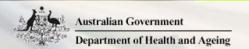
Outcomes in Palliative Care Report 11 January – June 2011





South Australia





About the Palliative Care Outcomes Collaboration (PCOC)

PCOC is a unique national program that utilises standardised validated clinical assessment tools to benchmark and measure outcomes in palliative care. Participation in PCOC is voluntary and enables palliative care service providers to improve practice and meet the Palliative Care Australia (PCA) Standards for Providing Quality Palliative Care for all Australians. PCOC is funded under the National Palliative Care Program and is supported by the Australian Government Department of Health and Ageing.

PCOC is a collaboration between four centres, each with a Chief Investigator, and is divided into four zones for the purpose of engaging with palliative care service providers. The four PCOC zones and their Chief Investigators are:



The National office is located within the Australian Health Services Research Institute at the University of Wollongong.

The items included in the PCOC dataset (Version 2) serve the dual purpose of:

- Defining a common clinical language to allow communication between palliative care providers
- Facilitating the routine collection of National palliative care data for the purpose of reporting and benchmarking to drive quality improvement

The dataset includes the clinical assessment tools: Phase of Care, Palliative Care Problem Severity Score (PCPSS), Symptom Assessment Scale (SAS), Australia-modified Karnofsky Performance Status Scale (AKPS) and Resource Utilisation Groups – Activities of Daily Living (RUG-ADL). These are used as indicators of the quality and outcomes of palliative care. For more information on the PCOC clinical tools or data items please visit www.pcoc.org.au



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Introduction

PCOC aims to assist services to improve the quality of the palliative care they provide through the analysis and benchmarking of patient outcomes. In this, the eleventh PCOC report, data submitted for the January – June 2011 period are summarised and patient outcomes benchmarked to enable participating services to assess their performance and identify areas in which they may improve.

This report is broken into three sections:

Section 1 summarises each of the four benchmark measures and presents national benchmarking results for selected benchmarks

Section 2 presents additional analysis for each of the four benchmark measures

Section 3 provides descriptive analysis of the data items at each of the patient, episode and phase levels

In each of the three sections, data and analysis for SA is presented alongside the national figures for comparative purposes. The national figures reflect all palliative care services who submitted data for the January – June 2011 period. A full list of these services can be found at www.pcoc.org.au

If you would like more information regarding this report please contact:

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"PCOC is an excellent example of a national and voluntary programme using benchmarking to measure outcomes in palliative care"

PRISMA (Reflecting the Positive Diversities of European Priorities for ReSearch and Measurement in End-of-Life CAre) in their recent publication

Outcome Measurement in Palliative Care – The Essentials, www.prismafp7.eu



Section 1 – South Australia at a Glance

Table 1 Summary of benchmark measures 1-3

| Measure | Description | Benchmark | Overni | ght admitted | Not adm | itted overnight |
|----------------------------------|--|----------------|----------|----------------|----------|-----------------|
| | | | SA Score | Benchmark Met? | SA Score | Benchmark Met? |
| 1. Time from referral to contact | Patients contacted on same or following day | 90% | 90.4 | Yes | 65.2 | No |
| 2. Time in unstable phase | Patients unstable less than 7 days - first phase | 85% | 90.3 | Yes | 63.6 | No |
| | Patients unstable less than 7 days - Not first phase | 90% | 94.6 | Yes | 62.9 | No |
| | Median time in unstable phase | 2 days or less | 2 days | Yes | 3 days | No |
| 3. Change in pain | Patients with absent/mild pain at phase start | 90% | 79.0 | No | 84.5 | No |
| PC Problem Severity Score | remaining absent/mild at phase end | | | | | |
| (PCPSS) | Patients with moderate/severe pain at phase start | 60% | 41.3 | No | 63.6 | Yes |
| | with absent/mild at phase end | | | | | |
| | Patients with absent/mild pain at phase start | 90% | 77.5 | No | 77.7 | No |
| Symptom Assessment Score | remaining absent/mild at phase end | | | | | |
| (SAS) | Patients with moderate/severe pain at phase start | 60% | 42.1 | No | 48.1 | No |
| | with absent/mild at phase end | | | | | |

Table 2 Summary of benchmark measure 4: Change in symptoms relative to the national average (X-CAS)

| Clinical Tool | Symptom | Benchmark | SA score | Benchmark met? |
|---------------|-------------------------|------------|----------|----------------|
| PC PSS | Pain Pain | | 0.11 | Yes |
| | Other symptoms | 0 or above | 0.27 | Yes |
| | Family/carer | 0 or above | 0.13 | Yes |
| | Psychological/spiritual | 0 or above | 0.11 | Yes |
| SAS | Pain | 0 or above | 0.08 | Yes |
| | Nausea | 0 or above | 0.11 | Yes |
| | Breathing | 0 or above | 0.16 | Yes |
| | Bowels | 0 or above | 0.02 | Yes |

For more information on the benchmark measures, see Section 2 and Appendix B



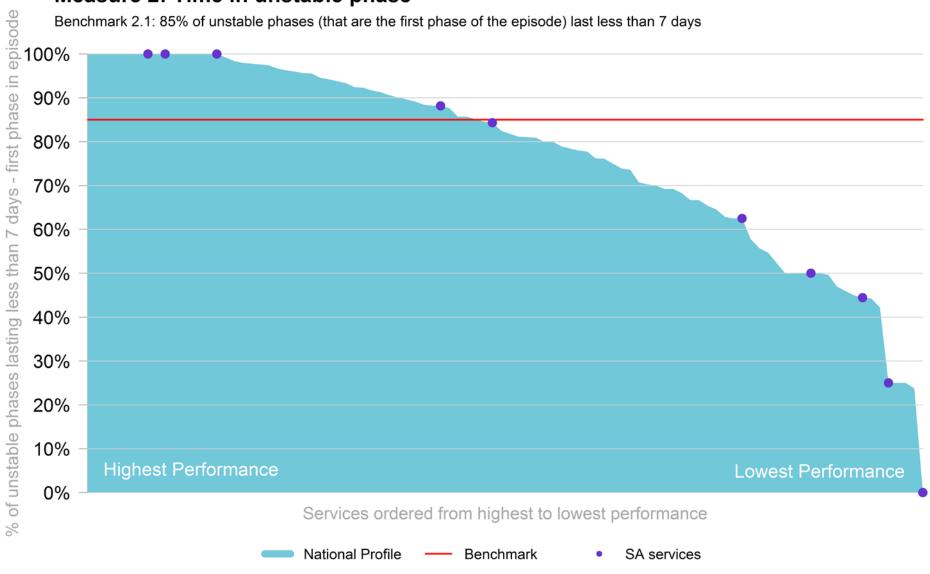
Measure 1: Time from referral to first contact

