National Renal Programme
2012

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National Renal Office
www.hse/go/nro
Strategic Vision for ESKD Services
(National Renal Strategy Review; NSP11; NSP12)

- The number of patients with ESKD will increase by 40-50 p.m.p. (170-200 patients) per annum.
- **Transplantation** is the best therapy for suitable patients and represents the best value for money.
- **Home therapies** offer an enhanced quality therapy and represent the next best value for money.
- **Hospital/Clinic-based haemodialysis** can also be an excellent therapy but is associated with the highest social costs, consumable costs, overhead costs, transport costs and ancillary costs.

- Planning should aim to maximise the proportion of patients receiving the best value therapies.
- **HSE Area-based planning** will optimise regional Capacity, Configuration and Governance of services.
- **System-wide** streamlining of Procurement, Contracting and Funding will enhance this.
Quality, Access, Cost in ESKD Care

1. Renal Transplantation
2. Home Therapies
3. Facility-based Haemodialysis

Many elements in each domain, especially Haemodialysis.
Current Networks of Renal Units
(*contracted Units)

<table>
<thead>
<tr>
<th>HSE Area</th>
<th>Parent Renal Unit</th>
<th>Satellite HD Unit</th>
<th>Home Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dublin North East</td>
<td>CGH (Cavan)</td>
<td>fmc Northern Cross*</td>
<td>PD/HHD</td>
</tr>
<tr>
<td></td>
<td>Beaumont (N.Dublin)</td>
<td>fmc Northern Cross*</td>
<td>PD/PD</td>
</tr>
<tr>
<td>Dublin Mid Leinster</td>
<td>MRH (Tullamore)</td>
<td>Beacon Sandymount*</td>
<td>PD/PD</td>
</tr>
<tr>
<td></td>
<td>AMNCH (S.Dublin)</td>
<td>Beacon Sandymount*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SVUH (S.Dublin)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>WRH (Waterford)</td>
<td>fmc Kilkenny*</td>
<td>PD/HHD</td>
</tr>
<tr>
<td></td>
<td>CUH (Cork)</td>
<td>KGH (Tralee)</td>
<td>PD/HHD</td>
</tr>
<tr>
<td>West</td>
<td>MRHD (Limerick)</td>
<td>fmc Limerick*</td>
<td>PD</td>
</tr>
<tr>
<td></td>
<td>MPUH (Galway)</td>
<td>Wellstone Galway*</td>
<td>PD</td>
</tr>
<tr>
<td></td>
<td>LGH (Letterkenny)</td>
<td>SGH (Sligo)</td>
<td>PD Approved</td>
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</tbody>
</table>
Renal Health Intelligence

1. Biannual Census of ESKD patients
2. Mapping of ESKD patient residence
3. HD Patient Dependency Study
4. Surveys of Unit Resources
5. National Roll-Out of KDCPMS I.T. System
Activity in Acute Public Hospitals
Annual Report 2010

ESRI
Health Research and Information Division
December 2011
MDC11
Diseases and Disorders of the Kidney and Urinary Tract

• Case Mix Analysis 2010
  1,310,527 discharges (excluding maternity)

  MDC with highest volume of total discharges
  210,413 (14.5%)  89% Day Patients

  MDC with 2\textsuperscript{nd} highest volume of Day Patients
  187,792 (21.2%)

  Haemodialysis (AR-DRG L61Z/ICD-10-AM Z49/ACHI 1060)
  167,963 (11.6%)

  Highest Ranked AR-DRG for Day Patients (19.9%)
  Highest Ranked Diagnosis for Day Patients (21.0%)
  Highest Ranked Procedure for Day Patients (21.2%)
# MDC11

*Diseases and Disorders of the Kidney and Urinary Tract*

<table>
<thead>
<tr>
<th></th>
<th>Number</th>
<th>% of total</th>
<th>Rank of 24 MDC’s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Discharges</td>
<td>210,413</td>
<td>14.5%</td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
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<tr>
<td>Day Patients</td>
<td>187,792</td>
<td>21.9%</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
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<tr>
<td>Inpatient Elective</td>
<td>5,095</td>
<td>4.7%</td>
<td>10&lt;sup&gt;th&lt;/sup&gt;</td>
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<tr>
<td>Inpatient Emergency</td>
<td>17,519</td>
<td>4.9%</td>
<td>6&lt;sup&gt;th&lt;/sup&gt;</td>
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</table>
# MDC11

*Diseases and Disorders of the Kidney and Urinary Tract*

<table>
<thead>
<tr>
<th>AR-DRG</th>
<th>Inpatients (Emergency)</th>
<th>Median (Mean) LOS</th>
<th>Median (Mean) LOS</th>
<th>Median (Mean) LOS</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Elective</td>
<td></td>
<td>Emergency</td>
</tr>
<tr>
<td>L61Z</td>
<td>Haemodialysis</td>
<td>9(1)</td>
<td>1 (2)</td>
<td>1 (1)</td>
</tr>
<tr>
<td>L60A</td>
<td>Renal Failure W Cat CC</td>
<td>506 (477)</td>
<td>10 (15.9)</td>
<td>13 (24.3)</td>
</tr>
<tr>
<td>L60B</td>
<td>Renal Failure W Sev CC</td>
<td>725 (661)</td>
<td>7 (8.3)</td>
<td>7 (11.7)</td>
</tr>
<tr>
<td>L60C</td>
<td>Renal Failure W/O CC</td>
<td>1,091 (860)</td>
<td>2 (4.3)</td>
<td>5 (7.3)</td>
</tr>
</tbody>
</table>
Priorities for Renal Services

