Company Update
March 2018
Advancing Pancreatic Cancer Treatment
OncoSil Medical | Investment Highlights

1. Clear mission
   Commercialising a breakthrough implantation radiation treatment for Pancreatic cancer

2. Sound science
   Current and previous clinical studies demonstrate:
   - Excellent Local Disease Control
   - Significant reduction in tumour size and volume
   - Excellent safety and tolerability profile
   - Ease of implantation

3. Clear strategic path
   - Targeting >$2bn market opportunity to improve standard of care
   - US FDA-approved IDE in place, safety run-in underway
   - EU regulatory approval, CE Marking expected near-term
   - Highly experienced management team; strong clinical and commercial pedigree
   - Manufacturing and logistics optimised for supply of commercial quantities
   - At a potential value inflection point with multiple paths to commercialisation
OncoSil Medical

OncoSil™ is a first in class medical device for the treatment of unresectable locally advanced pancreatic cancer

First in class technology
- Proprietary brachytherapy (internal radiation) medical device
- Cancer is treated by implantation of radioactive micro-particles into a tumour via ultrasound guided endoscopy with negligible surrounding healthy tissues damage
- Patent protected in all major geographies
- Class III Medical device in the US and AIMD in EU

Financial information
Share price (as at 6-Mar-18) A$0.14
52 week range A$0.08-0.18
Shares on Issue 484.9m

Market capitalisation A$67.9m
Cash (31 December 2017) A$5.2m
Debt (31 December 2017) Nil
Enterprise value A$62.7m

Substantial shareholders
Regal Funds Management 7.5%
Webinvest 5.1%
Management and Directors 14.1%

Share price performance (1 year)
About the OncoSil™ device
An implantable radiotherapy medical device targeting pancreatic cancer

OncoSil™ is a **single-use brachytherapy device**

Delivered through **microparticles**: 30-micron silicon particles contain beta-emitting Phosphorus-32 (32P)

OncoSil™ Microparticles are inserted **directly into the tumour**

Radiation from the microparticles causes direct damage to cancer cell DNA. The device being active for approximately 3 months after implantation

Microparticles stay in the tumour permanently
Implantation procedure

Studies continue to show the device implantation is technically straightforward.

OncoSil™ dose is suspended in a specially formulated fluid for implantation.

Endoscope guided into the upper intestine.

Using CT or real-time imaging, the needle is guided into the target lesion (tumour).

OncoSil™ injected directly into the tumour.
OncoSil at a potential value inflection point
The Company is well positioned to realise value of OncoSil™ device

**Current focus**

**Before 2015:**  
*Demonstrate potential*  
- 4 studies show potential of OncoSil™ to treat pancreatic & primary liver (HCC) cancer

**2016 to 2018:**  
*Satisfy regulatory obligations*  
- Secured US FDA IDE approval  
- Initiated PanCO & OncoPac-1 clinical studies  
- Highly positive early safety, efficacy and implant delivery data consistent with results from previously completed studies

**2018 onwards:**  
*Path to commercialisation*  
- Secure strategic partnerships and licensing agreements in all key geographies  
- Secure licensing agreements in unique geographies  
- Leverage potential for broader distribution, capital and market support and exposure
Clinical pathway overview
PanCO and OncoPaC-1 to inform future studies

Phases:

Current focus
2 concurrent trials, targeting 65 patients total

Future focus
Studies to drive clinical adoption (EU & global) and secure US FDA approval

Trials:

PanCO – 45 patients
Open label study in patients with unresectable locally advanced pancreatic cancer with OncoSil given in combination with SOC chemotherapy

OncoPaC-1 – 20 patients
Open label study in patients with unresectable locally advanced pancreatic cancer with OncoSil given in combination with SOC chemotherapy

Regulatory milestones:

CE Mark: Company to provide 16 week data for first 20 patients to EU Notified Body by 31 May 18

Future trials to drive clinical adoption in EU and to generate data for US FDA approval (PMA)

Company exploring clinical study options in resectable, borderline resectable and locally advanced pancreatic cancer indications.

Final decision on future studies to be taken based on data received from ongoing studies and feedback from US FDA*

Current trials inform future trials*

*FDA granted OncoSil an IDE (July 2016) and has requested 20 patient safety run. 10 patients must come from OncoPaC-1

OncoSil Medical
## PanCO study – positive results to date

Positive clinical data on 20 patients (at Week 8) and 14 patients (at Week 16)

<table>
<thead>
<tr>
<th>Patients recruited and implanted</th>
<th>38 patients enrolled in the study¹</th>
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<tbody>
<tr>
<td></td>
<td>28 patients implanted¹</td>
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</table>

### Clinical performance

- **Excellent local Disease Control Rate (DCR) of 100% (Week 8) and 87% (Week 16)**
- **4 out of 20 implanted patients have achieved a Partial Response** *(Partial Response defined as a reduction in tumour longest diameter of at least 30% from baseline)*
- **3 out of 20 implanted patients now considered for surgical resection** *(Resection is the only potential cure for pancreatic cancer, demonstrating possibility of improved outcomes in patient group deemed inoperable at time of study entry)*
- **Substantial tumour volumetric reduction** observed in patients
  - Up to **73% volumetric reduction** at Week 8 (median volumetric reduction 29%)
  - Up to **72% volumetric reduction** at Week 16 (median volumetric reduction 39.5%)

