



ASX Announcement

3 July 2020

Optiscan Presentation

Optiscan Imaging Limited (ASX: OIL, Optiscan) provides a copy of the attached presentation from the Zhejiang Provincial Science and Technology Cooperation Center Conference.

For and on behalf of Optiscan Imaging Limited:

Darren Lurie
Executive Chairman

About Optiscan

Optiscan is an Australian company that has developed and patented miniaturised confocal microscopes and is a global leader in the development and application of microscopic imaging and related technologies for medical and research markets.

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Optiscan Imaging Ltd (ASX:OIL)

Enabling “Real-time Virtual Biopsy” for
Human Cancer Screening and Surgical
Margin Detection

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Corporate Snapshot

Board

Darren Lurie – Executive Chairman

B.LLB (Hons) and B.COM (Hons)

Former Group CFO and Head of Corporate Development for EduCo International (an investee company of Baring Private Equity Asia). Darren is a former chair and non-executive director of ASX listed Farm Pride Foods Ltd (ASX:FRM).

Dr Philip Currie – Non Executive Director

MBBS (Hons), FRACP, MBA

Dr Currie is a leading cardiologist with more than 35 years experience in medical research, clinical cardiology and business. He completed his cardiology fellowship at the prestigious Mayo Clinic, staff cardiologist at both Mayo Clinic and Cleveland Clinic and was the Director of Echocardiography at Michigan Heart and Vascular Institute.

Graeme Mutton – Non Executive Director

CPA

Graeme is a long-standing shareholder in Optiscan and has a deep understanding of Optiscan's technology and applications. He is a former manager of an accounting practice and successful business owner and operator.

Total Securities on Issue

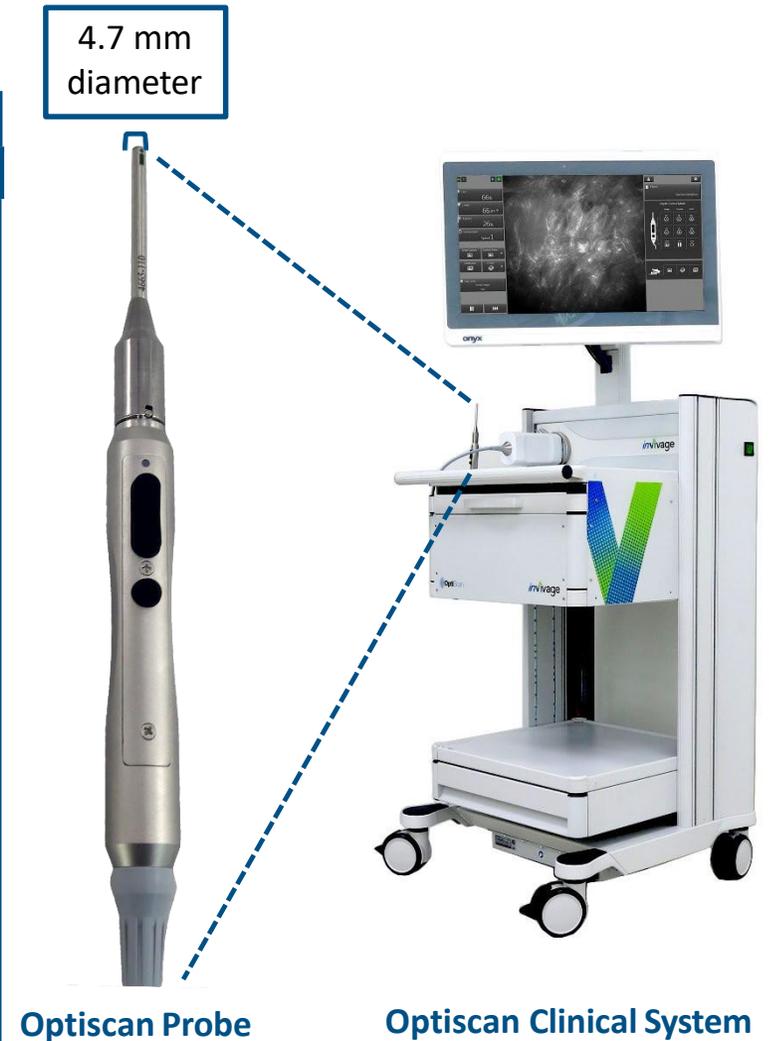
- 477,778,800 Ordinary Shares
- 25,600,000 unlisted options

