ANZACS-QI registry
Where to next?

A discussion with the tripartite partners MoH, NIHI and Enigma Solutions
Collaborative enterprise

NZ Cardiac Network
NZ Cardiac Society
NZ Interventional Group
Heart Foundation
NIHI
VIEW
Enigma Solutions
Ministry of Health
### Timeline

<table>
<thead>
<tr>
<th>Early 2000s</th>
<th>PREDICT primary care (Enigma and U of A)</th>
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<tbody>
<tr>
<td>2004</td>
<td>HRC - PREDICT then VIEW programme (U of A and Enigma)</td>
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<td></td>
<td>Ethics</td>
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<td>Governance</td>
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<td></td>
<td>NHI Encryption</td>
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<td>2007</td>
<td>Software development</td>
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<td>National dataset linkage</td>
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<td>2008</td>
<td>Acute PREDICT</td>
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<td>2011</td>
<td>Acute PREDICT Cath PCI – CMDHB</td>
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<td>2012</td>
<td>Acute PREDICT ACS and Cath PCI – CMDHB, Midlands, ADHB, WDHB</td>
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<td>Mid 2013</td>
<td>National cardiac network recommend national cardiac registry</td>
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<td>National cardiac registry funded May 2012</td>
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<td>NIHI/Enigma awarded contract Dec 2012</td>
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<td>Acute PREDICT rebranded ANZACS-QI</td>
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<td>Mid 2014</td>
<td>National ANZACS-QI implementation begins</td>
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<td>National ANZACS-QI implementation complete</td>
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Cardiology patients

MOH/Hospital IT systems demographics, labs

National Cardiac registries – all hospitals, web-based
ACS/CathPCI/CVD risk/Device/card rehab/CHF/CT-MRI

National data sets
Mortality, hospitalisation, pharms, surgical registry…

Local reports and audit

Hosp 1
Hosp 2
Hosp n

NHI encryption (ANZACS-QI and VIEW governance. National ethics approval.)

ANZACS-QI registry data reports

ANZACS-QI patient outcomes/dispensing

National cardiac stats

Quality Improvement
ANZACS-QI clinical registry studies

ANZACS-QI
Governance Group
MoH funding
40 hospitals in NZ

Patients admitted with ACS
ANZACS-QI Data
Baseline

ANZACS-QI Data
Clinical outcomes
Medications
Laboratory results

Quality Improvement

ANZACS-Clinical Registry Studies

Research study #1 Consent
Randomisation module if required
Research module for additional baseline data
+/- Stored blood samples

Data extracted for reporting research studies according to individual study protocols

Results linkage to QI/Research datasets

Draft only
Achievements to date

- 45 sites deployed with the 46th (and final) due 3 October
- 4 sites audited; all remaining public sites with a cath lab will be audited in 2014, and all 46 sites will be audited twice between 2015-16
- Regional coordinators and hospital liaison officers identified
- Monthly and quarterly KPI reporting established
Current focus

- Working on improving KPI reporting – targeting data to the recipient’s needs
- Producing reporting which integrates ANZACS-QI with other national datasets
- Quality improvement; data and clinical
- Establishing data warehouse/data modelling
- Clinical research
Door To Cath 3-Day Graphs by Region

**NORTHERN**

- Number of angiograms for ACS
- Percentage of patients <=3 days

**MIDLANDS**

- Number of angiograms for ACS
- Percentage of patients <=3 days

**CENTRAL**

- Number of angiograms for ACS
- Percentage of patients <=3 days

**SOUTHERN**

- Number of angiograms for ACS
- Percentage of patients <=3 days
Door To Cath 3-Day by DHB - Midlands Region Graphs

**BOP**
- # angio
- % <= 3days

**LAKES**
- # angio
- % <= 3days

**TAIRAWHITI**
- # angio
- % <= 3days

**TARANAKI**
- # angio
- % <= 3days

**WAIKATO**
- # angio
- % <= 3days
LOS for ACS having coronary angiography 2014
Survival free from recurrent MI/Death after ACS according to presence of heart failure at admission (n = 3743)

Survival Probability (%) of Death/MI Events

Follow-up time (years)

Death/MI

Log-rank P-value < .0001
How long do acute coronary syndrome patients wait for reperfusion, diagnostic coronary angiography and surgical revascularisation? *NZMJ*. 2013

Risk stratification and timing of coronary angiography in acute coronary syndromes: are we targeting the right patients in a timely manner? (ANZACS-QI 1). *New Zealand Medical Journal*. 2013; 126:69-80.

Maintenance of statin use over 3 years following acute coronary syndromes: a national data linkage study (ANZACS-QI-2). *Heart*. 2014.


So where to next?
Beyond December 2016, how will ANZACS-QI be supported?
Modules

- Heart failure
- Cardiac rehab
- Device
- CC MRI
- Chest pain pathway
- Other disciplines e.g. stroke, other vascular, cancer etc
System integration

- Laboratory results data
Cardiac surgical registry

- Link cardiac surgical data with ANZACS-QI and other national data sets
Other opportunities

- Standards based information exchange
e.g. discharge summary data
  Enables integration into clinical pathways

- Moving into primary care
Discussion

- Priorities
- Actions
- Ownership
- Timings