

ASX Small & Mid-Cap
Conference

Mike McCormick, CEO

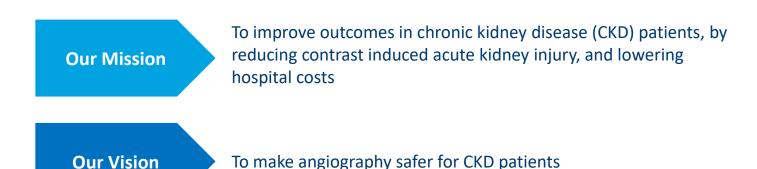
5 September 2019





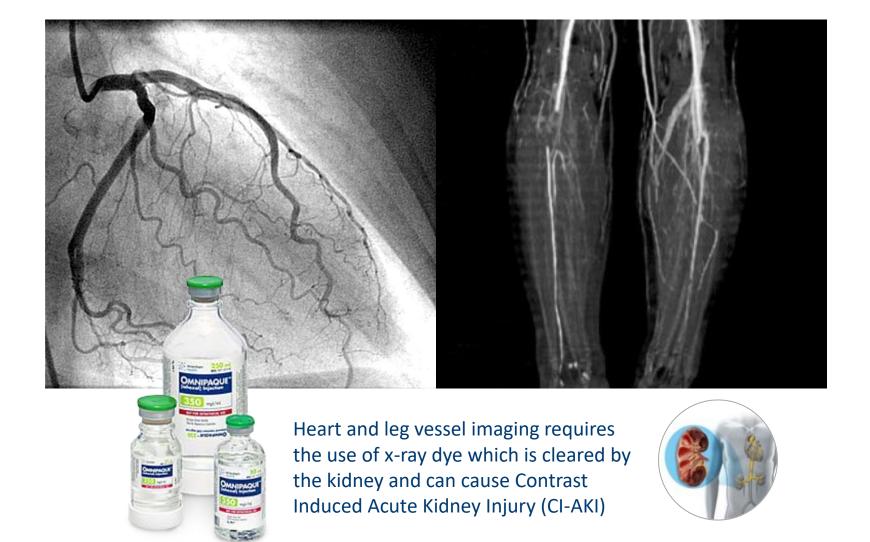
### Company snapshot

- Osprey Medical is focused on transforming the standard of care for chronic kidney disease (CKD) patients
- Valuable and innovative product portfolio with FDA-cleared, TGA-cleared and CE-Marked products
- DyeVert<sup>™</sup> is the only device with an FDA cleared claim for contrast dye reduction without compromised image quality for patients undergoing angiography procedures
- Approx. 30% of all angiography patients are at risk of contrast induced acute kidney injury (CI-AKI), a frequent and dangerous complication for patients and expensive for hospitals to manage
- US\$1.65 billion total addressable market minimal penetration to date



### Problem – Protecting Kidneys From Dye

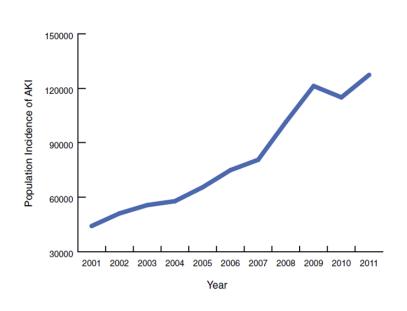


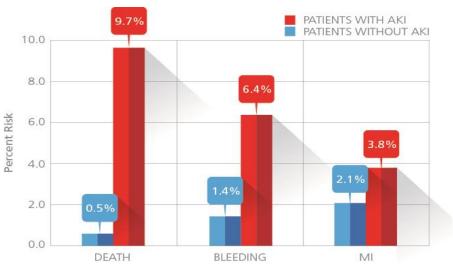


### Patient Impact From CI-AKI



# CI-AKI is a growing problem associated with poor patient outcomes after coronary angiography or intervention





AKI incidence: population incidence of acute kidney injury among cardiac cath. and PCI patients in the United States from 2001 to 2011. AKI indicates acute kidney injury. Brown J et al. *J Am Heart Assoc.* 2016;5:e002739.

Tsai TT, Patel UD, Chang TI et al. Contemporary Incidence, Predictors, and Outcomes of Acute Kidney Injury in Patients Undergoing Percutaneous Coronary Interventions: Insights from the NCDR Cath-PCI Registry. *J Am Coll Cardiol Intv* 2014;7:1-9.

