights issue has raised \$2.15 million of the hoped-for \$3.2 million.

Anteo said it considered the raising "to be an excellent outcome in an environment of unprecedented market turbulence, with the All Ordinaries index falling more than 30 percent since the announcement and reflects the ongoing and strong support of Anteotech from shareholders, directors and new investors".

The company said that 143,766,118 shares and 71,883,059 options exercisable at 3.0 cents each by March 31, 2023 would be issued to investors.

Anteo said that it had applications for \$1,282,269 in shares with shortfall applications for a further \$874,123 of shares.

Anteo was unchanged at 1.5 cents.

#### **ADMEDUS**

Admedus says it has implanted the first of 15 aortic stenosis patients with its Adapttreated 3-D aortic valve in its first-in-human surgical aortic valve replacement (Savr) trial. Admedus said the valve was implanted at the Leuven, Belgium-based University Hospitals by Prof Bart Meuris, the patients would be followed-up for six months with results expected by October 2021.

Admedus was up 75 cents or 20.1 percent to \$4.48.

#### **MEDADVISOR**

Sydeny's Regal Funds Management says it has reduced its substantial holding in Medadvisor from 126,875,329 pre-consolidation shares (7.38%) to 15,366,837 (6.25%). In November, Medadvisor said it conducted a seven-to-one consolidation to reduce its shares on offer from 1,718,569,088 shares to 245,509,182 shares (BD: Nov 20, 2019). Today, Regal said it bought and sold shares between October 21, 2019 and March 24, 2020, with the single largest post-consolidation purchase 1,189,311 shares on November 29, 2019 for \$344,900 or 29 cents a share and the single largest post-consolidation sale on March 24, 2020 of 406,760 shares for \$142,524 or 35.0 cents a share. Medadvisor fell 5.5 cents or 13.6 percent to 35 cents with 1.4 million shares traded.

#### <u>OPTHEA</u>

Morgan Stanley, Mitsubishu UFJ Financial Group and subsidiaries say they have ceased to be substantial shareholders in Opthea.

On Tuesday, Morgan Stanley and Mitsubishu said they had become substantial with 19,508,775 shares or 7.25 percent of the company (BD: Mar 24, 2020).

Today, Morgan Stanley and Mitsubishu said that they bought and sold shares between March 20 and 24, 2020, in hundreds of small trades.

Opthea was up 4.5 cents or 2.6 percent to \$1.805 with 1.2 million shares traded.

#### <u>ADALTA</u>

Adalta says directors Dr Rosalind Wilson and Dr James Williams have retired, it has received a \$805,118 loan and board fees have been cut.

Adalta said the loan was a second advance under its Radium Capital facility and amounted to 80 percent of its Federal Research and Development Tax Incentive rebate for the three months to December 31, 2019.

The company said Dr Williams would become an alternate director to Liddy McCall and Dr Wilson had retired "to enable her to devote greater time to other executive responsibilities".

Adalta said non-executive director fees had been suspended until further notice, but chairman Dr Paul MacLeman would continue to receive a chair fee, amounting to 50 percent of his total fees.

Adalta was up 0.8 cents or 19.5 percent to 4.9 cents.

#### MGC (MEDICAL GRADE PHARMACEUTICALS) PHARMACEUTICALS

MGC has requested a fourth extension to its voluntary suspension following the trading halt requested on March 19, 2020 for a Covid-19-related joint venture.

On March 19, MGC requested a trading halt pending an announcement on "a material agreement regarding a strategic joint venture with a Swiss company in relation to Covid-19" (BD: Mar 19, 2020).

On Monday, the company requested a voluntary suspension, followed by daily extensions to the suspension (BD: Mar 23, 24, 25, 26, 2020).

Today, MGC said it expected the suspension to last until March 31, 2020. MGC last traded at 1.7 cents.

# **G MEDICAL INNOVATIONS**

G Medical has requested a trading halt "pending the release of an announcement regarding an update on the registration status of the company's products". Trading will resume on March 31, 2020 or on an earlier announcement. G Medical last traded at 4.5 cents.