VCOR
VICTORIAN CARDIAC OUTCOMES REGISTRY

Newsletter *(vertical sidebar)*
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September 2017   **Issue #15**

Project News & Progress Updates

Welcome to the latest VCOR update. It is very exciting to present to you the VCOR 2016 Public Annual Report. The report was endorsed by the Chief Executive of Safer Care Victoria, Department of Health & Human Services (DHHS), Prof Euan Wallace. We feature some of the key data presented in the report on page 2 of this newsletter.

Another exciting announcement is the upcoming launch of our newest data collection module: Cardiac Implantable Electronic Devices (CIED). The new module will collect patient, procedure and device information for patients undergoing implantation, revision or removal of implantable cardiac defibrillators (ICDs) and cardiac resynchronization therapy (CRT). This new CIED module will launch at 5 participating centres in late October and will hopefully roll-out to many more centres throughout 2018.

Other registry activity has been busy and productive as always. With more than 38,000 PCI cases entered into the registry, the PCI module also boasts 100% site engagement Victoria-wide. In August, Melbourne's newest PCI-enabled cardiac catheter lab at Holmesglen Private Hospital commenced data collection. We expect that all of our engaged centres will be actively contributing data before the end of 2017.

The Early Management of STEMI in Regional Victoria has recently achieved a milestone of 500 cases across 10 participating centres. The VCOR STEMI team have also been travelling to participating centres, presenting data, feedback and site-specific information related to VCOR and data linkages with Ambulance Victoria initiatives. We look forward to scheduling more Regional STEMI Roadshows in early 2018.

The 2017 Heart Failure Snapshot is winding up for the year, with more than 500 cases collected across the sixteen participating hospitals. Site reports will be collated and distributed once follow-ups have been completed in late October.

Other data linkage projects continue to gain traction with the Australian Institute of Health & Welfare's National Death Index and the DHHS' Victorian Admitted Episodes Database. With a specific focus on research projects this year, many data linkage and collaborative research activities are underway, and we expect to produce a range of VCOR publications and presentations in 2018.

To enquire about using VCOR data for collaborative research projects, please refer to our Data Access webpage or email vcor@monash.edu.
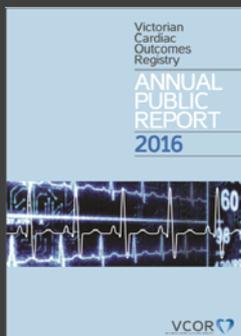

2016 VCOR Annual Report

The report is available for download here.

Content includes:

- **9992** PCI cases
- **148** STEMI patients
- **456** HF-SNAPSHOT admissions

See page 2 overleaf for a summary of key findings in the report.

Conference Presentations & Poster

- **CSANZ Annual Scientific Meeting 2017**
- **European Society of Cardiology Congress 2017**
- **World Congress Public Health 2017**

Publications

- **Heart Lung Circulation**
- **European Heart Journal**

Data Submission Deadline: Q3 2017

Please ensure all baseline & follow-up data is complete by
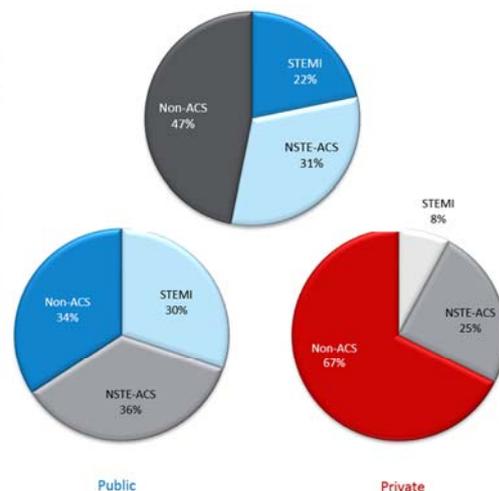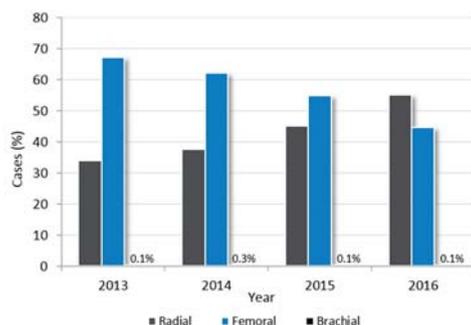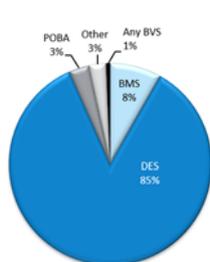**30 November 2017**

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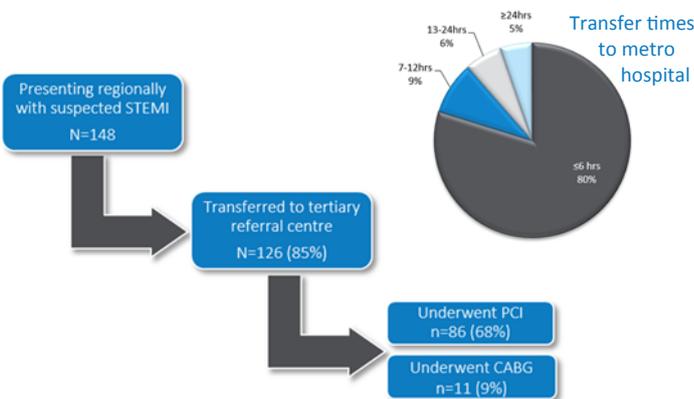## 2016 Annual Report Highlights!