Market Capitalisation: ~A\$18million @3.7c

OPTISCAN Introduction - Technology

Optiscan Technology

- Successful Development of hand-held Confocal Microscope for Medical and Research Imaging
- World-leading and Patent Protected Technology
- Real-time “Virtual Biopsy”, visualisation of human living tissue
- Capture all Cancer Cells in Surgery and reduce cutting of surrounding Tissue (“Tumour Margin”)
- Reduce Number of and More Targeted Biopsies
- 4mm Diameter Probe (4.7mm inc Sheath)
- Incorporated in Optiscan “InVivage” and Carl Zeiss Meditec “Convivo” devices



Clinical Confocal Laser Endomicroscopy Applications

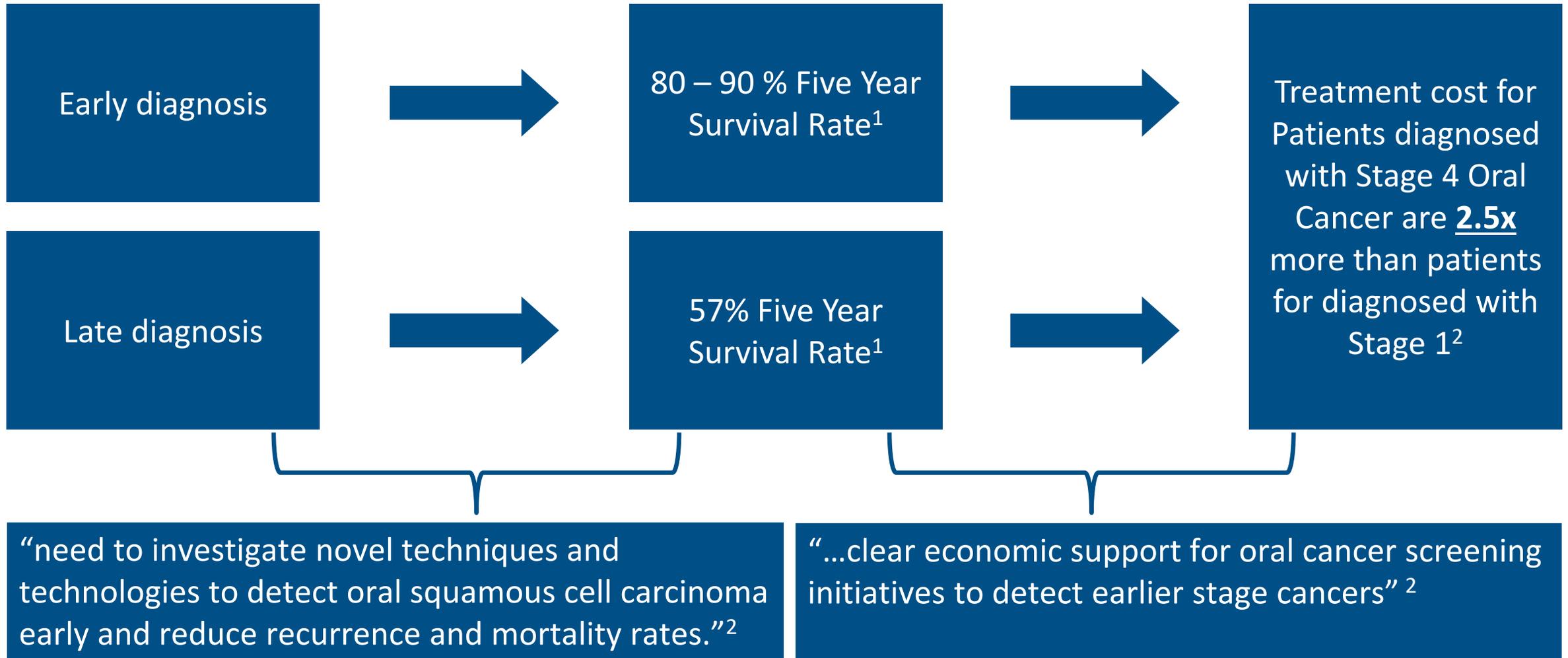
Clinical Applications and Devices:

