

oncosil
MEDICAL
ASX:OSL

Advancing Pancreatic & Liver Cancer Treatment

**Australian Biotech Invest 2017
October 24th Melbourne**

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Investment Highlights

- Developing a **breakthrough implantable radiation treatment** for Pancreatic and Liver cancer
- Current and previous clinical studies demonstrate **significant reduction in tumour size & volume, good safety and tolerability profile and ease of implantation**
- **US FDA-approved IDE** in place, safety run-in underway
- Targeting a **\$1bn market opportunity** to improve standard of care
- **Manufacturing and logistics are optimized for supply of commercial quantities**
- **Highly experienced management team** with strong clinical and commercial pedigree
- Planning **commercial launch in Europe**, pending CE Mark

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 device that emits cancer-killing radiation into a tumour without damaging healthy surrounding tissues
- Patent protected class III medical device meaning it needs less clinical work, funding and time to get to market compared to drug development

Significant clinical achievements to date

- Previous Phase IIa study (DB2-201)
 - Significant anti-cancer activity
 - Target Tumour response rate 23.5%
 - Target Tumour control rate 82.4%
 - Median progression free survival 121 days
 - Acceptable safety profile and device well tolerated
 - Significant progress in FDA approval; IDE granted in July 2016
 - Global Pancreatic Cancer Study underway
 - Early data to be presented at EANM, Vienna October 2017

Financial information

Share price (as at 16-Oct-17)	A\$0.16
52 week range	A\$0.08-0.16
Shares on Issue	487.5m
Market capitalisation	A\$76m
Cash (31 September 2017)	A\$8.5m
Debt (31 September 2017)	Nil
Enterprise value	A\$67.5m

Substantial shareholders

Regal Funds Management	9.7%
Webinvest	5.9%
Management and Directors ¹	14.6%

OncoSil™ device overview

An implantable radiotherapy medical device targeting pancreatic and liver cancers

- ⊕ OncoSil™ is a **single-use brachytherapy device**
- ⊕ Delivered through **microparticles**: 30-micron silicon particles contain beta-emitting Phosphorous₃₂ (P32)
- ⊕ OncoSil™ microparticles are inserted **directly into the tumour**
- ⊕ Radiation **kills cancer cells directly**, with 98% of all radiation delivered within 81 days of injection
- ⊕ Inert microparticles stay in the tumour permanently



OncoSil™ procedure

The procedure is minimally invasive and allows for targeted radiation



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

Pancreas

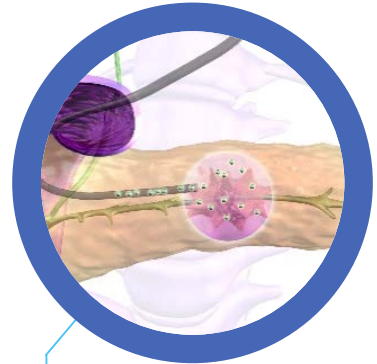


Endoscope guided into the upper intestine

Liver



Using CT or real-time imaging, the needle is guided into the target lesion



OncoSil™ injected directly into the tumour

EANM Congress – Early study results

Early results presented at European Association of Nuclear Medicine on 21-Oct-17

Clinical Performance

- Excellent local disease control – Disease Control Rate (DCR) 100% @ Week 8
- Early and substantial tumour volume reductions – up to 73% volumetric reduction observed 4 weeks post implant, Median volumetric reduction 34.5% at 4 weeks post implant
- No serious Adverse Events attributed to device or implantation procedure

Safety

Reassuring safety profile as conformed by First Independent Safety Review Committee meeting

- No SAEs attributed to device or implantation procedure
- SAEs related to chemotherapy or complications arising from cancer progression
- No evidence of radiation toxicities
- No other safety concerns identified to date