Benchmark 1: 90% of patients contacted the day of, or the day after referral



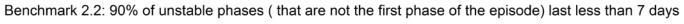


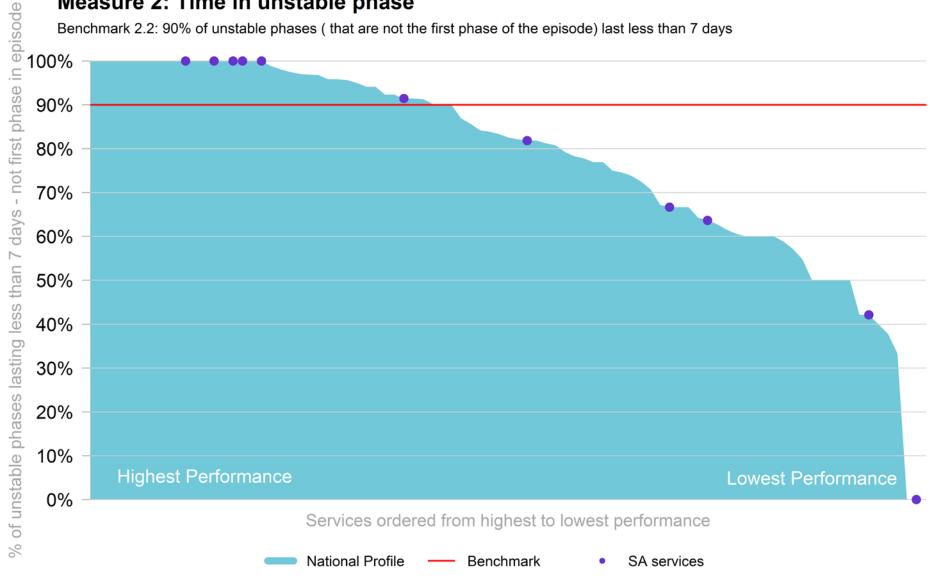
Measure 2: Time in unstable phase





Measure 2: Time in unstable phase

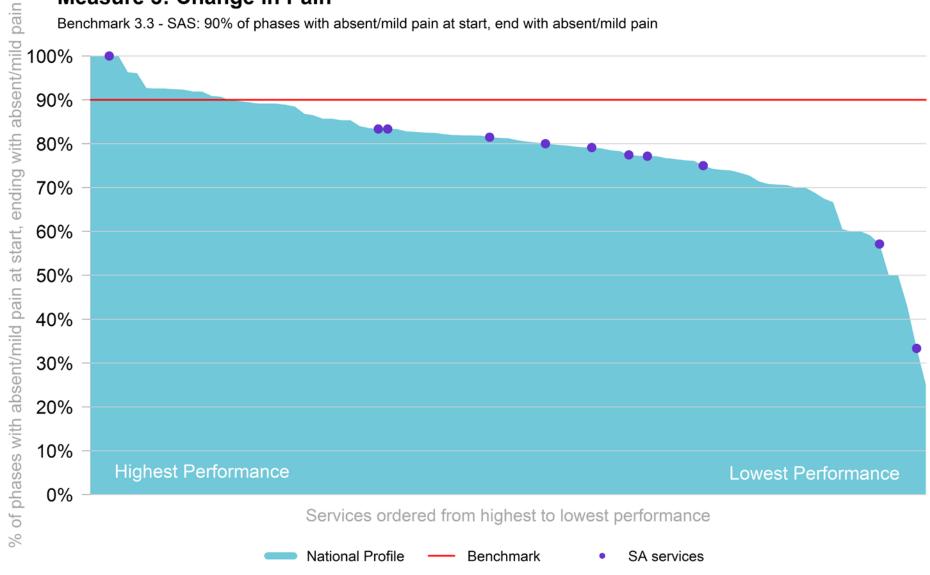




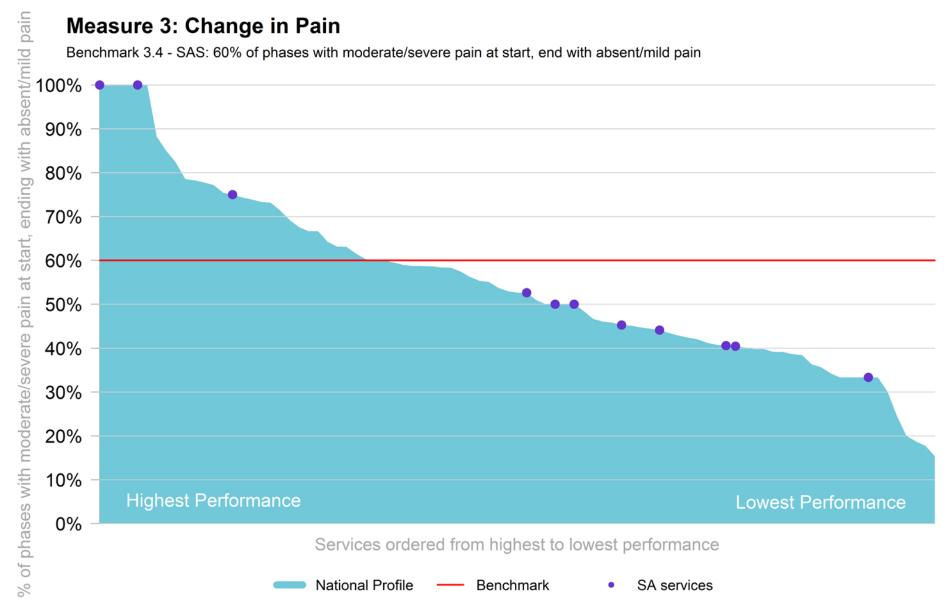














Section 2 – Benchmark Analysis

Measure 1 - Time from referral to first contact

Time from referral to first contact was selected as a benchmark measure as it reports responsiveness of palliative care services to patient needs. This benchmark was set acknowledging there is wide variation in delivery of palliative care service provision across the country. It was agreed at the 2008 national benchmarking workshops that access to palliative care service should be based on patient need rather than service availability. In other words services operating a 5 day week (Monday-Friday) are benchmarked against services operating 7 days a week.

Table 3 and Figure 1 below present descriptive data on the first benchmark measure. This measure is the percentage of patients seen either on the day of, or the day following the referral. The benchmark is **90%**.

The time from referral to first contact is calculated as the time from the date of referral to either the date of first contact (if provided) or the episode start date.

Table 3 Time from referral to first contact by episode type

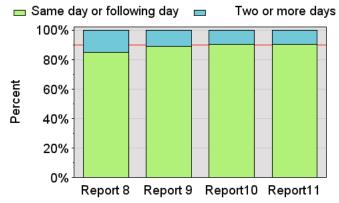
| Time (in days) | | Overnight admitted | | | Not admitted overnight | | | |
|---------------------------|-----|--------------------|--------------|------|------------------------|------|--------------|------|
| | SA | % | All Services | % | SA | % | All Services | % |
| Same day or following day | 731 | 90.4 | 9127 | 89.6 | 345 | 65.2 | 3058 | 52.1 |
| 2-7 days | 55 | 6.8 | 878 | 8.6 | 124 | 23.4 | 1856 | 31.6 |
| 8-14 days | 14 | 1.7 | 110 | 1.1 | 39 | 7.4 | 560 | 9.5 |
| Greater than 14 days | 9 | 1.1 | 74 | 0.7 | 21 | 4.0 | 395 | 6.7 |
| Average | 1.3 | na | 1.3 | na | 2.4 | na | 2.9 | na |
| Median | 1 | na | 1 | na | 1 | na | 1 | na |

Note: Episodes where referral date was not recorded are excluded from the table. In addition, all records where time from referral to first contact or time from first contact to episode start was greater than 7 days were considered to be outliers and were assumed to equal 7 days for the purpose of calculating the average and median time.

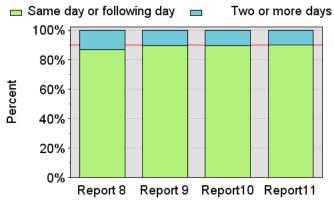


Figure 1 Time from referral to first contact

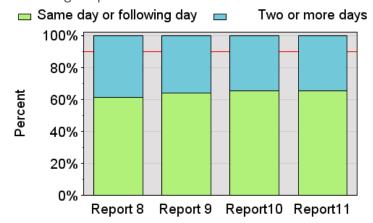
Overnight admitted episodes for SA



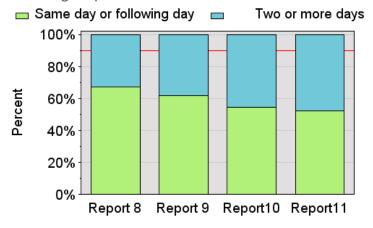
Overnight admitted episodes for all services



Not admitted overnight episodes for SA



Not admitted overnight episodes for all services





Measure 2 - Time in unstable phase

The unstable phase, by nature of its definition, alerts clinical staff to the need for urgent or emergency intervention. This phase shows the effectiveness of the intervention(s) implemented for a specific new or exacerbation of existing problem. Those patients determined as being in the unstable phase require intense review for a short period of time. This period of time was considered less than 7 days – that is, any patient who is deemed unstable should have their problem(s) managed and under control within this period of time regardless of the setting of care.