- Oral Cancer - InVivage[®]
- Breast Cancer - InVivage[®]
- Neurosurgery – CONVIVO[®] (Carl Zeiss Meditec Co-operation)

Pre-clinical Device: FIVE2 (ViewVivo[®])

Cancer research, Tissue regeneration, Cell tracking, Photodynamic Therapy, Infection & treatment, Pharmacology, Pathology, Microvascular research, Animal models, Molecular Imaging

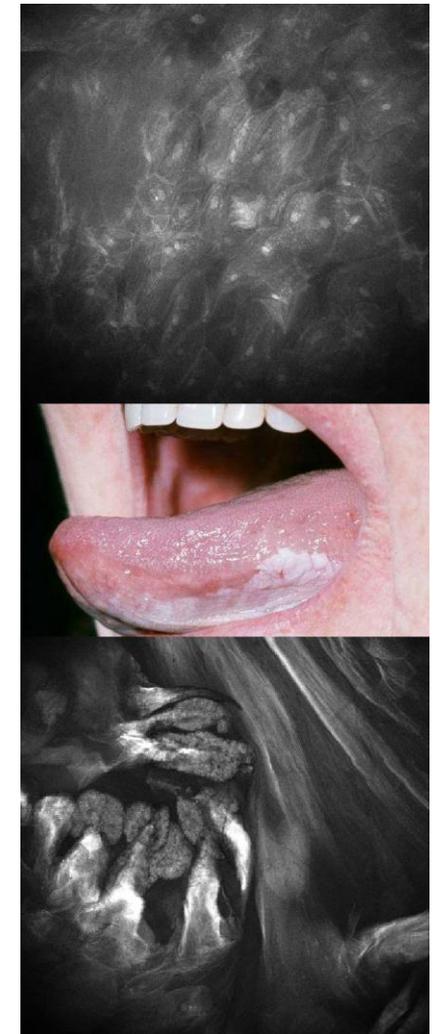
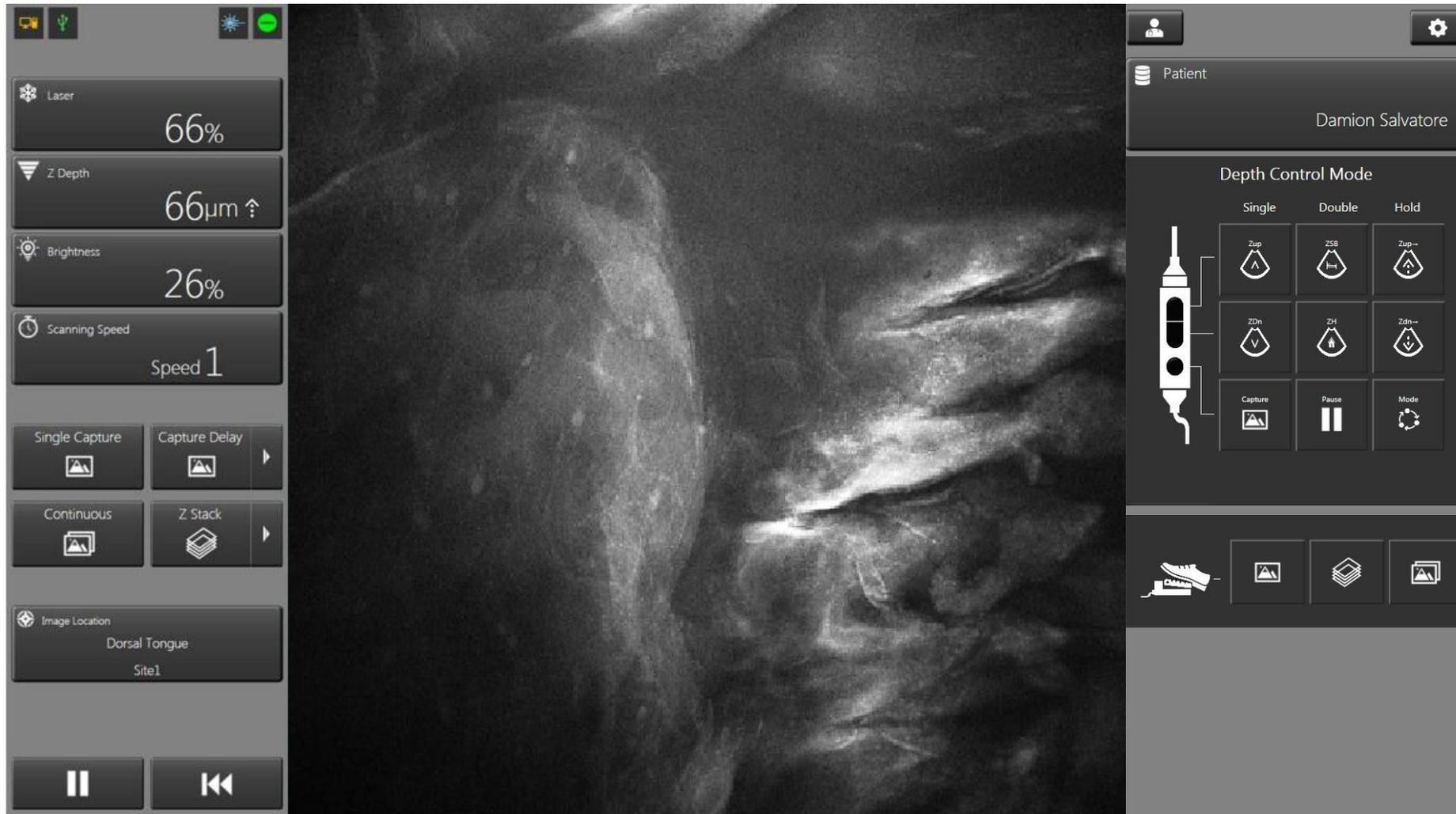
Oral Cancer Diagnosis, Survival Rates and Economic Cost