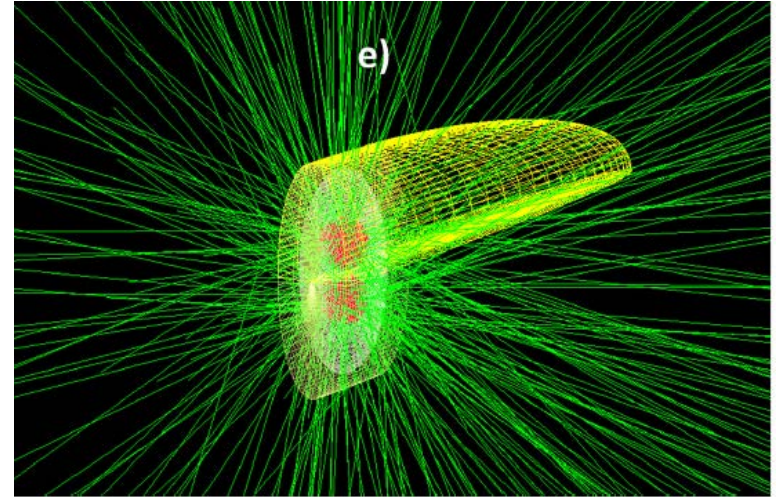
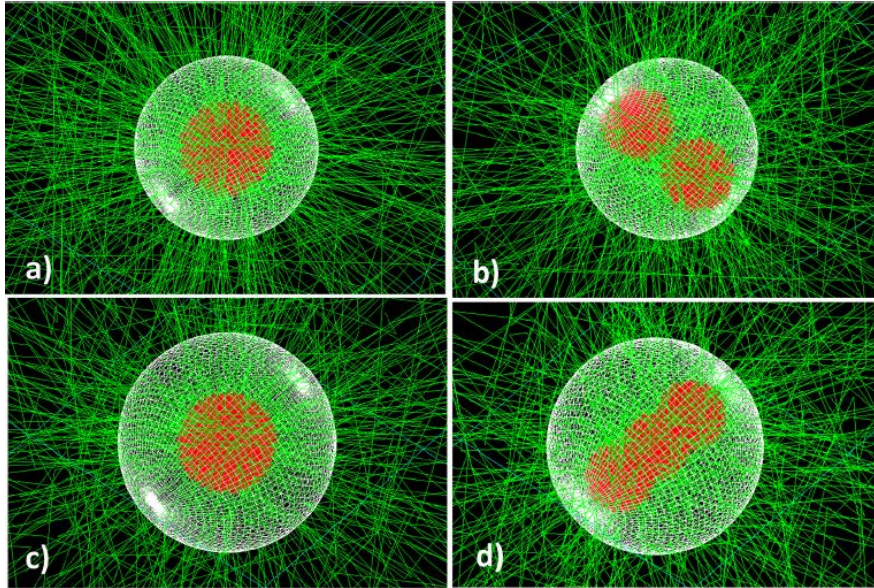
Implantation Procedure

- Continuing to refine and optimise implantation technique. OncoSil™ device delivery via EUS is considered easy to use for implantation.

Delivering a single dose of OncoSil™ microparticles

A single dose is implanted into the body of the tumour

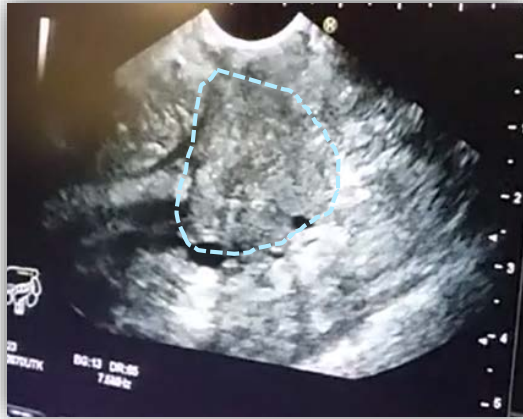
- Delivers 100 Gy of radiation to the tumour mass