**ESKD Services**
- Transplant Rate >175 p.a
- Home Therapies 60 p.m.p. (80 HHD)
- Network of HD facilities 20-30 p.m.p. growth p.a.
- No routine HD after 24.00h
- Reduced travel for HD
- Parent HD Units configured to support AKI/Satellites
- KDCPMS/Renal Registry

**Other Renal Services**
- Leaner, smarter organisation of Renal Units
- Integrate Renal Units with Acute Medicine Programme
- Develop Outreach services for non-ESKD patients
- Standardised evaluation & management of CKD in community setting
- Better access to dietetic services
Procurement Projects

Equipment/Consumables
- HSE South complete
- HSE West (Cavan, Midlands) complete
- Dublin/Paediatrics in 2012

Contracted Satellite Units
- 4 Dublin/Environs – approved by Board
  Midlands/South East in 2012
  Galway

Home Therapies
- Home HD National Programme complete
  PD National Programme in 2012

Related
- Patient Transport (>450,000 journeys/yr)
National CaseMix Programme
Ready Reckoner

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDC11</td>
<td>L61</td>
<td>MDC11</td>
</tr>
<tr>
<td>166,603</td>
<td>167,955</td>
<td>€439 per case</td>
</tr>
</tbody>
</table>
Major Identified Risks

- Any decrease in Renal Transplantation rate
- **Potential abrupt loss of large HD facility / delay in delivery of planned expansion**
- **Clinical governance of contracted HD Units**
- Inadequate access to vascular access procedures / HAI sepsis
- Poor access to dietetic services
Incident adult ESKD patients (n)

413 patients

80% HD
15% PD
5% TX

90 p.m.p.
Prevalent ESKD patients (n)

3775 patients

41% HD
6% PD/HHD
53% TX

824 p.m.p.

340 HD
46 PD/HHD
438 TX
Change in 2011

- ESKD: +124, 3.4%, 27 pmp
- HD: +3, 0.2%
- PD/HHD: +5, 2.4%
- Dialysis: +8, 0.5%, 2 pmp
- TX: +116, 6.0%, 25 pmp
## Change 2007-11

<table>
<thead>
<tr>
<th>Category</th>
<th>Change</th>
<th>Percentage</th>
<th>Mean (95%CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESKD</td>
<td>+632</td>
<td>20%</td>
<td>35 (29,41)pmp pa</td>
</tr>
<tr>
<td>HD</td>
<td>+228</td>
<td>17%</td>
<td>13 (5,20)pmp pa</td>
</tr>
<tr>
<td>PD/HHD</td>
<td>+20</td>
<td>10%</td>
<td>1 (-1,4) pmp pa</td>
</tr>
<tr>
<td>Dialysis</td>
<td>+248</td>
<td>15%</td>
<td>14 (6,22) pmp pa</td>
</tr>
<tr>
<td>TX</td>
<td>+384</td>
<td>24%</td>
<td>21 (17,26) pmp pa</td>
</tr>
</tbody>
</table>
Detailed Modalities

- TX: 53%
- CHD: 27%
- SHD: 4%
- SHDc: 10%
- OHD: 0%
- NI: 0%
- PD: 0%
- HHD: 5%
ESKD Patients 31/12/11
(total patients under governance of 11 Parent Renal Units)
Changes in ESKD Patients 2007-11
(total patients under governance of 11 Parent Renal Units)
Transplants 2009-11

- **2009**
  - K/LoH: 8
  - SPK: 18
  - LDK: 146
  - DDK: 0

- **2010**
  - K/LoH: 8
  - SPK: 23
  - LDK: 90
  - DDK: 0

- **2011**
  - K/LoH: 7
  - SPK: 27
  - LDK: 158
  - DDK: 0

Legend:
- K/LoH
- SPK
- LDK
- DDK
Transplants 2009-11

- Galway: 5, 16, 21, 24, 57
- Cork: 10, 31, 43, 80
- MRHT: 11, 24, 69
- AMNCH: 21, 43, 95
- Cavan: 5, 24
- Beaumont: 0, 20, 40, 60, 80
Transplants 2009-11

- DNE: 20%
- DML: 27%
- South: 25%
- West: 23%
- Paeds: 4%
- NI: 1%
Consultant wte pmp
Consultant wte/100 ESKD patients

UK mean: 1.1
Ireland: 0.6
Cavan-Monaghan: 0.5
North Dublin & Environ: 0.5
Beaumont: 0.4
Mater: 0.6
DML & Environ: 0.6
Midlands: 0.6
AMNCH: 0.6
SVUH: 0.6
SOUTH: 0.8
South East: 0.7
South West: 0.7
WEST: 0.5
Mid West: 0.3
West: 0.5
North West: 0.5
Consultant wte/100 Dialysis patients
Key Deliverables 2012

- Conclude Equipment/Consumables Tenders
- Conclude PD National Programme Tender
- Conclude Midlands/SE Contracted Satellite HD Unit Tender

- Establish Principles/Resource/Organisation of Transport Support for Facility HD Patients

- Continue expansion of Renal Transplant activity
- Commission Dublin/Environs Contracted Satellite HD Unit Network (Commercial/Governance)
Other Deliverables 2012

• Secure Consultant Appointment targets
• Implement HD Patient Dependency Tool
• Achieve staged roll-outs of KDCPMS

• Bundles to minimise HD Access associated HAI
• Agree KDCPMS collected KPI/Target outcomes
• 2 Core Targets: HD Access/TX Listing
Waiting/Needing Native AV Access

• 31/12/11 16% of 1557 HD patients

• HSE DNE: 100
• HSE DML: 25
• HSE South: 74
• HSE West: 51

• New ~350 (75% pre-HD)
Stakeholder Participation

• Regional Clinical/Administrative Leads
• Irish Kidney Association
• Irish Nephrology Nurses Association
• RIG, Irish Dietetic & Nutrition Institute
• Multiple HSE Support Directorates