1. Oral Cancer Foundation. <https://oralcancerfoundation.org/>

2. Pollaers, K., et al., The economic burden of oral squamous cell carcinoma in Australia. Journal of Oral Pathology & Medicine, 2019. 48(7): p. 588-594. doi: 10.1111/jop.12907. Epub 2019 Jun 27.

New InVivage® User Interface Designed for Doctors



Squamous epithelial cells and taste bud papillae in tongue (0.5mm x 0.5mm view)

OPTISCAN – Oral Cancer FY2020 Progress

3 Oral Cancer Studies and Trials:

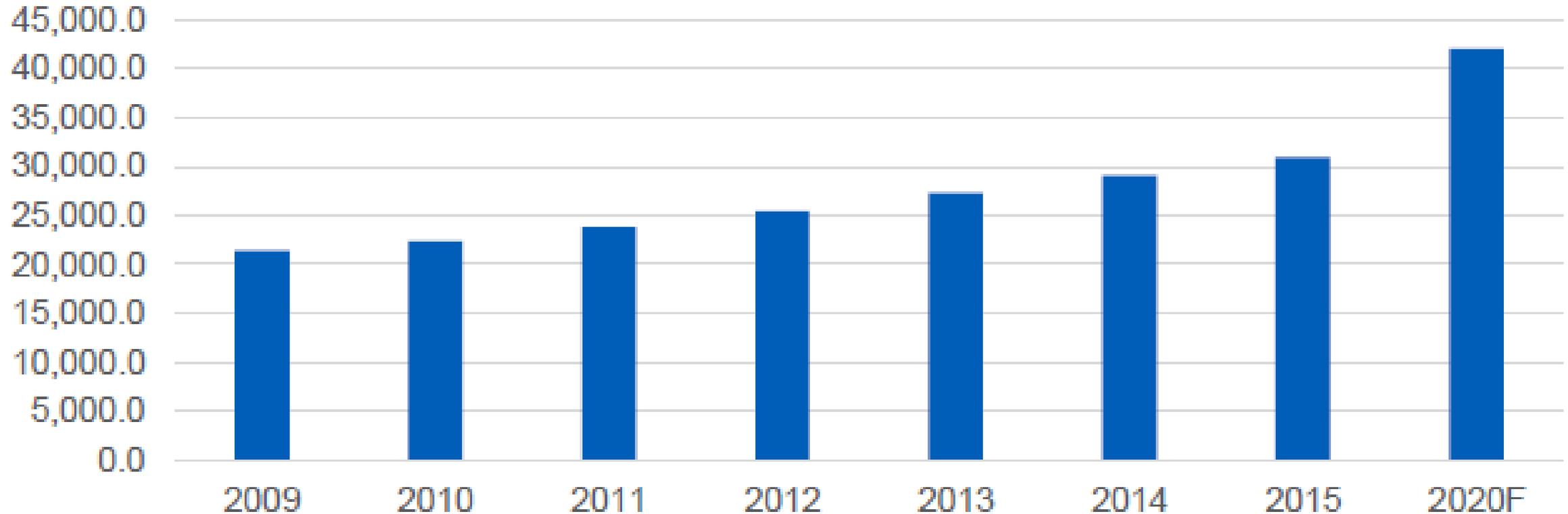
- Memorial Sloan Kettering Cancer Centre in New York (“MSK”) (on-going)
- Melbourne Dental School in collaboration with Peter MacCallum Cancer Centre, Royal Melbourne Hospital, MSK and Australian Centre for Oral Oncology Research and Education (awaiting final ethics approval)
- Australian Centre for Oral Oncology Research and Education (on-going)

Met with US FDA in January 2020 and obtained feedback for proposed 510(k) submission to market in the US

- Preparing documentation and plans for required testing for US regulatory approval

Chinese Dental Market Growth

Total Number of Dental Care Delivery Organisations



Dental Market Size - China

- China: 48 Public Tertiary Dental Hospitals
- Guangdong Province: 158 Stomatology Departments in General Hospitals, 14 Public and Private Dental Hospitals



Leading specialist dental hospitals are:

Name	Location	No. of chairs	Patient volume (outpatient, annually)
Hospital of Stomatology, PKU	Beijing	569	1,453,000
Hospital of Stomatology, Sichuan University	Chengdu, Sichuan Province	350	750,000