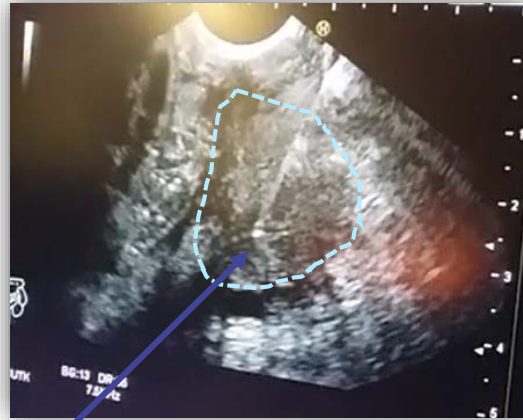
Gholami 2017. Int J Rad Oncol Biol Phys. 99; 4: 1029-1038

Implantation via Ultrasound guided endoscopy EUS

OncoSil™ device delivery via EUS is considered easy to use for implantation



Tumour Outline



Needle positioning



(zoomed in)

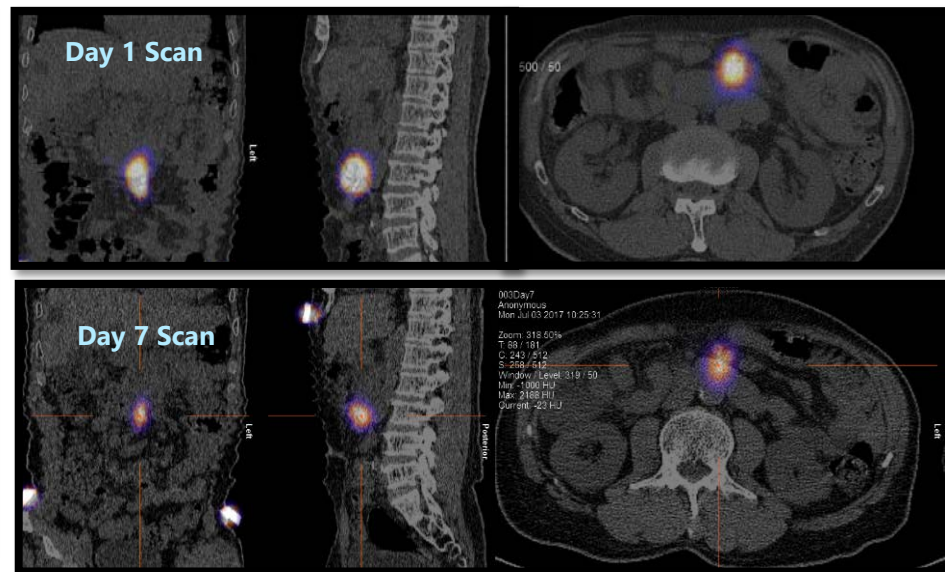
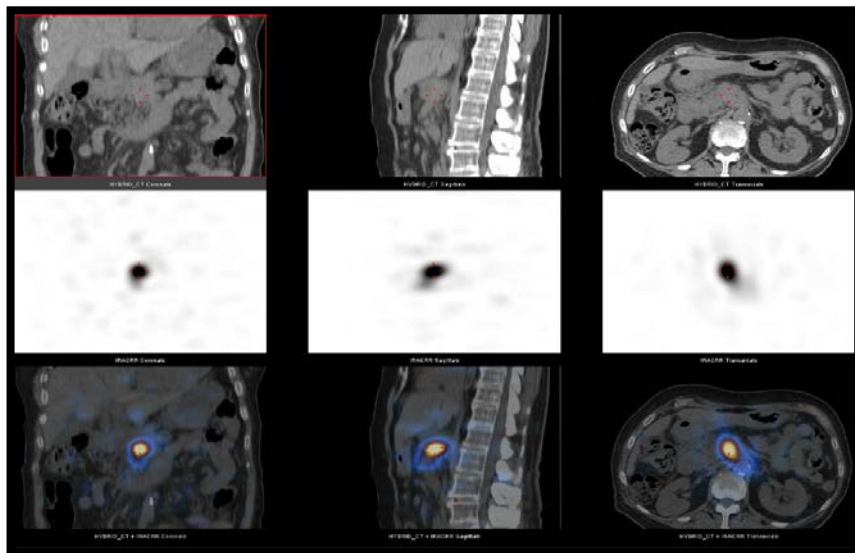
OncoSil™ deposition