The following table presents descriptive data on the second benchmark measure. The first part of this measure is the percentage of patients remaining unstable for less than 7 days and is split by occurrence of unstable phase. The benchmark for patients in their first phase is 85% and for patients in a subsequent phase is 90%. The second part of this measure is the median time spent in the unstable phase and the benchmark is 2 days or less.

Table 4 Time in unstable phase by episode type and occurrence of unstable phase

| Episode type | Occurrence of unstable phase | Num | nber | Percent unstak | ole for < 7 days | Median days in unstable phase | | |
|------------------------|------------------------------|-----|--------------|----------------|------------------|-------------------------------|--------------|--|
| | | SA | All Services | SA | All Services | SA | All Services | |
| Overnight admitted | First phase | 268 | 5088 | 90.3 | 79.8 | 2 | 3 | |
| | Subsequent phase | 149 | 2461 | 94.6 | 86.4 | 2 | 2 | |
| | Total | 417 | 7549 | 91.8 | 82.0 | 2 | 3 | |
| Not admitted overnight | First phase | 55 | 847 | 63.6 | 59.6 | 4 | 4 | |
| | Subsequent phase | 70 | 1146 | 62.9 | 67.8 | 3 | 3 | |
| | Total | 125 | 1993 | 63.2 | 64.3 | 3 | 3 | |



Measure 3 - Change in pain

The management of patients with pain is acknowledged as core business for palliative care services. Hence measuring the distress from pain was agreed at the 2008 National Benchmarking workshops as an important outcome for palliative care services. Two of the five assessment tools used in PCOC are used to measure pain, the Symptom Assessment Score (SAS) is a patient rated tool and the palliative Care Problem Severity Score (PCPSS) is a clinician rated tool. At the 2008 benchmarking workshops it was agreed that the outcomes for pain are at 2 levels: Patients with absent/mild pain at phase start and patients with moderate/severe pain at phase start.

Change in pain - PC Problem Severity Score (PCPSS)

The following two tables present data on the third benchmark measure in relation to pain PCPSS. The first measure is the percentage of patients with absent/mild pain at phase start remaining with absent/mild pain at phase end and the benchmark is **90**%. The second measure is the percentage of patients with moderate/severe pain at phase start with absent/mild pain at phase end and the benchmark is **60**%. Note that only phases with a valid pain score at both the start and the end of the phase are included in the following analysis.

Table 5 Patients with absent or mild pain at beginning of phase whose pain remained absent or mild at end of phase

| Episode type | | | SA | | | All Services | | | |
|------------------------|--------|----------|----------|-----------|-----------|--------------|----------|-----------|-----------|
| | | Report 8 | Report 9 | Report 10 | Report 11 | Report 8 | Report 9 | Report 10 | Report 11 |
| Overnight | Number | 98 | 264 | 386 | 460 | 2166 | 2860 | 3969 | 5153 |
| admitted | % | 81.0 | 75.4 | 81.4 | 79.0 | 75.9 | 79.0 | 79.0 | 82.1 |
| Not admitted overnight | Number | 204 | 186 | 306 | 239 | 1336 | 1441 | 2415 | 2176 |
| | % | 75.3 | 71.5 | 78.9 | 84.5 | 77.1 | 75.8 | 74.9 | 75.1 |

Table 6 Patients with moderate or severe pain at beginning of phase whose pain decreased to absent or mild at end of phase

| Episode type | | | SA | | | All Services | | | |
|------------------------|--------|----------|----------|-----------|-----------|--------------|----------|-----------|-----------|
| | | Report 8 | Report 9 | Report 10 | Report 11 | Report 8 | Report 9 | Report 10 | Report 11 |
| Overnight | Number | 44 | 95 | 126 | 156 | 1031 | 1257 | 1655 | 1858 |
| admitted | % | 50.0 | 45.0 | 51.4 | 41.3 | 40.8 | 44.0 | 46.6 | 48.0 |
| Not admitted overnight | Number | 55 | 56 | 67 | 42 | 382 | 485 | 806 | 646 |
| | % | 51.9 | 60.2 | 58.8 | 63.6 | 54.0 | 55.7 | 57.5 | 57.3 |



Change in pain - Symptom Assessment Score (SAS)

The following two tables present data on the third benchmark measure in relation to pain SAS. The first measure is the percentage of patients who commenced with absent/mild pain at phase start and have absent/mild pain at phase end and the benchmark is **90**%. The second measure is the percentage of patients with moderate/severe pain at phase start with absent/mild pain at phase end and the benchmark is **60**%. Note that only phases with a valid pain score at both the start and the end of the phase are included in the following analysis.

Table 7 Patients with absent or mild pain at beginning of phase whose pain remained absent or mild at end of phase

| Episode type | | SA | | | All Services | | | | |
|------------------------|--------|----------|----------|-----------|--------------|----------|----------|-----------|-----------|
| | | Report 8 | Report 9 | Report 10 | Report 11 | Report 8 | Report 9 | Report 10 | Report 11 |
| Overnight | Number | 303 | 351 | 534 | 462 | 2950 | 3370 | 4672 | 5902 |
| admitted | % | 75.9 | 73.7 | 80.4 | 77.5 | 76.7 | 79.8 | 78.8 | 81.8 |
| Not admitted overnight | Number | 184 | 162 | 261 | 185 | 2008 | 1978 | 2825 | 2566 |
| | % | 75.4 | 72.6 | 74.6 | 77.7 | 76.8 | 78.2 | 76.4 | 76.8 |

Table 8 Patients with moderate or severe pain at beginning of phase whose pain decreased to absent or mild at end of phase

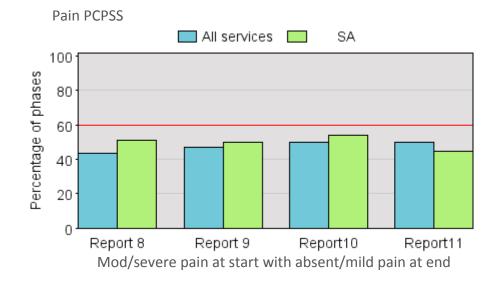
| Episode type | | | SA | | | | All Services | | | |
|------------------------|--------|----------|----------|-----------|-----------|----------|--------------|-----------|-----------|--|
| | | Report 8 | Report 9 | Report 10 | Report 11 | Report 8 | Report 9 | Report 10 | Report 11 | |
| Overnight | Number | 147 | 175 | 202 | 183 | 1339 | 1453 | 1912 | 2159 | |
| admitted | % | 43.1 | 41.5 | 40.8 | 42.1 | 41.0 | 41.3 | 45.7 | 46.4 | |
| Not admitted overnight | Number | 56 | 53 | 69 | 52 | 598 | 591 | 846 | 708 | |
| | % | 42.7 | 41.7 | 46.0 | 48.1 | 50.1 | 53.1 | 55.3 | 57.0 | |

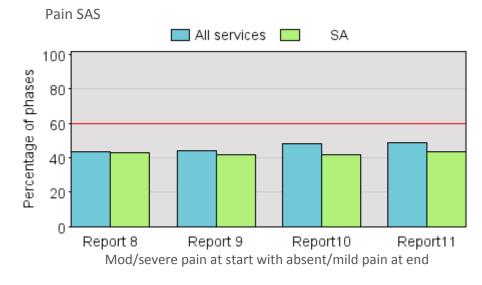


Figure 2 Change in pain benchmark measures - all phases











Measure 4 – Change in symptoms relative to the baseline national average (X-CAS)

Measure 4 includes a suite of case-mix adjusted scores used to compare the change in symptoms for similar patients i.e. patients in the same phase who started with the same level of symptom. Eight symptoms are included this report:

| 1. PCPSS Pain | 2. PCPSS Other symptoms | 3. PCPSS Psychological/spiritual | 4. PCPSS Family/carer |
|---------------|-------------------------|----------------------------------|-----------------------|
| 5. SAS Pain | 6. SAS Nausea | 7. SAS Bowels | 8. SAS Breathing |

The suite of benchmarks included in Measure 4 are generally referred to as <u>X-CAS</u> – *CAS* standing for *Case-mix Adjusted Score*, and the *X* to represent that multiple symptoms are included.