Hospital of Stomatology, The 4 th Military Medical University	Xi'an, Shaanxi Province	270	500,000
Hospital of Stomatology, Wuhan University	Wuhan, Hubei Province	450	960,000
Hospital of Stomatology, Jilin University	Changchun, Jilin Province	195	255,550
Guanghua Hospital of Stomatology, Sun Yat-sen University	Guangzhou, Guangdong Province	326	360,000

Name	No. of clinics	Locations	Year established	Service type
Arrail Dental Group 瑞尔口腔	65	Beijing, Tianjin, Shanghai, Hangzhou, Guangzhou, Xiamen, Shenzhen, Chengdu, Chongqing	1999	High-end
Jiamei Dental Group 佳美口腔	30	Beijing, Dalian, Shanghai	1993	Middle to high-end
Bybo Dental Group 拜博口腔	200	Beijing, Shanghai, Guangzhou, Shenzhen, Jiangsu, Shandong, Zhejiang, Henan, Hebei, Liaoning, Sichuan, Hubei, Hunan, Fujian, Anhui, Shaanxi, Jiangxi, Chongqing, Heilongjiang, Jilin, Yunan, Guizhou, Hainan, Zhuhai, Dalian, Dongguan, Wenzhou, Jilin, Luoyang	1993	Middle-end

Breast Cancer - Most Common Cancer in Women

**2.1
Million**

2.1 million new cases of breast cancer predicted in 2018 (globally) ¹

8.5%

8.5% of all new cancer cases in China are breast cancer ²

**2.5
Million**

In 2021, the total number of existing breast cancer patients in China will be 2.5 million ³

- Since the 1990s, the rate of breast cancer in China has accelerated at twice the rate worldwide.
- 20-30% of lumpectomy patients currently require repeat surgery with current practice (histopathology analysis) often taking up to 3-4 days post initial surgery.

