Surgical Outcomes of the Australasian College of Podiatric Surgeons

National Audit
March 2011 to Feb 2012
Methodology

Foot & ankle surgery

- ACPS audit committee determined variables for collection
- Australian Council on Healthcare Standards (ACHS) input & clinical indicators
- Excel data capture of all activity by 17 podiatric surgeons (ACPS Fellows)
- Medicare Benefits Schedule database (MBS)
Analysis


Data analysis independently provided by the (ACHS)
Analysis

- Total practice audit compared to MBS
- Nail, lesser toe, ankle, 1st MPJ, neuroma, amputations, heel, rearfoot
- Nail, 1st MPJ, Rearfoot
- AVLOS
- ACHS Clinical Indicators (Day Surgery & Hospital Wide)
- Complications
MBS/Podiatric by procedure group

- Nail lesser
- 1st MPJ
- Rearfoot
- Ankle
- Heel
- Neuroma
- Amputations

Red bars represent Podiatric procedures, and the blue lines represent MBS x10.
Total Numbers of Podiatric Procedures/Age

(4647)

March 2011 - Feb 2012
Total Procedures Podiatric/MBS/Age
March 2011 to Feb 2012

Total numbers of podiatric procedures
Total number of MBS procedures X10
Podiatric/MBS Nail Procedures/Age

- Number of podiatric nail procedures
- Number of MBS nail procedures X 50

Podiatric 563
MBS 38520
Podiatric/MBS Rearfoot Procedures/Age

STJ fusion & Tarsal coalition
Podiatric 14 (0.3%)
MBS 390 (0.6%)
ACPS Fellows practice a similar case mix as MBS funded providers of foot and ankle surgery.
## Prevalence of Comorbidities in 1819 admissions

<table>
<thead>
<tr>
<th>Comorbidity</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetes – type 1 insulin using</td>
<td>266 (15%)</td>
</tr>
<tr>
<td>Diabetes – type 2 non insulin using</td>
<td>248 (14%)</td>
</tr>
<tr>
<td>Hypertension</td>
<td>230 (13%)</td>
</tr>
<tr>
<td>Ischaemic heart disease</td>
<td>119 (6.5%)</td>
</tr>
<tr>
<td>Osteoarthritis</td>
<td>95 (5%)</td>
</tr>
</tbody>
</table>
Prevalence of diabetes in 1819 admissions

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<tr>
<td>Diabetes –type 2 insulin using</td>
<td>80 (4%)</td>
</tr>
</tbody>
</table>
Average Length of Stay

- Nail
- 1st MPJ
- Rearfoot (STJ fusion & Tarsal coalition)
- 1 day
### ACHS Clinical Indicators

**Day Surgery (V4)**

<table>
<thead>
<tr>
<th>Day Surgery C.I.</th>
<th>Podiatric</th>
<th>ACHS aggregate rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failure to arrive</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Cancellation pre-existing/acute medical condition</td>
<td>0</td>
<td>0.3</td>
</tr>
<tr>
<td>Cancellation: admin/organisational</td>
<td>0</td>
<td>0.7</td>
</tr>
<tr>
<td>Unplanned O/N admit</td>
<td>*</td>
<td>2.3</td>
</tr>
<tr>
<td>Hospital Wide C.I.</td>
<td>Podiatric</td>
<td>ACHS aggregate rate</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>-----------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Unplanned readmission 28 days</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Unplanned readmission 14 days</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Unplanned return to O.R. during admission</td>
<td>0</td>
<td>0.3</td>
</tr>
<tr>
<td>Elective surgical patient admitted on day of surgery</td>
<td>100%</td>
<td>90%</td>
</tr>
</tbody>
</table>
Complications

**Group 1** infection (outpatient management)

**Group 2** infection (inpatient management)
ACHS reporting requirement

**Group 3** DVT (outpatient / inpatient management)

**Group 4** pulmonary embolus
Group 2 – Infection requiring inpatient management

Across 4647 procedures the infection rate was zero
<table>
<thead>
<tr>
<th>Procedure Group</th>
<th>Superficial SSI</th>
</tr>
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<tbody>
<tr>
<td>Nail</td>
<td>3.1 to 8.7</td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt; MPJ</td>
<td>1.4 to 11.8</td>
</tr>
<tr>
<td>Rearfoot (STJ fusion / Tarsal coalition)</td>
<td>0</td>
</tr>
</tbody>
</table>
Group 3 DVT
90604 - Correction of bone deformity

Group 4 Pulmonary embolus
50109 - Arthrodesis of joint, not elsewhere classified

1 case in 1900 cases = 0.05 %
Findings
Retrospective audit 4647 procedures in 12 months from March 2011

- Same case mix as current MBS funded providers
- Virtually all admissions are same day or day surgery
- Readmission & “take back” rate = 0%
- ACHS defined infection rate = 0%
- D.V.T. and P.E. rate = 0.02%
Findings
Retrospective audit 4647 procedures in 12 months from March 2011

- Adds to existing evidence that Fellows of the ACPS provide safe and quality foot and ankle surgery that is at least equivalent to existing MBS providers.

- MBS funding should be provided for ACPS Fellows.