### Safety

- **No Serious Adverse Events (SAEs) attributed to device or implantation procedure** *(SAEs related to chemotherapy or cancer progression)*
- **No evidence of radiation toxicities**
- **No other safety concerns identified to date**

### Implantation procedure

- **OncoSil™ device delivery via EUS considered straightforward for implantation**

¹. As at 7-Mar-18
Significant opportunity for OncoSil

Current available treatment for pancreatic cancer

- Surgery (resection), if diagnosed early enough
- Chemotherapy (Gemcitabine and Abraxane)
- External radiation therapy

Issues with current standard of care

- Symptoms often unnoticed until cancer has metastasised; poor prognosis even with therapy:
  - Median survival ~8 months\(^1\)
  - 5 year survival less than 5\(^%\)\(^1\)
- Surgery not feasible in 85% of patients
- Chemotherapeutic treatments limited effectiveness and are very toxic
- Radiation therapy is toxic to the patient’s GI tract

The opportunity for OncoSil

- Only two drugs to have made significant improvements in pancreatic cancer in over 20 years:
  - Gemcitabine approved over 21 years ago and Abraxane approved in 2013
  - Median overall survival has increased by only 2 months (to 8.5 months) over the past 20 years

Significant opportunity for OncoSil to become standard of care in combination with Chemotherapy

1. American Cancer Society 2010
   Accessed on 9 September 2015
Positive reception at key conferences

Early study data presented at European Association of Nuclear Medicine (EANM) Annual Congress and European Society of Medical Oncology (ESMO)

- The EANM is the largest organisation dedicated to Nuclear Medicine in Europe
- OncoSil presented early study results to EANM Annual Congress in Vienna on 21 October 2017
- ESMO is Europe’s leading non-profit medical oncology organisation
- OncoSil presented details of its trial design to ESMO World Congress on Gastrointestinal Cancer in Barcelona in July 2017

Future conference presentations in 2018

- World Congress of the World Federation of Nuclear Medicine and Biology
  Melbourne, April 2018
- Digestive Disease Week
  Washington, June 2018
## Partnering with leading cancer centres

15 leading cancer centres participating in Global Pancreatic Cancer clinical programme

<table>
<thead>
<tr>
<th>Region</th>
<th>Centre</th>
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</table>
| US     | MD Anderson, Texas  
|        | Johns Hopkins, Maryland  
|        | Moffit Cancer Centre Florida  
|        | Cedars Sinai Hospital, LA  |
| UK     | Guy’s & St Thomas’, London  
|        | University of Leicester  
|        | Hammersmith, London  
|        | Addenbrookes, Cambridge  |
| Australia | Monash, Melbourne  
|          | St Vincent’s, Sydney  
|          | Westmead Hospital, Sydney  
|          | RNS Hospital, Sydney  
|          | Royal Adelaide  
|          | The Austin Hospital, Melbourne  |
| EU     | Jules Bordet Institute Hospital, Brussels  |
Clear pathway to commercialisation
Strategic partners provide multiple paths to market to optimise value

Well positioned for commercialisation

- **Broad technology platform**
  *Treatment for multiple solid tumours*

- **Excellent clinical results**
  *Pancreatic and primary liver cancer*

- **EU regulatory approval**
  *CE Mark certification for pancreatic cancer expected near-term*

- **Significant unmet clinical need**
  *Over 130,000 patients diagnosed with pancreatic cancer in US and EU every year*

Potential paths to market

- **Strategic licensing partners in all key geographies**
  - EU
  - US

- **Additional licensing partners in unique geographies**
  - China
  - Japan
  - India

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Target markets
Annual incidence

Global opportunity

Pancreatic cancer | US>$2.0bn
Liver cancer | US$1.4bn

2. Datamonitor Healthcare 2013
3. OncoSil dose pricing, $USD 25,000
Global Commercial opportunity in excess of $2bn

130,000 cases per year in US+EU alone: more than 70,000 of these could benefit from OncoSil

Pancreatic cancer

Locally advanced
35-40%
OncoSil™ provides a suitable treatment to control the growth of the primary tumour and provide meaningful reductions in pain

Surgical re-section
15%
OncoSil™ could be used to downstage tumours prior to surgery to improve surgical outcomes

Metastatic disease
40-45%
Unlikely to benefit overall survival but OncoSil™ may be used to control tumour growth, alleviate pain and improve quality of life

More than 70,000 relevant patients in EU and US alone

**Company exploring clinical research options in re-sectable & borderline re-sectable patients**

OncoSil’s potential pricing of US$25,000 per patient (in-line with other on-market devices) implies >$2bn global market opportunity
OncoSil’s commercial path has precedent

Sirtex provides a useful case study to demonstrate the potential commercial journey for OncoSil due to similarities in addressable market.