Images post implantation

Coronal

Sagittal

Transverse





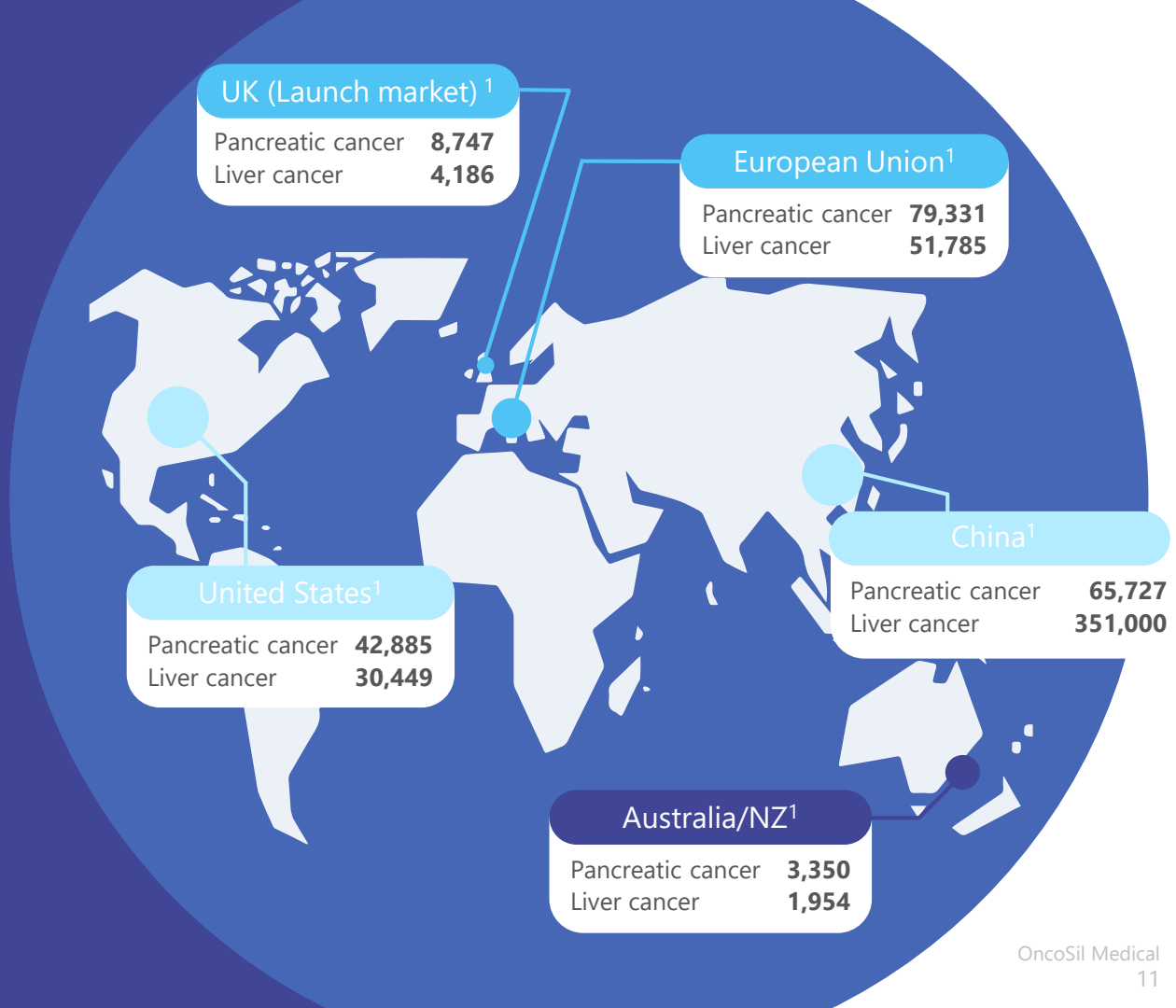
Target markets

Annual incidence

Global opportunity²

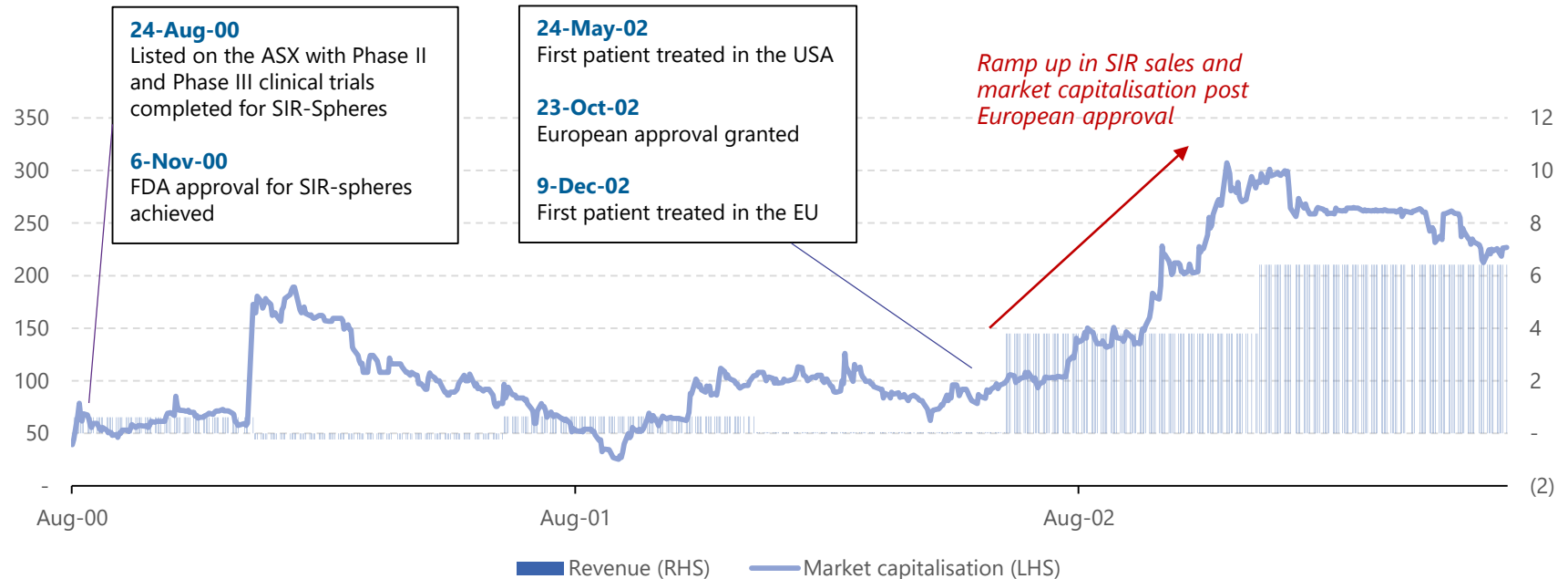
Pancreatic cancer	US\$1.0bn
Chemo regime	US\$60,000
External radiation	€9,000
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Liver cancer	US\$1.4bn

1. GLOBOCAN 2012: Estimated Cancer Incidence Worldwide in 2012 (IARC/WHO). Accessed 22 Apr 2016, from http://globocan.iarc.fr/Pages/fact_sheets_population.aspx
2. Datamonitor Healthcare 2013



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



Highly credentialed 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

Deeply 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 ABIVAX & global strategic marketing & business development at Roche



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



Dr Ashish Soman
Chief Medical Officer

- Former country medical director, AstraZeneca Australia.
- 20+ years' experience in clinical practice & the biopharmaceutical industry



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



Nicole Wilson
VP Regulatory Affairs

- 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.



Michael Warrenner
Global Sales & Marketing
Director

- Former Sirtex Medical Senior Executive
- Introduced Sir-Spheres in Australia, EU and Middle East markets

Daniel Kenny

CEO & Managing Director

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