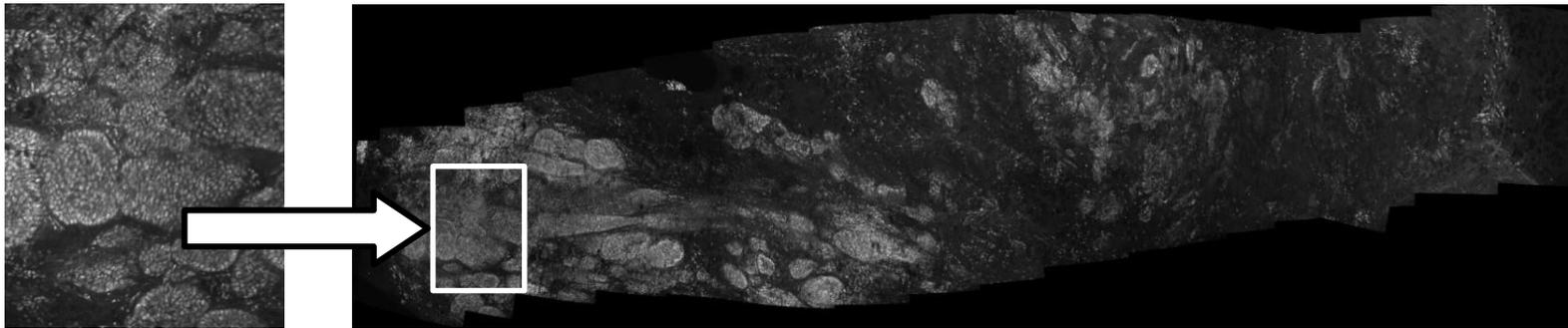
1. Bray et al. (2018). Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: A Cancer Journal for Clinicians*, 68: 394-424. doi:[10.3322/caac.21492](https://doi.org/10.3322/caac.21492)
2. Feng et al. (2019). Current cancer situation in China: good or bad news from the 2018 Global Cancer Statistics?. *Cancer communications (London, England)*, 39(1), 22. <https://doi.org/10.1186/s40880-019-0368-6>
3. Huang et al. (2016). Surgical management of breast cancer in China: A 15-year single-center retrospective study of 18,502 patients. *Medicine*, 95(45), e4201. <https://doi.org/10.1097/MD.0000000000004201>

Optiscan - Breast Cancer Surgery

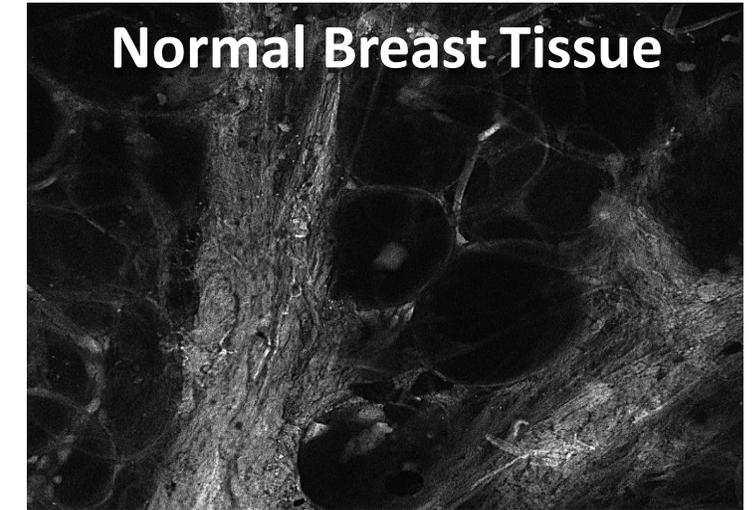
Intraoperative Assessment of Breast Cancer Surgical Margin