PCI Key findings

Patient characteristics	2013 (N=4809)	2014 (N=8327)	2015 (N=9225)	2016 (N=9992)
Age - years (M ±SD)	65.8 (±12.0)	65.3 (±11.9)	65.6 (±12.0)	66.0 (±12.0)
	%	%	%	%
Gender - female	22.9	23.1	23.0	23.4
Diabetes	22.4	21.6	23.0	21.7
PVD History	3.5	3.8	3.6	3.5
CVD History	3.8	3.7	4.0	3.3
Previous PCI	34.8	31.9	32.9	32.7
Previous CABG	8.9	8.4	7.6	7.6

Public | Private

Door-to-balloon Time	Primary PCI* (all cases) (N=1303)	Primary PCI* (PHN only†) (n=717)	Primary PCI* (no-PHN†) (n=586)
Median – mins (IQR)	67 (47, 96)	55 (40, 76)	87 (61, 114)
Proportion of cases ≤90mins (%)	71.9%	86.3%	54.3%

*Primary PCI for STEMI presentations excluding all inter-hospital transfer arrivals
†Pre-hospital notification (PHN)

STEMI Key findings

Symptom onset to ambulance call
Median = 90mins (IQR 21, 263)

Ambulance call receive to Ambulance arrival
Median = 12mins (IQR 10, 24)

Ambulance arrival to hospital arrival
Median = 52 mins (IQR: 36, 71)

Presenting regionally with suspected STEMI N=148

Transferred to tertiary referral centre N=126 (85%)

Underwent PCI n=86 (68%)

Underwent CABG n=11 (9%)

Transfer times to metro hospital

HF-Snapshot Key findings

Patient characteristics	2015 cohort (N=289)	2016 cohort (N=456)
Age – years (Mean ±SD)	77 ±13	76 ± 14
	%	%
Gender – female	42.9	41.9
Cardiovascular Medical History	%	%
Treated diabetes	39.1	46.5
Cerebrovascular disease	15.6	19.7
History of angina	41.2	33.8
History of MI	28.7	30
History of heart failure	65.7	78.9
Arrhythmia	54.3	54.3
History of PCI or CABG	30.1	31.1
CIED therapy	22.1	23

"Data Management Hints 'n' Tips"!

Capturing Patient Details:

Given the vast number of data linkage projects underway and the probabilistic matching required to link external records with VCOR, it is extremely important to ensure that Patient Details are captured accurately. This includes name, date of birth, Medicare number, postcode, etc. The following items are of special importance:

♦ **Medicare number**—please ensure that an accurate Medicare number is attached to the VCOR record.

♦ **Patient Name** MUST MATCH the Health Record (e.g. legal name, as it would appear with the Department of Health, or Births Deaths, Marriages, etc. **Tip!** Don't use "preferred" name(s) or *Anglicised* name(s) - **Tip!** Use local Patient Management Systems to verify correct patient data.

♦ Include **patient middle name(s)**, where appropriate.

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VCOR Newsletter (sidebar)

VCOR Data Manager Feedback Meeting—July 2017

On 20 July 2017, it was an absolute pleasure to have so many VCOR Data Managers in attendance at the recent feedback session! More than 16 PCI hospitals were represented in a group of 20+ Data Managers from around metropolitan and regional Victoria. It's always a great opportunity for Data Managers to catch up, share trade-secrets and learn more about data entry, management and clinical operations at other health services. For us at VCOR HQ, it's a great opportunity to receive feedback from the group, update everyone on general VCOR matters, share information and show our gratitude to the wider VCOR 'family' who make VCOR's successes possible!

Special Data Manager Presentation

This year we had a special presentation from University Hospital, Geelong about some local initiatives that had been implemented as a direct result of last year's meeting, where the Data Manager group discussed the findings from VCOR's 2016 "Deep Dive" Report. The report had explored variance in treatment times for PCI for acute STEMI patients (refer to Newsletter Issue #12). At the 2016 Data Manager meeting, one high-performing centre presented the local administrative, operational and clinical processes in place thought to contribute to their STEMI management process times. This inspired one Cath Lab CNS to explore their own data and implement several new initiatives locally. These included increased communication between ED, cardiology, MICA and ICU units and a range of simple, yet effective initiatives that have improved performance, cross-departmental communication and patient care. It was absolutely wonderful to have this example shared with the data management group and to see the registry function so successfully!

This is a classic example of what registries can do: Data reporting and collaborative information dissemination that inspires and motivates change and quality improvement . We look forward to more updates from other centres in future!

2017 PCI Data Queries

To be sent late September/early October!

FAREWELL

After working with VCOR since 2011, Rita is moving on from her Research Officer role. We wish her all the best with future endeavours.

A new team member will be recruited soon, but until then it's "business as usual" at VCOR HQ! You can continue to direct enquiries to Harriet, Janine, Diem or Angela in the interim.

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Victorian Cardiac Clinical Network