- **24-Aug-00**: Listed on the ASX with Phase II and Phase III clinical trials completed for SIR-Spheres
- **5-Mar-02**: FDA approval for SIR-spheres achieved
- **23-Oct-02**: European approval granted
- **9-Dec-02**: First patient treated in the EU

Ramp up in SIR sales and market capitalisation post European approval
## Sector M&A trends

Over A$2bn of acquisitions in February 2018 highlights attraction of early-stage Australian biotech to global pharmaceutical players

<table>
<thead>
<tr>
<th>Acquiree</th>
<th>Acquirer</th>
<th>Consideration</th>
<th>Date</th>
<th>Premium</th>
<th>Technology</th>
<th>Deal status</th>
</tr>
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<tbody>
<tr>
<td>SIRTeX</td>
<td>varian</td>
<td>A$1.6 billion$^1$</td>
<td>30 Jan 2018</td>
<td>60% (1 month VWAP)$^2$</td>
<td>Brachytheraphy</td>
<td>Complete</td>
</tr>
<tr>
<td>OncoSil Medical</td>
<td>MERCK</td>
<td>A$502 million$^1$</td>
<td>22 Feb 2018</td>
<td>160% (1 month VWAP)$^2$</td>
<td>Oncolytic immunotherapy</td>
<td>Currently under offer</td>
</tr>
<tr>
<td>elastagen</td>
<td>Allergan</td>
<td>A$120 million$^1$</td>
<td>6 Feb 2018</td>
<td>Private company</td>
<td>Injectable tropoelastin</td>
<td>Subject to FIRB approval</td>
</tr>
</tbody>
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**Note:**

1. Based on disclosed consideration
2. Based on disclosed premium to target’s volume weighted average price prior to announcement
Board of Directors

- Board and management are experienced leaders in the pharmaceutical and medical device space, having held senior positions at **Cochlear** (ASX:COH), **Sirtex Medical** (ASX:SRX), ABIVAX, Baxter International, Roche and more
- Extensive leadership experience guiding products from clinical development to commercialisation
- **120+ years collective experience** in the health care industry

**Dr Chris Roberts**
Chairman
- Former CEO/President of Cochlear (ASX:COH)
- 40+ years industry experience
- Former Chairman of Sirtex (ASX:SRX) & Executive Vice-President of ResMed (ASX:RMD)

**Mr Daniel Kenny**
CEO & MD
- Proven biopharma professional, leading multiple $1bn+ franchises
- 30+ years industry experience
- Commercial development at ABIVAX & global strategic marketing & business development at Roche

**Dr Roger Aston**
Non Executive Director
- Biotech & pharma entrepreneur
- 20+ years industry experience
- Founder & former CEO of pSiMedica & pSiOncology
- FDA & EU registration, global licensing & equity capital raisings experience

**Martin Cross**
Non Executive Director
- Former Chairman of Medicines Australia
- Highly regarded pharmaceutical executive with 30+ years experience in corporate & industry leadership roles
Highly experienced management team

- Management team experienced leaders in the medical device space having held senior positions at Sirtex Medical (ASX:SRX)
- Extensive leadership experience in clinical studies, commercialisation and manufacturing & operations

Mr Daniel Kenny
CEO & MD
- Proven biopharma professional, leading multiple $1bn+ franchises
- 30+ years industry experience
- Commercial development at AIVAX & global strategic marketing & business development at Roche

Dr David James
Manufacturing & Operations Manager
- Ex Sirtex Medical global operations manager for 6 years
- Established Sirtex’s manufacturing and operations
- 25 years experience in pharmaceutical operations

Mr Tom Milicevic
Chief Financial Officer & Company Secretary
- Seasoned CFO with over 15+ years experience in the Medical Device sector
- Experience in investor relations and also Company Secretary duties

Nicole Wilson
VP Regulatory Affairs & Quality
- Regulatory affairs specialist focused on quality compliance and marketing registrations in the Asia, South America and middle East.
- Principal for the regulatory approvals in Brazil, Argentina and UAE for Sirtex.

Dr Ashish Soman
Chief Medical Officer
- Former country medical director, AstraZeneca Australia.
- 20+ years’ experience in clinical practice & the biopharmaceutical industry

Michael Warrener
Global Sales & Marketing Director
- Former Sirtex Medical Senior Executive
- Introduced Sir-Spheres in Australia, EU and Middle East markets

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OncoSil Medical
Key catalysts in CY 2018

- **CE Mark**
  - Target submission of 16 week 20 patient supplemental data to BSI by 31-May-18
  - Target CE Mark certification
  - Target EU first sales

- **Global Pancreatic Clinical Study programme**
  - Continued recruitment into the Global Pancreatic Cancer clinical study program, (PanCO & OncoPaC-1): 38 patients currently enrolled
  - OncoPaC-1 trial progress
  - Congress presentation of latest patient data from clinical programme

- **Strategic partnerships**
  - Securing strategic partnerships and licensing agreements in key geographies
  - Additional Licensing partners in unique geographies
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