- **Goal:** Assist breast surgeons and pathologists to provide real-time cellular assessment of surgical margin.
- **Benefits:** Reduce risk of residual tumour, need for repeat surgery, patient emotional distress, costs for patients, hospitals, insurers and the taxpayer by reducing the number of repeat surgeries

MDPP Workshop in Feb 2020 with 6 Breast Surgeons and a Pathologist from 5 Leading Melbourne Hospitals. Strong interest to arrange Stage 3 of Breast Cancer Trial in Melbourne.



Creation of panoramas: developing a more macro view of the specimen assisting in the CLE and H&E correlation

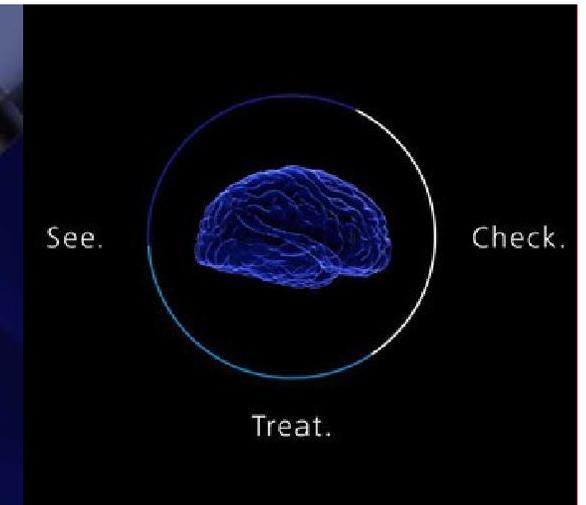
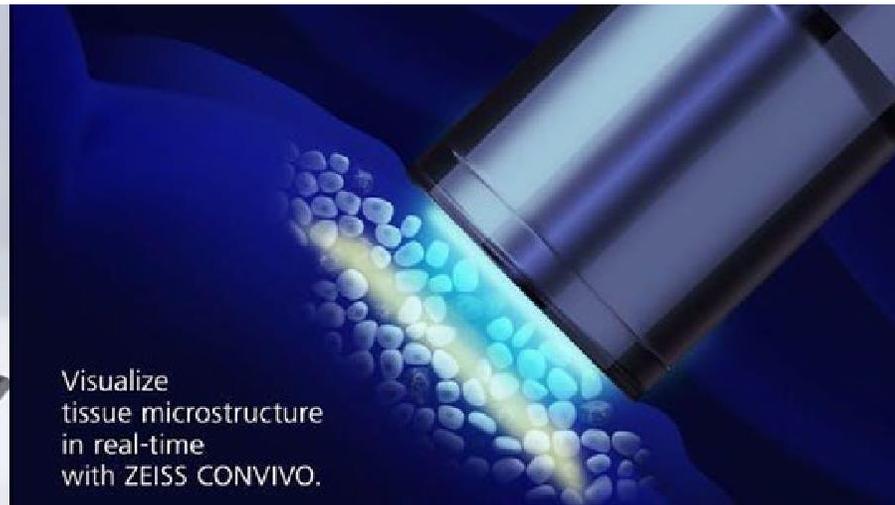


ZEISS CONVIVO® – CARL ZEISS MEDITEC (CZM) CO-OPERATION

297,000
Brain and CNS
cancer cases
p.a.
worldwide

ZEISS CONVIVO®

- Target Application: Tumour margin detection in Brain Cancer surgery
- FDA 510(k) Clearance and CE Mark obtained for CONVIVO®
- Zeiss is an international leader in optics and optoelectronics with a ~€7.7billion market capitalisation



Distributor Strategy for China Pre-Clinical Market

- **New multi-distributor model in China with appointment of exclusive distributor in Southern and Western China.**
 - **South and West China:** Guangzhou Yunxing (Purple and Blue)
 - **East China:** Biotimes Technology Limited (Green)
 - **North China:** To be Advised



Clinical and Research Imaging Platform Technology