How to interpret X-CAS:

The X-CAS benchmarks are calculated relative to a baseline reference period (currently July-December 2008). As a result:

If X-CAS is greater than 0 then on average, the patients' change in symptom was better than similar patients in the baseline reference period.

If X-CAS is equal to 0 then on average, the patients' change in symptom was about the same as similar patients in the baseline reference period.

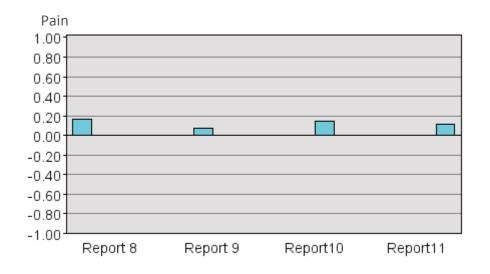
If X-CAS is <u>less than 0</u> then on average, the patients' change in symptom was <u>worse than similar patients</u> in the baseline reference period.

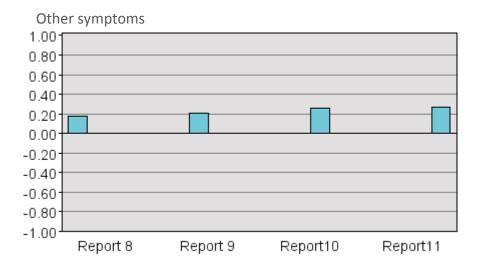
As the X-CAS measures look at change in symptom, they are only able to be calculated on phases which ended in phase change or discharge (as the phase end scores are required to determine the change). Bereavement phases are excluded from the analysis.

A more technical explanation of X-CAS is included in Appendix B.



Figure 3 PCPSS mean change adjusted for phase and symptom score at start of phase







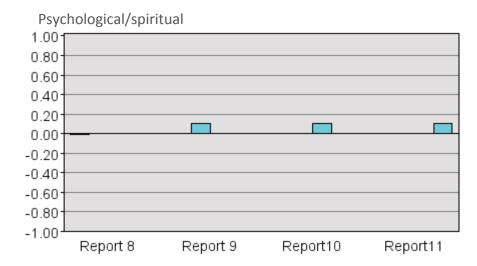
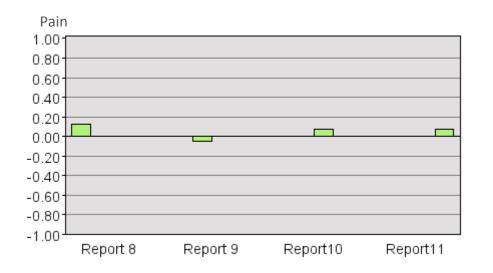
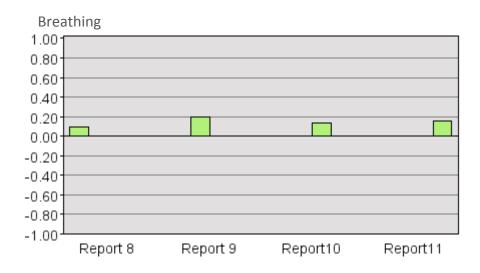


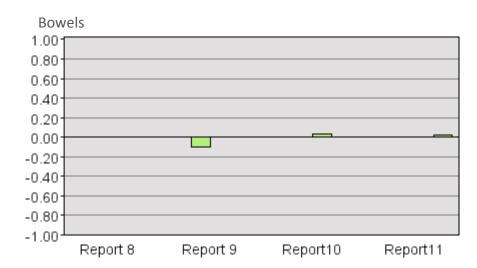


Figure 4 SAS mean change adjusted for phase and symptom score at start of phase











Section 3 - Descriptive analysis

There are three levels of PCOC data items – Patient, Episode and Phase.

The broad detail is found at the patient level, where the data items look at patient demographics.

At the episode level, the items focus on characterising each setting of palliative care. They also describe the reasons behind why and how palliative care episodes start/end, the level of support patients receive both before and after an episode and (where applicable) the setting in which the patient died.

The clinical focus of PCOC is at the **phase level**. The items at this level describe the patient's stage of illness, functional impairment as well as their levels of pain and symptom distress. The items at the phase level are used to quantify patient outcomes, and are the focus of the PCOC Benchmarks in the previous sections.

This section provides an overview of the data submitted by SA services at each level for the current reporting period. Summaries of the national data are included for comparative purposes.

Some tables throughout this section may be incomplete. This is because some items may not be applicable to a particular service or it may be due to data quality issues.

Please use the following key when interpreting the tables:

- na The item is not applicable
- u The item was unavailable/unable to be calculated due to missing or invalid data.

In addition, interpret all figures carefully as results may appear distorted due to low frequencies being represented as percentages.



Profile of palliative care patients

The information collected on each patient includes Indigenous status, sex, main language spoken at home and country of birth. Table 9 shows the Indigenous status for all patients for SA and nationally. Non-disclosure of Indigenous status can result in cultural issues not being identified. A number of programs exist that can assist services to encourage Indigenous persons to identify.

Table 9 Indigenous Status - all patients

| Indigenous Status | SA | All Services |
|--|-----|--------------|
| Aboriginal but not Torres Strait Islander origin | 6 | 141 |
| Torres Strait Islander but not Aboriginal origin | 0 | 25 |
| Both Aboriginal and Torres Strait Islander origin | 1 | 17 |
| Neither Aboriginal nor Torres Strait Islander origin | 953 | 12982 |
| Not stated/inadequately described | 39 | 720 |
| Total | 999 | 13885 |

Table 10 shows a breakdown of malignant and non-malignant diagnosis for the patients for SA and at the national level. The development of Version 3 Data Set will include further opportunity to expand on diagnosis for both malignant and non-malignant categories.



Table 10 Primary diagnosis

| Table 10 Primary diagnosis | | CA - | 0/ | All C | 0/ |
|----------------------------|-------------------------------------|------|-------|--------------|-------|
| Primary diagnosis | | SA | % | All Services | % |
| Malignant | Bone and soft tissue | 16 | 1.9 | 215 | 1.9 |
| | Breast | 67 | 7.9 | 883 | 7.7 |
| | CNS | 24 | 2.8 | 196 | 1.7 |
| | Colorectal | 100 | 11.9 | 1260 | 11.0 |
| | Gynaecological | 49 | 5.8 | 546 | 4.8 |
| | Haematological | 63 | 7.5 | 607 | 5.3 |
| | Head and neck | 48 | 5.7 | 656 | 5.7 |
| | Lung | 177 | 21.0 | 2245 | 19.6 |
| | Pancreas | 49 | 5.8 | 619 | 5.4 |
| | Prostate | 51 | 6.0 | 764 | 6.7 |
| | Skin | 28 | 3.3 | 429 | 3.8 |
| | Other GIT | 77 | 9.1 | 965 | 8.4 |
| | Other urological | 24 | 2.8 | 453 | 4.0 |
| | Other malignancy | 37 | 4.4 | 604 | 5.3 |
| | Unknown primary | 33 | 3.9 | 328 | 2.9 |
| | Malignant - not further defined | 0 | 0.0 | 662 | 5.8 |
| | All malignant | 843 | 100.0 | 11432 | 100.0 |
| Non-malignant | Cardiovascular | 38 | 24.5 | 440 | 20.0 |
| | HIV/AIDS | 1 | 0.6 | 9 | 0.4 |
| | Kidney failure | 13 | 8.4 | 285 | 13.0 |
| | Neurological disease | 37 | 23.9 | 491 | 22.4 |
| | Respiratory failure | 25 | 16.1 | 322 | 14.7 |
| | Other non-malignancy | 41 | 26.5 | 567 | 25.8 |
| | Non-malignant - not further defined | 0 | 0.0 | 82 | 3.7 |
| | All non-malignant | 155 | 100.0 | 2196 | 100.0 |

Note: All patients where diagnosis was not stated/inadequately described are excluded from the table.



Profile of palliative care episodes

An episode of care is a period of contact between a patient and a palliative care service that is provided by one palliative care service and occurs in one setting – for the purposes of this report, either as an overnight admitted patient or not admitted overnight patient.