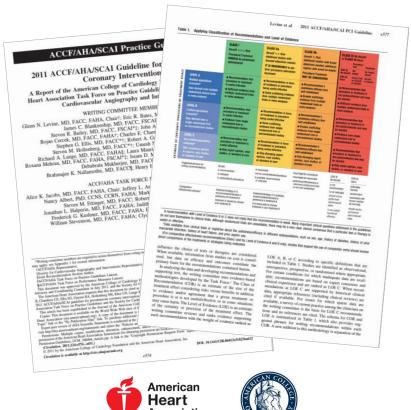
### Physician Consensus Position on CI-AKI



#### Practice guidelines from cardiovascular societies for reduction of CI-AKI<sup>1-3</sup>

#### **Class 1 Level B recommendation** for CI-AKI reduction:

- 1. Patients should be assessed for risk of CI-AKI before PCI
- 2. Patients undergoing cardiac angiography should receive adequate hydration
- 3. In patients with CKD (eGFR <60 mL/min), the volume of contrast media should be monitored in real time and minimized as low as clinically possible







<sup>1</sup> Levine GN, et al. ACCF/AHA/SCAI - Guideline for Percutaneous Coronary Intervention. A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines and the Society for Cardiovascular Angiography and Interventions. Circulation. 2011; 124:e574-e651.

<sup>2</sup> Nallamothu, BK, et al. ACC/AHA/SCAI/AMA-Convened PCPI/NCQA 2013 Performance Measures for Adults Undergoing PCI: A report of the ACC/AHA Task Force on Performance Measures, the SCAI and AMA-Convened Physician Consortium for Performance Improvement, and the National Committee for Quality Assurance. Circulation 2014:129(8):926-949

<sup>3</sup> Naidu, et al. SCAI Expert Consensus Statement: 2016 Best Practices in the Cardiac Cath. Lab. CCI (published on line ahead of print, April 2016. doi:10.1002/ccd.26551.

### Hospital Impact From CI-AKI



Hospital costs increase for patients with CI-AKI as most procedure-related poor outcomes are the responsibility of the hospital

1. Increased length of stay<sup>1</sup>

2. Increased 30-day readmissions<sup>2</sup>

3. Increased bundled payment risk<sup>3</sup>



700 hospitals with 2.8M angiography patients with CKD 2012-2017

<sup>1</sup> Subramanian S, et al. Economic Burden of CIN: Implications for Prevention Strategies. Journal of Medical Economics. 2007;10:119-134.

<sup>1</sup> Pfunter A, et al. Agency for Healthcare Research and Quality Statistical Brief #168. December 2013. https://www.hcup-us.ahrq.gov/reports/statbriefs/sb168-Hospital-Costs-United-States-2011.pdf

<sup>2</sup> Center of Medicare and Medicaid Services Website: <a href="http://www.cms.gov/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/Readmissions-ReductionpProgram.html">http://www.cms.gov/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/Readmissions-ReductionpProgram.html</a>

<sup>2</sup> American Hospital Association Factsheet: Hospital Readmission Reduction Program. April 14, 2014. http://www.aha.org/content/13/fs-readmissions.pdf

<sup>3</sup> American College of Cardiology CMS Releases Proposed 2018 Medicare QPP Rule http://www.acc.org/latest-in-cardiology/articles/2017/06/20/17/40/cms-releases-proposed-2018-medicare-qpp-rule

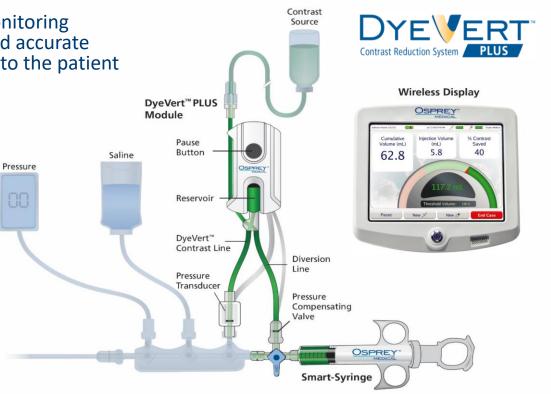
### Osprey's Therapy Solution



#### Osprey's technologies are the only FDA cleared product clinically proven to:

- 1. Reduce dye in angiographic procedures
- 2. No compromise to image quality
- 3. Allow for real-time contrast monitoring of maximum allowable dose and accurate measure of total contrast dose to the patient

