Outpatient Telehealth Cardiology Clinics – a new initiative?

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Welcome to the West Coast

- Population: 33,000 – the population of Ashburton
- Distance Karamea to Haast roughly the same as Auckland to Wellington
- We have the most dispersed population in the country - geographical area of 23,276km²
Reducing the need for long journeys

Telehealth WHO definition:

“The delivery of health care services where distance is a critical factor, by all health professionals using information and communication technologies... involves the secure transmission of medical data and information through text, sound images or other forms needed for the prevention of, diagnosis, treatment and follow-up of a patient.”
THE WCDHB TH Cardiology Model

- Secure VC
- 2 sites
- Pt criteria – New and Follow up
- Cardiac CNS role
- Cost

A Brave New World

Patient travel and Telehealth (TH) opportunities
December 2016 (return trip)

<table>
<thead>
<tr>
<th>Specialty</th>
<th>% seen by Telehealth</th>
<th>Return Distance Travelled by Patients (Kms)</th>
<th>How many patients travel &gt;60mins?</th>
<th>Total fuel cost to patients based on NTA reimbursement of 28c / km</th>
<th>Total distance travelled by all patients / km</th>
<th>How many patients travel &gt;60mins?</th>
<th># follow up appointments</th>
<th># follow up appointments by telehealth</th>
<th>Travel distance saved because patient appointment via VC</th>
<th>Travel time saved because patient appointment via VC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaesth/Oncology</td>
<td>4.5%</td>
<td>1,469</td>
<td>411</td>
<td>10</td>
<td>92,631</td>
<td>565</td>
<td>1,105</td>
<td>4.1%</td>
<td>1,322</td>
<td>940</td>
</tr>
<tr>
<td>Audiology</td>
<td>0.0%</td>
<td>371</td>
<td>104</td>
<td>1</td>
<td>565</td>
<td>1</td>
<td>3</td>
<td>0.0%</td>
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<td>3</td>
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<td>Cardiology</td>
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<td>2,659</td>
<td>745</td>
<td>20</td>
<td>92,631</td>
<td>565</td>
<td>1,105</td>
<td>4.1%</td>
<td>1,322</td>
<td>940</td>
</tr>
<tr>
<td>Diabetology</td>
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<td>1,688</td>
<td>473</td>
<td>9</td>
<td>565</td>
<td>1</td>
<td>3</td>
<td>0.0%</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Echocardiograph</td>
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<td>2,173</td>
<td>608</td>
<td>13</td>
<td>565</td>
<td>1</td>
<td>3</td>
<td>0.0%</td>
<td>1</td>
<td>3</td>
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<tr>
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<td>4,018</td>
<td>1,151</td>
<td>26</td>
<td>92,631</td>
<td>565</td>
<td>1,105</td>
<td>4.1%</td>
<td>1,322</td>
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<tr>
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<td>83</td>
<td>92,631</td>
<td>565</td>
<td>1,105</td>
<td>4.1%</td>
<td>1,322</td>
<td>940</td>
</tr>
</tbody>
</table>
Measuring telehealth activity

Making a positive difference

- Connecting patients with services;
- Valuing patients;
- Quantifying patient travel costs;
- Quantifying patient travel time;
- Staff satisfaction
- Have you tried it yet?
Use nationally & Internationally in Cardiology

- ? New in NZ in this format – TH used in other specialties – 1 NZ study.
- International use - Lit rev – Cochrane 2015 results 36/93 studies cardiovascular – 38 studies VC (2 cardiac), 55 – remote monitoring

Next steps

- Analysing patient outcomes;
- Analysing access to services;
- Assessing patient satisfaction;
  - Quantifying savings made in patient costs;
  - Quantifying savings made in patient time.
References


Questions?