An episode of care refers to the care received within one setting. An episode of palliative care begins on the day the patient is assessed face to face by the palliative care provider and there is agreement between the patient and the service.

An episode of palliative care ends when:

- the principal clinical intent of the care changes and the patient is no longer receiving palliative care
- the patient is formally separated from the hospital/hospice/community or,
- the patient dies

Referral source refers to the service or organisation from which the patient was referred to for each individual episode of care. Table 11 presents referral source by episode type. Review of referral source can identify opportunities to connect with referral sources that are currently lower than the national referral profile (e.g. a community service with few GP referrals may want to re-address referral or triage practices and look to working more collaboratively).



Table 11 Referral source by episode type

| Referral source | | Overnigh | t admitted | | | Not admitte | ed overnight | |
|--|-----|----------|--------------|-------|-----|-------------|--------------|-------|
| | SA | % | All Services | % | SA | % | All Services | % |
| Public hospital - other than inpatient palliative care unit | 362 | 44.7 | 4741 | 45.2 | 258 | 48.7 | 3305 | 47.9 |
| Self, carer(s), family or friends | 19 | 2.3 | 315 | 3.0 | 21 | 4.0 | 227 | 3.3 |
| Private hospital - other than inpatient palliative care unit | 77 | 9.5 | 714 | 6.8 | 64 | 12.1 | 862 | 12.5 |
| Public palliative care inpatient unit/hospice | 41 | 5.1 | 306 | 2.9 | 23 | 4.3 | 411 | 6.0 |
| Private palliative care inpatient unit/hospice | 13 | 1.6 | 48 | 0.5 | 3 | 0.6 | 39 | 0.6 |
| General medical practitioner | 25 | 3.1 | 620 | 5.9 | 59 | 11.1 | 847 | 12.3 |
| Specialist medical practitioner | 9 | 1.1 | 332 | 3.2 | 44 | 8.3 | 366 | 5.3 |
| Community-based palliative care agency | 132 | 16.3 | 2206 | 21.0 | 11 | 2.1 | 89 | 1.3 |
| Community-based service | 28 | 3.5 | 393 | 3.7 | 27 | 5.1 | 185 | 2.7 |
| Residential aged care facility | 15 | 1.9 | 83 | 0.8 | 13 | 2.5 | 184 | 2.7 |
| Other | 12 | 1.5 | 88 | 0.8 | 7 | 1.3 | 174 | 2.5 |
| Not stated/inadequately described | 77 | 9.5 | 654 | 6.2 | 0 | 0.0 | 205 | 3.0 |
| Total | 810 | 100.0 | 10500 | 100.0 | 530 | 100.0 | 6894 | 100.0 |

Table 12 Place of death - patients not admitted overnight

| Place of death | SA | % | All Services | % |
|-----------------------------------|-----|-------|--------------|-------|
| Private residence | 93 | 44.3 | 1055 | 56.9 |
| Residential aged care setting | 31 | 14.8 | 288 | 15.5 |
| Other location* | 77 | 36.7 | 345 | 18.6 |
| Not stated/inadequately described | 9 | 4.3 | 165 | 8.9 |
| Total | 210 | 100.0 | 1853 | 100.0 |

^{*} Includes patients who have died in a hospital setting without the episode of non-admitted palliative care being ended. Patients whose community episode has ended when admitted to hospital are excluded from this table.



Table 13 gives a summary of the length of episode for patients for SA and nationally.

Table 13 Length of episode summary

| Length of episode | Overnight | admitted | Not admitte | d overnight |
|---------------------------|-----------|--------------|-------------|--------------|
| | SA | All Services | SA | All Services |
| Average length of episode | 10.6 | 11.6 | 29.0 | 23.3 |
| Median length of episode | 7.0 | 7.0 | 45.0 | 22.0 |

Note: Bereavement phase records are excluded and episodes that remain open at the end of the reporting period (and hence do not have an episode end date), are also excluded. In addition, any records where LOS was greater than 90 days were considered to be outliers and are excluded from the average calculations.

Table 14 details the length of episodes by number of days.

Table 14 Length of episode breakdown

| Length of episode | | Overnigh | t admitted | | | Not admitte | d overnight | |
|----------------------|-----|----------|--------------|-------|-----|-------------|--------------|-------|
| | SA | % | All Services | % | SA | % | All Services | % |
| Same day | 35 | 4.3 | 367 | 3.6 | 31 | 5.9 | 535 | 8.3 |
| 1-2 days | 154 | 19.1 | 1902 | 18.5 | 23 | 4.4 | 506 | 7.9 |
| 3-4 days | 112 | 13.9 | 1387 | 13.5 | 21 | 4.0 | 305 | 4.7 |
| 5-7 days | 140 | 17.4 | 1730 | 16.8 | 24 | 4.5 | 459 | 7.1 |
| 8-14 days | 173 | 21.5 | 2167 | 21.1 | 42 | 8.0 | 788 | 12.2 |
| 15-21 days | 87 | 10.8 | 1079 | 10.5 | 51 | 9.7 | 610 | 9.5 |
| 22-30 days | 48 | 6.0 | 704 | 6.8 | 30 | 5.7 | 553 | 8.6 |
| 31-60 days | 47 | 5.8 | 718 | 7.0 | 81 | 15.3 | 1003 | 15.6 |
| 61-90 days | 8 | 1.0 | 158 | 1.5 | 64 | 12.1 | 552 | 8.6 |
| Greater than 90 days | 2 | 0.2 | 74 | 0.7 | 161 | 30.5 | 1131 | 17.6 |
| Total | 806 | 100.0 | 10286 | 100.0 | 528 | 100.0 | 6442 | 100.0 |

Note: Bereavement phase records are excluded and episodes that remain open at the end of the reporting period (and hence do not have an episode end date), are also excluded.



Profile of palliative care phases

The palliative care phase is the stage of the patient's illness. Palliative care phases are not sequential and a patient may move back and forth between phases. Palliative care phases provide a clinical indication of the level of care required. There are five palliative care phases; stable, unstable, deteriorating, terminal and bereaved.

Table 15 Number of phases by phase type and episode type

| Phase | | Overnigh | admitted | | Not admitted overnight | | | | | |
|---------------|------|----------|--------------|-------|------------------------|-------|--------------|-------|--|--|
| | SA | % | All Services | % | SA | % | All Services | % | | |
| Stable | 518 | 27.9 | 6914 | 26.1 | 353 | 40.1 | 4338 | 36.6 | | |
| Unstable | 417 | 22.4 | 7549 | 28.5 | 125 | 14.2 | 1993 | 16.8 | | |
| Deteriorating | 594 | 32.0 | 6595 | 24.9 | 348 | 39.5 | 4383 | 37.0 | | |
| Terminal | 297 | 16.0 | 4084 | 15.4 | 51 | 5.8 | 1036 | 8.8 | | |
| Bereaved | 32 | 1.7 | 1381 | 5.2 | 4 | 0.5 | 90 | 0.8 | | |
| All phases | 1858 | 100.0 | 26523 | 100.0 | 881 | 100.0 | 11840 | 100.0 | | |

Table 16 Average phase length (in days) by phase and episode type

| Phase | Overnight | t admitted | Not admitted overnight | | | |
|---------------|-----------|--------------|------------------------|--------------|--|--|
| | SA | All Services | SA | All Services | | |
| Stable | 6.8 | 7.0 | 30.1 | 23.6 | | |
| Unstable | 2.8 | 4.3 | 9.5 | 8.6 | | |
| Deteriorating | 5.1 | 5.3 | 19.8 | 16.1 | | |
| Terminal | 2.5 | 2.2 | 5.4 | 2.9 | | |
| Bereaved | 1.3 | 1.1 | 2.0 | 2.1 | | |

Note: Phase records where length of phase was greater than 90 days were considered to be outliers and are excluded from the average calculations.