Over 40% average dye reduction<sup>1</sup>

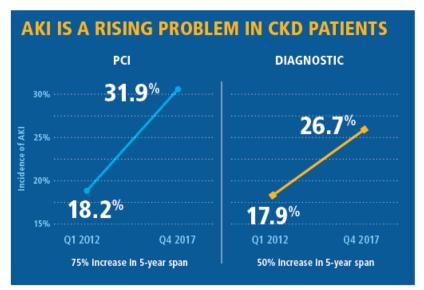


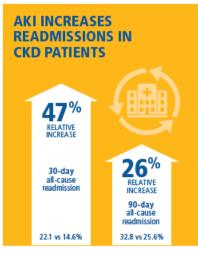


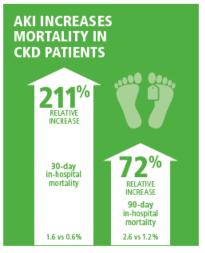
### **Burden of Illness Project**

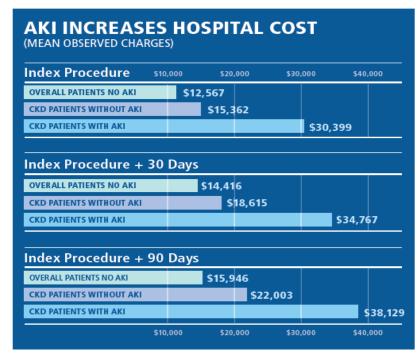


#### 700 hospitals with 2.8M angiography patients with CKD 2012-2017











### Osprey's cost neutrality rebate



Osprey's "Be Kind to Kidneys" program rebates DyeVert Plus product costs to the extent these are not offset by savings related to CI-AKI reduction

Cost of AKI to Hospital <sup>1,2</sup>		
Number of Annual Diagnostic and PCI Procedures	6,376	
Risk Adjusted-AKI Rate per the NCDR Cath PCI Registry	15%	
Estimated Number of At-Risk Patients Developing AKI Annually	956	
Cost per AKI Patient – Additional Length of Stay <sup>1,2</sup>	\$12,000	
Total Annual Cost of AKI to Hospital	\$11,472,000	
Device Cost to Hospital		
Number of Annual PCI's	6,376	Clear valu
DyeVert Plus (25% of Patients)	1,594	proposition
DyeVert Plus Price	\$350	
Total Annual Device Cost to Hospital	\$557,900	

<sup>1</sup> Subramanian, Jour Med Economics; 2007; 10:119-134.

<sup>2</sup> Pfunter A, et al. Agency for Healthcare Research and Quality Statistical Brief #168. December 2013. https://www.hcup-us.ahrq.gov/reports/statbriefs/sb168-Hospital-Costs-United-States-2011.pdf.

#### **AKI** reduction initiatives



#### Real-World AKI Prevention Strategies that Work

St. Mary's Medical Center Huntington, WV

Presented at West Virginia ACC 2018 Annual Conference

25%
AKI Reduction\*
\*Compared to non-DyeVert group





Houston Methodist Sugarland Hospital

Sugarland, TX

Presented at ACC NCDR 2018 Annual Meeting







**University Health System** 

San Antonio, TX

Presented at ACC Quality Summit 2019 Annual Meeting







Metropolitan Methodist Hospital

San Antonio, TX

Presented at ACC Quality Summit 2019 Annual Meetin







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## Successful commercial adoption



1

#### DyeVert unit sales growth

**63%** unit sales growth in Q2 2019 compared to Q2 2018

### 2

#### Total hospitals purchasing

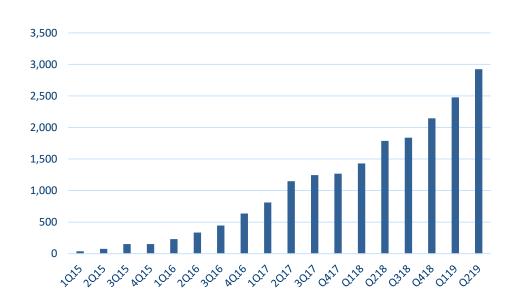
**19%** increase in new hospitals purchasing year over year

### 3

#### Revenue growth

**53%** revenue growth in Q2 2019 compared to Q2 2018

#### **Quarterly DyeVert sales since inception (# units)**



Penetration <5% of total addressable market

## Osprey's market opportunity



DyeVert Plus market opportunity of 3.2m procedures per year in the USA and Western EU

