Using AROC data to compare outcomes for older people in public and private rehabilitation units

Frances D. Simmonds
*University of Wollongong*, frances@uow.edu.au

Tara L. Stevermuer
*University of Wollongong*, hurst@uow.edu.au

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Abstract
[extract] AROC • Australasian Rehabilitation Outcomes Centre • National rehabilitation clinical registry - Australian and New Zealand • Established and manages national benchmarking system whose objective is to improve clinical rehabilitation outcomes for patients • Promotes the importance of rehabilitation in the continuum of care • Almost 100% coverage inpatient rehab units (232 units in Aus, 40 in NZ) • AROC receives data describing more than 100,000 episodes of rehab per year

Keywords
private, people, older, data, aroc, rehabilitation, outcomes, units, public, compare

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Using AROC Data to Compare Outcomes for Older People in Public and Private Rehabilitation Units

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Frances Simmonds, AROC Director
Tara Stevermuer, AROC Data Manager
“Yes, but mine is an educated guess; yours is just a guess guess.”
AROC

- Australasian Rehabilitation Outcomes Centre
- National rehabilitation clinical registry
  - Australian and New Zealand
- Established and manages national benchmarking system whose objective is to improve clinical rehabilitation outcomes for patients
- Promotes the importance of rehabilitation in the continuum of care
- Almost 100% coverage inpatient rehab units (232 units in Aus, 40 in NZ)
- AROC receives data describing more than 100,000 episodes of rehab per year
AROC Outputs

- Routine periodic benchmarking reports
- Annual AROC Report: the state of the rehabilitation nation
- National LOS and FIM Change benchmarks
- Facilitate development of impairment specific outcome targets (workshops)
- Jurisdictional benchmarking workshops/quality forums
- Data/data analysis access available for bona fide research
- Process support/ help desk (resources, verbal advice)
- Training – dataset, FIM, process
AROC data

• Cohort for this study defined as older people, 70 years +

• In 2013 AROC received data for 70,893 episodes for Australian older people
  ... 69% of all episodes

• 61% all Australian episodes for older people are provided in private hospitals
Impairment profile 2009-2013 by age groups
Data profile for this study

- Data period 2009-2013 Australian episodes
- 70 years +
- 4 specific impairments

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<tr>
<th></th>
<th>Public</th>
<th>Private</th>
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<tr>
<td>Stroke</td>
<td>3,679</td>
<td>1,587</td>
<td>5,266</td>
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<tr>
<td>Reconditioning</td>
<td>8,363</td>
<td>11,982</td>
<td>20,345</td>
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<td>Hip Fracture</td>
<td>3,318</td>
<td>2,406</td>
<td>5,724</td>
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<tr>
<td>Hip Arthroplasty</td>
<td>1,167</td>
<td>4,765</td>
<td>5,932</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16,527</strong></td>
<td><strong>20,740</strong></td>
<td><strong>37,267</strong></td>
</tr>
</tbody>
</table>
Episode Volume 2009-2013 by sector

- **Stroke**
- **Reconditioning**
- **Hip fracture**
- **Hip arthroplasty**
AN-SNAP profile 2009-2013 by sector

Stroke

Reconditioning

Hip fracture

Hip arthroplasty
Age profile 2009-2013 by sector

Stroke

Reconditioning

Hip fracture

Hip arthroplasty
ALOS by AN-SNAP class by sector 2013

Stroke

Reconditioning

Hip fracture

Hip arthroplasty
Average FIM Change by AN-SNAP class by sector, 2013

- Stroke
- Reconditioning
- Hip fracture
- Hip arthroplasty
FIM Efficiency by AN-SNAP class by sector, 2013

Stroke

Reconditioning

Hip fracture

Hip arthroplasty
Proportion discharged home by AN-SNAP class, by sector, 2013

**Stroke**

**Reconditioning**

**Hip fracture**

**Hip arthroplasty**

Proportion discharged home by AN-SNAP class, by sector, 2013
Casemix adjusted LOS by facility, 2013
Casemix adjusted FIM Change by facility, 2013
Key Messages

• Both public and private sectors provide care for the full range of AN-SNAP classes within each impairment
• Public sector admits a higher proportion of people with more complex needs
• Reviewing outcomes by sector is useful, but only tells part of the story
• Variation in outcomes at facility level is a key issue
"This really is an innovative approach, but I'm afraid we can't consider it. It's never been done before."
AROC Contact Details

Australian Health Services Research Institute (AHSRI)
Building 234 (iC Enterprise 1)
Innovation Campus
University of Wollongong  NSW  2522
Phone: 61 2 4221 4411
Email:aroc@uow.edu.au
Web: ahsri.uow.edu.au/aroc