SCANZ3 Audit results

Belinda Buckley
on behalf of the SCANZ3 Steering Group

Acknowledgements

- Steering group members Dr Alex Sasse and Dr Gillian Whalley and Dr Van Pelt as the CSANZ Imaging group representative
- Dr Christien Fortune who performed the audit data entry

- DHB site coordinators:

  Michael Mooten        Helen Walsh        Renelle French        Fiona Lean
  Margaret Oldfield     Jackie Toy         Leigh Lamont          Mark Reyes
  Neil Silverwood       Jenny Hardiman     Tom Mortemore         Laura Davidson
  Angela Morgan         Timothy Hii         Angela Geary           Catherine Goggin
  Steve White           Laura Perston      David Yeoman           Kerren Glasson
SCANZ 3

- **Method:**
  - Snapshot audit and survey
  - DHBs only
  - 1 week in Dec 2015 – same week as 2005 and 2010
  - Retrospective – data collected in Feb/March 2016

- **Aims:**
  - Regional disparity in echocardiogram provision
  - Workforce size and demographics - sonographers and Cardiologists
  - Additional resources - machines, rooms, clerical, patient transport
  - Proportion of normal scans
  - Audit data - comparison to 2005 data

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**Audit results**

- Scan demographics: volume, distribution, IP/OP
- Patient demographics: age, gender
- Reporting practices: provider, physician reporting
- Wait times: referral to scan, scan to report
- Scan measurements: LV size, LV function
Scan demographics

- 20 DHB’s and 32 sites

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2015</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan volume</td>
<td>1180</td>
<td>1930</td>
<td>38% ↑</td>
</tr>
<tr>
<td>TTE</td>
<td>94%</td>
<td>92%</td>
<td>2% ↓</td>
</tr>
<tr>
<td>Stress</td>
<td>5.2%</td>
<td>3.2%</td>
<td>2% ↑</td>
</tr>
<tr>
<td>OP</td>
<td>46%</td>
<td>61%</td>
<td>??</td>
</tr>
</tbody>
</table>

- 25% of hospitals perform routine Saturday clinics

Patient demographics

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>56%</td>
<td>55%</td>
</tr>
<tr>
<td>Median age</td>
<td>62</td>
<td>64</td>
</tr>
<tr>
<td>&gt;18 years</td>
<td>83%</td>
<td>87%</td>
</tr>
<tr>
<td>Largest age group</td>
<td>60-69</td>
<td>70-79</td>
</tr>
</tbody>
</table>
Reporting practices

- 92% sonographer scans
- 76% scans physician reported
- Variation similar pattern to 2005

Proportion of DHB's with % of echoes reported by a physician

Wait times

Patient echocardiogram journey

Referral received
Referral to scan
Scan performed
Scan to final report
Scan report
Referral to scan duration

Patient echocardiogram journey

- Excluded:
  - 5 DHB’s (29% of total scan volume)
  - Planned
  - Inpatients
- Total sample of 412
- Average 65.9 days
- Median 39.5 days

Volume of scans per 30 day wait duration

Wait to scan in 30 day groups
Patient echocardiogram journey

- Referral received
- Scan performed
- Scan report
- Referral to scan
- Scan to final report

Scan to final report duration

- Excluded:
  - non-physician reported studies
  - 3 DHB’s
  - Inpatients
- Total sample of 877
- Average 9.1 days
- Median 0 days

Volume of scans per wait duration

Wait duration in days
Limitations to wait time data

- Sample volume
- Scan type

Reported LV size and systolic function

- LV systolic function
- LV size
Reported LV diastolic function

Future analysis

- Clinical indications
- Clinical findings
- Proportion of normal scans
- Referral to scan duration – scan specific
- Reporting duration – relationship to physician workforce size and DHB population
- Workforce to DHB population relationship
Thank you