CKD: 1.3 million procedures per year

- Diabetes: 1.0 million procedures per year

STEMI: 440K procedures per year

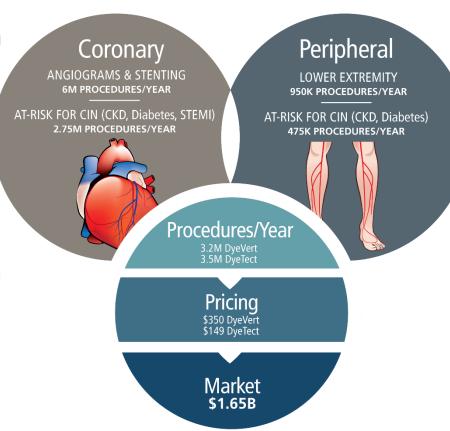
Peripheral: 450K procedures per year

DyeTect market opportunity of 3.5m procedures per year in the USA and Western EU

Coronary: 3.1 million procedures per year

Peripheral: 476K procedures per year

Average selling price of DyeVert is US\$350

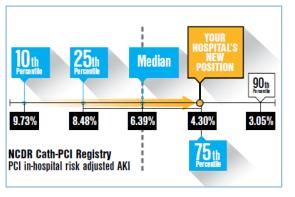


**Total market opportunity \$1.65Bn** 

### Go to market strategy

















The only Robert cleared product for contrast reduction

In the US market, Osprey has 16 sales representatives + 8 clinical specialists driving adoption In the EU, Osprey uses a distribution model

### Osprey achieved 50% market coverage of GPOs





#### What is driving Osprey's GPO success?

High "burden of illness" of AKI

GPOs understand the significant prevalence and cost of AKI for their member hospitals

Measurable results

NDCR database measures AKI as a key quality indicator in reports, enabling GPOs to track improvements over time

Effective physician engagement

Joint physician society guidelines stress importance of dye minimisation – DyeVert is only FDA cleared product to do this

Single department metric Reduction of AKI is single hospital department focus, making it easier to achieve quality improvement

**Execution evident:** 2Q FY19 GPO-based unit sales growth of 162% versus pcp to 1,741 units; 67% of US DyeVert sales mix (39% in pcp)

### Company overview



#### **Public Market Overview**

Share price (26-Aug-19)	A\$0.061
52 week low / high	A\$0.061 / A\$0.255
Number of shares (m)	431.8
Manhat annitalination	1000
Market capitalisation	A\$26.3m
Cash (30-Jun-19) <sup>1</sup>	US\$16.3m / A\$23.3m
·	·

Note: Assumes AUD: USD exchange rate of 0.70

#### **Shareholder Overview**

Shareholder	CDIs	%
Brandon Capital Partners	116.3m	26.9%
Allan Gray	75.0m	17.4%
CM Capital	34.0m	7.9%
Kinetic	23.8m	5.5%

#### **Share Price Performance (12 months)**



Source: IRESS; market data as at August 2019
Notes. (1) Assumes AUD:USD exchange rate of A\$:US\$0.70





About one in three angiography patients are at risk for contrast-induced acute kidney injury (AKI) due to chronic kidney disease (CKD) and comorbidities. For these patients, the dye used for visualization during procedures can be toxic, leading to serious complications. But you can make angiography safer for CKD patients by following clinical society guidelines.1



Screen



**Hydrate** 

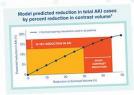
Adequate preparatory hydration should be given to at-risk patients.



Reduce

The DyeVert\*\* Plus contrast reduction system allows you to reduce dye volume and monitor usage real-time without compromising image quality. The only FDA-cleared technology for dye volume reduction, the DyeVert system is an effective tool in following clinical society guidelines. To learn more visit www.ospreymed.com/bekindtokidneys.







1 Levine GN, et al. Circulation. 2011; 124:e574-e651 2 Adapted graphic from the National Kidney Foundar 3 Gurm, et al, IIC 2016 Col. 28, Epub Jan. 15



#### HANDLE WITH CARE

About one in four of your cath lab patients have Chronic Kidney Disease (CKD) or other risk factors, for developing Acute Kidney Injury (AKI). What are you doing to reduce the risk of AKI for them? American College of Cardiology Guidelines are clear: Screen for risk. Introduce hydration. And reduce dye dosage.1

The DyeVert™ Plus Contrast Reduction System can help. It's the only FDA-indicated technology for contrast volume reduction. And it doesn't compromise image quality. So remember: Fix the heart. But don't forget the kidneys. Your high-risk patients' health depends on it.

To learn more visit www.ospreymed.com/technology





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DyeVert™, DyeVert Plus and DyeTect Systems Regulatory Status: Europe – CE Mark obtained; Australia – TGA approval obtained; United States – 510(k) cleared.