



Classifying Subacute and Non-Acute Care - AN-SNAP V4

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Developing a new version of AN-SNAP

- What did we do?
- How did we do it?
- What does Version 4 look like?
- How is it different from Version 3?
- What happens next?

Background and context

- AN-SNAP = Australian National Subacute and Non-Acute Patient classification
- In 2012, AN-SNAP selected by IHPA as the ABF classification system to be used for subacute and non-acute care.
- In December 2013, CHSD commissioned by IHPA to develop AN-SNAP V4.
- Key objective to review the AN-SNAP V3 and develop a revised version that is suitable for ABF purposes
- Final products – report, AN-SNAP manual, AN-SNAP grouper, grouper manual

Project scope

- Project brief was to:
 - develop AN-SNAP V4
 - aim to develop paediatric subacute classes
 - consider new clinical tools where data available

- Project brief was not to:
 - Develop cost weights for AN-SNAP V4 classes
 - Develop a funding model for AN-SNAP V4

Project stages

- Stage 1: results included in Stage 1 Report
 - Review of previous work
 - Initial stakeholder consultation
- Stage 2: results included in Final Stakeholder Consultation Paper
 - Clinical consultation
 - Data preparation
 - Class finding
- Stage 3: results included in Final Project Report and AN-SNAP V4 Manual
 - Final stakeholder consultation
 - Grouper and associated documentation

Stakeholder consultation



Data available to project

- Primary source of data for project was public sector Round 16 (2011/12) National Hospital Cost Data Collection (NHCDC)
- Additional data included
 - PCOC
 - AROC
 - Paediatric datasets provided by units
 - Additional data provided by jurisdictions
- Insufficient data were available for class finding from the recent study undertaken by Ernst and Young on behalf of IHPA

Stage 1 Findings - Key cost drivers

- Rehabilitation: function, impairment, age, co-morbidities, complications (including those that arise during acute care), social support, initial severity of impairment and equipment requirements
- Palliative care: stage of illness (phase of care), function, age and acute complications
- Psychogeriatrics: function, behaviour and risk factors;
- GEM: function, diagnosis, acute medical complications, comorbidities, social support
- Maintenance: function, social support

Key Stage 2 and 3 Outcomes

- AN-SNAP V4 that includes 130 classes -
 - 83 overnight admitted classes for subacute episodes (for palliative care, rehabilitation, psychogeriatric care and GEM)
 - 6 same-day admitted subacute classes (per diem level)
 - 6 non-acute classes
 - 35 non-admitted classes (episode level) (for palliative care, rehabilitation, psychogeriatric care and GEM)
- Based on the branches where data were available and assuming costs follow a lognormal distribution, RID = 55%
- Majority of classes had a CV < 100

What's New in V4?

- Structural changes
 - Admitted & non-admitted branches rather than overnight & ambulatory
 - Paediatric classes in both the admitted and non-admitted branches
 - Name of maintenance care type changed to 'non-acute'
 - No non-admitted non-acute classes
 - No admitted classes for assessment only in V4
 - No bereavement class in the V4 palliative care branches
- Other changes
 - Introduction of some variables not used previously eg diagnosis of dementia and delirium for GEM classes
 - Weighted FIM score used in rehabilitation classes
 - New 4-character alpha numeric codes for AN-SNAP classes

The admitted adult classes

- 50 classes for rehabilitation
 - split on impairment, weighted FIM motor score, FIM cognition score, age
- 12 classes for palliative care
 - split on phase of illness, RUG-ADL, age, first/subsequent phase in episode (unstable phase)
- 6 classes for GEM
 - split on FIM motor score, delirium/dementia diagnosis
- 6 classes for psychogeriatric care
 - split on HoNOS 65+, LOS
- 6 classes for non-acute care
 - split on age, RUG-ADL, LOS

Paediatric classes

Admitted class code	Non-admitted class code	Description
4G01	4Y01	Palliative Care, Not Terminal phase, Age < 1 year
4G02	4Y02	Palliative Care, Stable phase, Age ≥ 1 year
4G03	4Y03	Palliative Care, Unstable or Deteriorating phase, Age ≥ 1 year
4G04	4Y04	Palliative Care, Terminal phase
4F01	4X01	Rehabilitation, Age ≤ 3
4F02	4X02	Rehabilitation, Age ≥ 4, Spinal cord dysfunction
4F03	4X03	Rehabilitation, Age ≥ 4, Brain dysfunction
4F04	4X04	Rehabilitation, Age ≥ 4, Neurological conditions
4F05	4X05	Rehabilitation, Age ≥ 4, All other impairments

Non-admitted adult classes

- Classes based on clinical advice
- Emerging view to consider combination of service event and episode counting for non-admitted subacute services
 - Single discipline – Tier 2
 - Multi-disciplinary – AN-SNAP
- Classes and splitting variables -
 - Rehabilitation – 8 classes defined by rehabilitation program
 - Palliative care – 8 classes defined by palliative care phase, RUG-ADL, palliative care symptom severity score
 - GEM – 4 classes defined by clinic type
 - Psychogeriatric – 6 classes defined by focus of care, HoNOS 65+

Implementation issues

- Data systems
 - Diagnosis variables in the GEM branch – most other grouping variables are collected on admission
 - Collection of splitting variables in the non-admitted setting
 - Introduction of four-character alpha-numeric codes for AN-SNAP
- External to the classification
 - Recognition of bereavement support for palliative care, including in paediatrics
 - Changes to the “maintenance” care type – consistency in terminology
 - Business rules around interruptions/leave days, dialysis
- Counting, cost weights, ...
 - “Episodes” in same-day and non-admitted settings
 - Development of cost weights for equivalent patients in different classes eg SD vs OP, rehabilitation reconditioning vs GEM

Future development

- Consideration of the overlap between the GEM, rehabilitation and psychogeriatric care types
- Ongoing work to capture, classify and cost consultation / liaison services
- Ongoing development of the paediatric AN-SNAP classes
 - Implementation of routine data collection
 - Development of cost weights
 - Refinement of impairment codes
 - Business rules for assignment to paediatric classes
- Ongoing work to refine AN-SNAP non-admitted and same-day admitted classes



thank you!

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