Table 17 Profile of PC Problem Severity Scores at beginning of phase by phase type - overnight admitted (percentages)

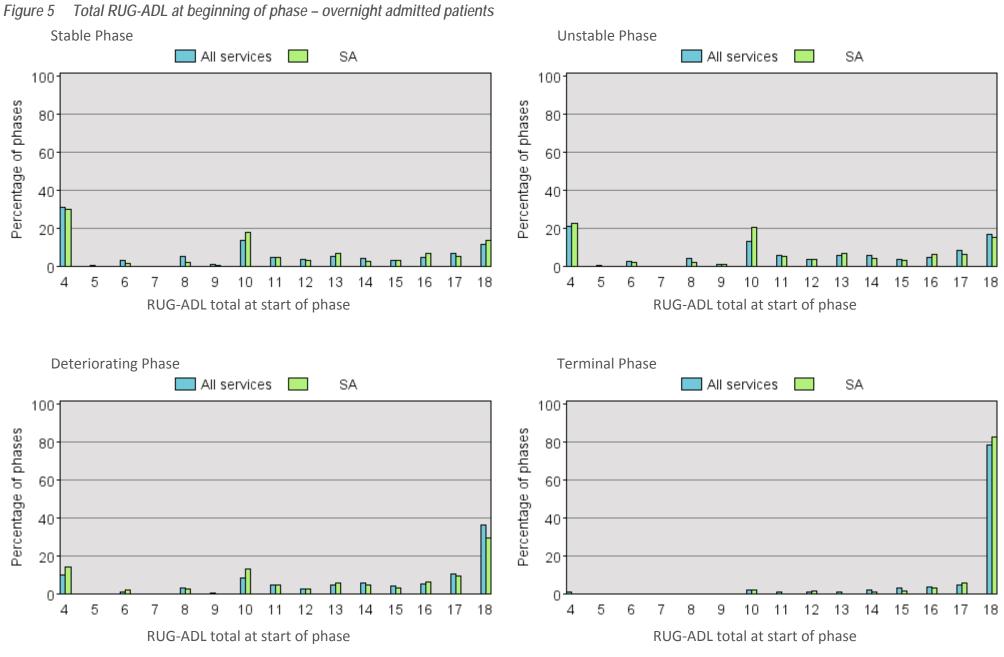
| Phase | Problem severity | | S | A | | All Services | | | | |
|---------------|-------------------------|--------|------|----------|--------|--------------|------|----------|--------|--|
| | | Absent | Mild | Moderate | Severe | Absent | Mild | Moderate | Severe | |
| Stable | Pain | 36.0 | 43.4 | 17.9 | 2.7 | 43.0 | 37.5 | 15.5 | 4.0 | |
| | Other Symptom | 15.0 | 48.8 | 30.2 | 6.0 | 20.2 | 42.7 | 27.3 | 9.8 | |
| | Psychological/Spiritual | 19.3 | 53.8 | 22.4 | 4.4 | 24.7 | 45.9 | 21.8 | 7.6 | |
| | Family/Carer | 22.8 | 48.7 | 22.8 | 5.6 | 33.4 | 37.9 | 19.9 | 8.9 | |
| Unstable | Pain | 25.6 | 29.3 | 32.6 | 12.5 | 25.2 | 27.6 | 30.5 | 16.6 | |
| | Other Symptom | 9.0 | 26.8 | 46.6 | 17.5 | 8.1 | 24.4 | 41.8 | 25.7 | |
| | Psychological/Spiritual | 13.4 | 39.8 | 36.9 | 9.8 | 13.9 | 34.9 | 34.8 | 16.4 | |
| | Family/Carer | 15.3 | 38.1 | 36.2 | 10.3 | 21.0 | 31.0 | 30.5 | 17.6 | |
| Deteriorating | Pain | 21.1 | 36.0 | 29.7 | 13.2 | 30.7 | 32.4 | 26.3 | 10.6 | |
| | Other Symptom | 7.0 | 28.3 | 43.7 | 20.9 | 9.2 | 26.2 | 40.0 | 24.6 | |
| | Psychological/Spiritual | 8.6 | 38.0 | 40.9 | 12.5 | 17.3 | 35.9 | 30.5 | 16.2 | |
| | Family/Carer | 18.7 | 30.4 | 37.4 | 13.5 | 21.1 | 30.2 | 30.1 | 18.6 | |
| Terminal | Pain | 24.0 | 30.2 | 30.9 | 14.9 | 38.2 | 28.4 | 21.9 | 11.6 | |
| | Other Symptom | 17.5 | 27.3 | 30.9 | 24.4 | 21.0 | 22.5 | 28.9 | 27.5 | |
| | Psychological/Spiritual | 20.3 | 35.1 | 29.1 | 15.5 | 35.3 | 26.5 | 21.5 | 16.6 | |
| | Family/Carer | 10.1 | 26.4 | 33.1 | 30.4 | 15.0 | 24.8 | 31.8 | 28.4 | |



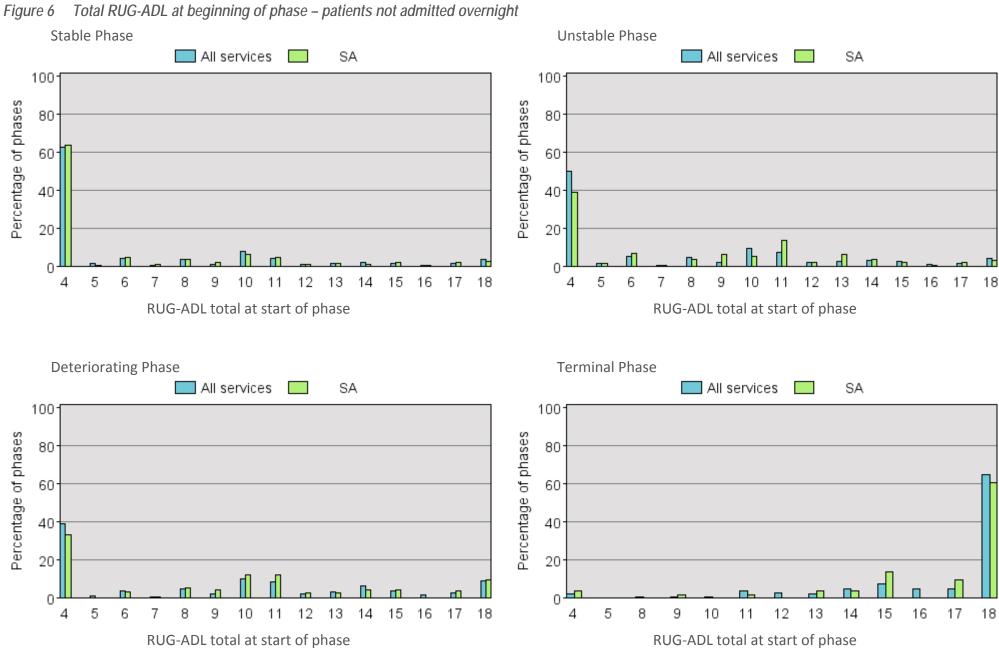
 Table 18 Profile of PC Problem Severity Scores at beginning of phase by phase type - not admitted overnight (percentages)

