Quotidian Haemodialysis: A Snapshot

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Quotidian Haemodialysis

• Definition
• Location: Hospital vs Satellite vs Home
• Who
• How
• Where: State/Unit level practice
Quotidian Haemodialysis

• The term “quotidian” denotes an event that recurs daily.

• In hemodialysis traditionally refers to daily, or “frequent” hemodialysis treatments.

• There has been a increase in the interest in “alternative” or “funky” hemodialysis treatment.
Quotidian Haemodialysis

<table>
<thead>
<tr>
<th>TREATMENT CODES</th>
<th>ANZDATA:</th>
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<tbody>
<tr>
<td>A APD / IPD Hospital</td>
<td>- Records type of haemodialysis</td>
</tr>
<tr>
<td>C APD / IPD Satellite</td>
<td>- Records date of commencement and change for conventional &amp; quotidain haemodialysis</td>
</tr>
<tr>
<td>E APD / IPD Home</td>
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<tr>
<td>L CAPD Hosp/Outpatient</td>
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<tr>
<td>M CAPD Home</td>
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<tr>
<td>BC HD Hospital-conventional</td>
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<tr>
<td>DC HD Satellite-conventional</td>
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<tr>
<td>FC HD Home-conventional</td>
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<tr>
<td>BQ HD Hospital-Quotidian</td>
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<tr>
<td>DQ HD Satellite-Quotidian</td>
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<tr>
<td>FQ HD Home-Quotidian</td>
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Quotidian Haemodialysis

• Quotidian Haemodialysis Definition:
  – More than 3 sessions per week
  – And/or a treatment duration of 5.5 hours or more per session

• Conforms with the International Quotidian Dialysis Registry definition
Home Haemodialysis

Haemodialysis Location by Year
NZ 2004-2011

Haemodialysis Location
- Home
- Satellite
- Hospital
Quotidian Haemodialysis

Quotidian Haemodialysis Location
Australia & NZ 31 Dec 2011

Dialysis Location
- Green: Home
- Red: Hospital
- Blue: Satellite
Quotidian Haemodialysis

Numbers on Quotidian Haemodialysis by State
Australia & NZ 31 Dec 2011

Number of Patients

<table>
<thead>
<tr>
<th>State</th>
<th>Patients</th>
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<tbody>
<tr>
<td>NSW</td>
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<tr>
<td>VIC</td>
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<td>QLD</td>
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<td>ACT</td>
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<tr>
<td>NZ</td>
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</tbody>
</table>
Quotidian Haemodialysis

Quotidian Haemodialysis by Gender
Australia & NZ 31 Dec 2011

<table>
<thead>
<tr>
<th>Gender</th>
<th>Conv Sat</th>
<th>Conv Hosp</th>
<th>Conv Home</th>
<th>Quot Sat</th>
<th>Quot Hosp</th>
<th>Quot Home</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
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<tr>
<td>Female</td>
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</table>
Quotidian Haemodialysis

Age at Survey by Haemodialysis Type

Australia & NZ 31 Dec 2011

Age at Survey (years)

Hospital Conventional

Satellite

Home

Hospital Quotidian

Satellite

Home
Quotidian Haemodialysis

Quotidian Haemodialysis Definition by Country
Australia & NZ 31 Dec 2011

Percent

Conv Sat Conv Hosp Conv Home Quot Sat Quot Hosp Quot Home

Quotidian Definition
- No DM
- Type II DM
- Type I DM
Quotidian Haemodialysis

Dry Weight by Haemodialysis Type
Australia & NZ 31 Dec 2011

Weight at Survey (years)

Hospital
Satellite
Home
Hospital
Satellite
Home

Conventional
Quotidian
Quotidian Haemodialysis

Australia

Quotidian Definition
- Freq >3 & Session Hrs<5.5
- Freq 3 or less & Session>=5.5

New Zealand

- Freq >3 & Session >=5.5
Quotidian Haemodialysis

Quotidian Haemodialysis Definition by Country
Australia & NZ 31 Dec 2011

Quotidian Definition
- Green: Freq >3 & Session Hrs<5.5
- Red: Freq >3 & Session >=5.5
- Blue: Freq 3 or less & Session>=5.5
Quotidian Haemodialysis Definition by State
Australia 31 Dec 2011

Quotidian Definition
- Green: Freq >3 & Session Hrs<5.5
- Red: Freq >3 & Session >=5.5
- Blue: Freq 3 or less & Session>=5.5
Proportion of Hospital HD patients on Quotidian Dialysis

Australia 31 Dec 2011
Quotidian Haemodialysis

Proportion of Satellite HD Patients on Quotidian Dialysis

Australia 31 Dec 2011
Quotidian Haemodialysis

Proportion of Home HD Patients on Quotidian Dialysis
Australia 31 Dec 2011
Quotidian Haemodialysis

Quotidian Haemodialysis Definition by Hospital
New Zealand 31 Dec 2011

Quotidian Definition
- Green: Freq >3 & Session Hrs<5.5
- Red: Freq >3 & Session >=5.5
- Blue: Freq 3 or less & Session>=5.5
Quotidian Haemodialysis

Proportion of Hospital HD Patients on Quotidian Dialysis
New Zealand 31 Dec 2011
Quotidian Haemodialysis

Proportion of Satellite HD Patients on Quotidian Dialysis
New Zealand 31 Dec 2011
Proportion of home HD patients on quotidian dialysis
New Zealand 31 Dec 2011
Quotidian Haemodialysis

Crude Haemodialysis Mortality Rates
Australia and New Zealand 2011

Mortality Rate (per 100 patient-years)
Summary

- Quotidian Hdx largely performed at home
- Even split between increased frequency, hours & combination
- Big variations in practice across Australia & New Zealand
- Further analysis will come with longer follow-up
Quotidian Haemodialysis

Quotidian Haemodialysis Definition
Australia & NZ 31 Dec 2011

Quotidian Definition
- Green: Freq >3 & Session Hrs<5.5
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Quotidian Haemodialysis

Numbers on Quotidian Haemodialysis by State
Australia & NZ 31 Dec 2011

[Bar chart showing the number of patients on quotidian haemodialysis by state in Australia and New Zealand as of 31 December 2011.]