| Phase | Problem severity | | 5 | SA | | All Services | | | | |
|---------------|-------------------------|--------|------|----------|--------|--------------|------|----------|--------|--|
| | | Absent | Mild | Moderate | Severe | Absent | Mild | Moderate | Severe | |
| Stable | Pain | 39.7 | 53.0 | 6.8 | 0.6 | 36.8 | 48.9 | 13.0 | 1.3 | |
| | Other Symptom | 12.2 | 56.4 | 29.7 | 1.7 | 15.7 | 55.3 | 26.5 | 2.4 | |
| | Psychological/Spiritual | 22.7 | 58.1 | 18.1 | 1.1 | 24.8 | 52.4 | 20.5 | 2.3 | |
| | Family/Carer | 19.5 | 54.4 | 22.9 | 3.1 | 23.8 | 46.0 | 26.5 | 3.7 | |
| Unstable | Pain | 24.0 | 27.2 | 33.6 | 15.2 | 17.3 | 27.5 | 35.4 | 19.8 | |
| | Other Symptom | 1.6 | 18.4 | 55.2 | 24.8 | 6.4 | 27.0 | 45.4 | 21.2 | |
| | Psychological/Spiritual | 9.6 | 36.0 | 42.4 | 12.0 | 13.4 | 39.9 | 34.4 | 12.2 | |
| | Family/Carer | 8.8 | 26.4 | 46.4 | 18.4 | 15.0 | 29.7 | 38.0 | 17.4 | |
| Deteriorating | Pain | 30.5 | 45.4 | 19.8 | 4.3 | 26.2 | 45.6 | 22.8 | 5.5 | |
| | Other Symptom | 3.7 | 35.7 | 51.0 | 9.5 | 6.5 | 34.6 | 46.3 | 12.6 | |
| | Psychological/Spiritual | 14.4 | 49.7 | 29.6 | 6.3 | 18.2 | 46.1 | 28.7 | 7.1 | |
| | Family/Carer | 11.8 | 37.9 | 38.8 | 11.5 | 13.8 | 32.1 | 41.9 | 12.2 | |
| Terminal | Pain | 39.2 | 37.3 | 17.6 | 5.9 | 36.4 | 38.9 | 17.3 | 7.4 | |
| | Other Symptom | 11.8 | 33.3 | 35.3 | 19.6 | 21.2 | 33.1 | 30.1 | 15.6 | |
| | Psychological/Spiritual | 52.9 | 25.5 | 9.8 | 11.8 | 42.7 | 34.8 | 15.2 | 7.2 | |
| | Family/Carer | 9.8 | 39.2 | 35.3 | 15.7 | 12.7 | 29.6 | 37.1 | 20.5 | |











RUG-ADL (shown on the previous two pages) consists of 4 items (bed mobility, toileting, transfers and eating) and should be assessed on admission, at phase change and at episode end.

The Karnofsky Performance Status Scale used in PCOC is the Australia-modified version which is applicable to both inpatient and community palliative care. The Karnofsky Performance Scale assesses patient/client functioning and performance and can be used in determining prognosis /survival times.

Karnofsky & RUG-ADL can be used together to provide a profile of both patient dependency, equipment requirements, need for allied health referrals and carer burden/respite requirements.

Table 19 Karnofsky score at phase start by episode type

| Karnofsky score | | Overnight | admitted | | | Not admitte | ed overnight | |
|---|------|-----------|--------------|-------|-----|-------------|--------------|-------|
| | SA | % | All Services | % | SA | % | All Services | % |
| Comatose or barely rousable | 155 | 8.5 | 2298 | 9.2 | 17 | 1.9 | 453 | 3.9 |
| Totally bedfast and requiring extensive nursing care | 424 | 23.3 | 5020 | 20.0 | 69 | 7.9 | 1049 | 9.0 |
| Almost completely bedfast | 237 | 13.0 | 2887 | 11.5 | 43 | 4.9 | 742 | 6.4 |
| In bed more than 50% of the time | 305 | 16.8 | 4035 | 16.1 | 135 | 15.4 | 1473 | 12.6 |
| Requires considerable assistance | 392 | 21.5 | 4837 | 19.3 | 273 | 31.2 | 2626 | 22.5 |
| Requires occasional assistance | 240 | 13.2 | 3311 | 13.2 | 204 | 23.3 | 2651 | 22.7 |
| Cares for self | 50 | 2.7 | 1003 | 4.0 | 108 | 12.3 | 1670 | 14.3 |
| Normal activity with effort | 7 | 0.4 | 377 | 1.5 | 16 | 1.8 | 588 | 5.0 |
| Able to carry on normal activity; minor signs or symptoms | 0 | 0.0 | 117 | 0.5 | 5 | 0.6 | 157 | 1.3 |
| Normal; no complaints; no evidence of disease | 0 | 0.0 | 7 | 0.0 | 0 | 0.0 | 8 | 0.1 |
| Not stated/inadequately described | 10 | 0.5 | 1165 | 4.6 | 5 | 0.6 | 265 | 2.3 |
| Total | 1820 | 100.0 | 25057 | 100.0 | 875 | 100.0 | 11682 | 100.0 |



Table 20 How stable phases end

| Phase end reason | | Overnight | admitted | | Not admitted overnight | | | | |
|-----------------------------------|-----|-----------|--------------|-------|------------------------|-------|--------------|-------|--|
| | SA | % | All Services | % | SA | % | All Services | % | |
| Phase change | 287 | 55.4 | 3926 | 56.8 | 188 | 53.3 | 2843 | 65.5 | |
| Discharge/case closure | 207 | 40.0 | 2841 | 41.1 | 114 | 32.3 | 1169 | 26.9 | |
| Died | 23 | 4.4 | 117 | 1.7 | 50 | 14.2 | 266 | 6.1 | |
| Bereavement phase end | 1 | 0.2 | 10 | 0.1 | 0 | 0.0 | 1 | 0.0 | |
| Not stated/inadequately described | 0 | 0.0 | 20 | 0.3 | 1 | 0.3 | 59 | 1.4 | |
| Total | 518 | 100.0 | 6914 | 100.0 | 353 | 100.0 | 4338 | 100.0 | |

Figure 7 Stable phase progression - overnight admitted

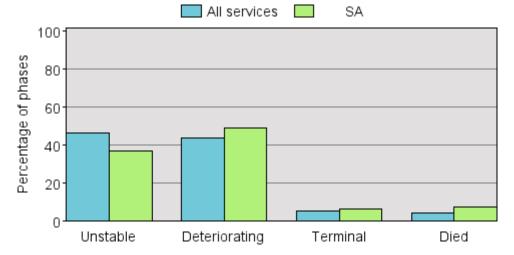


Figure 8 Stable phase progression - not admitted overnight

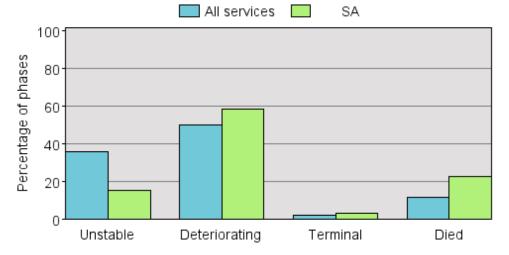




Table 21 How unstable phases end

| Phase end reason | Overnight admitted | | | | Not admitted overnight | | | |
|-----------------------------------|--------------------|-------|--------------|-------|------------------------|-------|--------------|-------|
| | SA | % | All Services | % | SA | % | All Services | % |
| Phase change | 372 | 89.2 | 6464 | 85.6 | 75 | 60.0 | 1406 | 70.5 |
| Discharge/case closure | 30 | 7.2 | 721 | 9.6 | 39 | 31.2 | 462 | 23.2 |
| Died | 14 | 3.4 | 345 | 4.6 | 11 | 8.8 | 89 | 4.5 |
| Bereavement phase end | 0 | 0.0 | 12 | 0.2 | 0 | 0.0 | 4 | 0.2 |
| Not stated/inadequately described | 1 | 0.2 | 7 | 0.1 | 0 | 0.0 | 32 | 1.6 |
| Total | 417 | 100.0 | 7549 | 100.0 | 125 | 100.0 | 1993 | 100.0 |

Figure 9 Unstable phase progression - overnight admitted

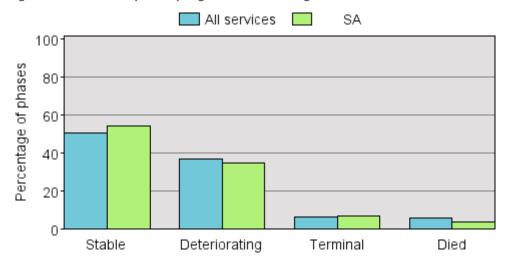


Figure 10 Unstable phase progression - not admitted overnight

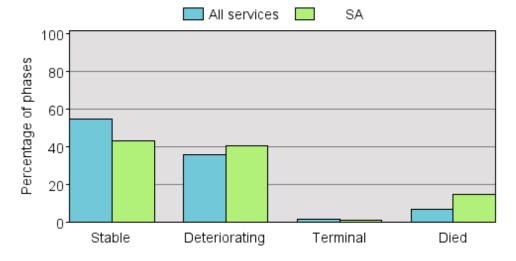




Table 22 How deteriorating phases end

| Phase end reason | Overnight admitted | | | | Not admitted overnight | | | |
|-----------------------------------|--------------------|-------|--------------|-------|------------------------|-------|--------------|-------|
| | SA | % | All Services | % | SA | % | All Services | % |
| Phase change | 389 | 65.5 | 4595 | 69.7 | 138 | 39.7 | 2304 | 52.6 |
| Discharge/case closure | 93 | 15.7 | 844 | 12.8 | 114 | 32.8 | 1366 | 31.2 |
| Died | 110 | 18.5 | 1110 | 16.8 | 96 | 27.6 | 679 | 15.5 |
| Bereavement phase end | 2 | 0.3 | 37 | 0.6 | 0 | 0.0 | 4 | 0.1 |
| Not stated/inadequately described | 0 | 0.0 | 9 | 0.1 | 0 | 0.0 | 30 | 0.7 |
| Total | 594 | 100.0 | 6595 | 100.0 | 348 | 100.0 | 4383 | 100.0 |

Figure 11 Deteriorating phase progression - overnight admitted

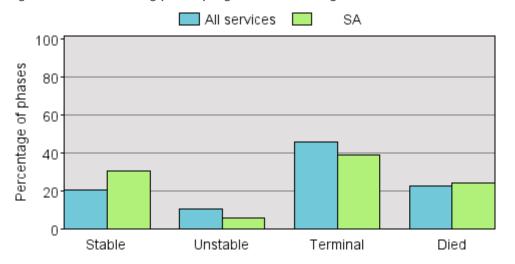


Figure 12 Deteriorating phase progression - not admitted overnight

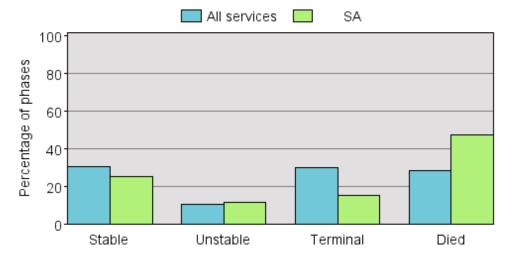




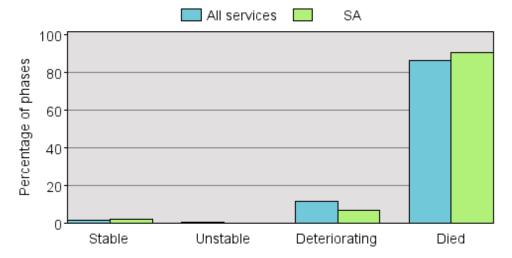
Table 23 How terminal phases end

| Phase end reason | Overnight admitted | | | | Not admitted overnight | | | |
|-----------------------------------|--------------------|---------------------|------|-------|------------------------|-------|--------------|-------|
| | SA | SA % All Services % | | | SA | % | All Services | % |
| Phase change | 14 | 4.7 | 480 | 11.8 | 7 | 13.7 | 224 | 21.6 |
| Discharge/case closure | 6 | 2.0 | 75 | 1.8 | 6 | 11.8 | 75 | 7.2 |
| Died | 274 | 92.3 | 3416 | 83.6 | 37 | 72.5 | 724 | 69.9 |
| Bereavement phase end | 1 | 0.3 | 106 | 2.6 | 1 | 2.0 | 6 | 0.6 |
| Not stated/inadequately described | 2 | 0.7 | 7 | 0.2 | 0 | 0.0 | 7 | 0.7 |
| Total | 297 | 100.0 | 4084 | 100.0 | 51 | 100.0 | 1036 | 100.0 |

Figure 13 Terminal phase progression - overnight admitted



Figure 14 Terminal phase progression - not admitted overnight





Appendix A – Summary of data included in this report

A1 – Data Summary

This report includes data from a total of 100 services, 11 of which were from SA. During the reporting period, data were provided for a total of 13885 patients who between them had 17394 episodes of care and 38363 palliative care phases. These total numbers are determined by a data scoping method. This method looks at the phase level data first and includes all phases that ended within the current reporting period. The associated episodes and patients are then determined (Section A3 contains a more detailed explanation of this process). Table 24 shows the number of patients, episodes and phases included in this report – both for SA and nationally.

A consequence of the data scoping method is that it is likely that not all phases related to a particular episode are included in this report. Hence, the average number of phases per episode calculation shown in Table 24 may be an underestimate (due to episodes that cross-over 2 or more reporting periods) as it only includes phases that ended within the current reporting period.

Table 24 Number and percentage of patients, episodes and phases - by episode type

| Episode Type | Overnight admitted | | Not admitte | d overnight | Total | | |
|--|--------------------|--------------|-------------|--------------|-------|--------------|--|
| | SA | All Services | SA | All Services | SA | All Services | |
| Number of patients* | 627 | 8890 | 508 | 5750 | 999 | 13885 | |
| Number of episodes | 810 | 10500 | 530 | 6894 | 1340 | 17394 | |
| Number of phases | 1858 | 26523 | 881 | 11840 | 2739 | 38363 | |
| Percentage of patients* | 62.8 | 64.0 | 50.9 | 41.4 | 100 | 100 | |
| Percentage of episodes | 60.4 | 60.4 | 39.6 | 39.6 | 100 | 100 | |
| Percentage of phases | 67.8 | 69.1 | 32.2 | 30.9 | 100 | 100 | |
| Average number of phases per episode** | 2.3 | 2.4 | 1.7 | 1.7 | 2.0 | 2.1 | |

^{*} Patients seen in both an overnight admitted and not admitted overnight setting are only counted once in the total column and hence numbers/percentages may not add to the total.

^{**} Average number of phases per episode is only calculated for closed episodes and excludes bereavement phases.



A2 – Data Item Completion

Overall, the quality of data submitted to PCOC is very good and, as shown in Tables 25, 26 and 27 below, the rate of data completion is very high. In reviewing this table, it is important to note that in some cases some data items are not required to be completed. For example, place of death is only required for non-admitted patients who have died. Hence the complete column in the following tables only refers to the percentage of complete records where the data item was relevant.

PCOC strongly encourages services to complete and submit the whole data set on every patient as non-completion may result in services being excluded from relevant benchmarking activities or erroneous conclusions being drawn. Low completion of data items may also distort percentages and tables in some sections.

Table 25 Item completion- patient level

| Data item | % Complete | | | |
|-------------------|----------------|-------|--|--|
| | SA All Service | | | |
| Date of birth | 100.0 | 100.0 | | |
| Sex | 99.9 | 99.9 | | |
| Indigenous status | 96.1 | 94.8 | | |
| Country of birth | 83.2 | 94.1 | | |
| Main language | 95.4 | 91.5 | | |
| Primary diagnosis | 99.9 | 98.6 | | |

Table 26 Item completion- episode level

| Data item | % Complete | | | |
|-----------------------------------|------------|--------------|--|--|
| | SA | All Services | | |
| Date of first contact/assessment | 99.8 | 96.2 | | |
| Referral date | 99.9 | 92.3 | | |
| Referral source | 94.3 | 95.1 | | |
| Episode start date | 100.0 | 100.0 | | |
| Mode of episode start | 100.0 | 99.0 | | |
| Accommodation at episode start | 98.7 | 97.4 | | |
| Episode end date | 100.0 | 99.9 | | |
| Level of support at episode start | 99.0 | 82.9 | | |
| Mode of episode end | 96.9 | 98.1 | | |
| Accommodation at episode end | 94.8 | 88.1 | | |
| Level of support at episode end | 99.3 | 97.1 | | |
| Place of death | 95.7 | 91.1 | | |



Table 27 Item completion - phase level

| Data item | Sub-Category | % Complete | | |
|--------------------------|-------------------------|------------|--------------|--|
| | (where applicable) | SA | All Services | |
| Phase start date | | 100.0 | 100.0 | |
| Phase | - | 100.0 | 100.0 | |
| RUG-ADL | Bed Mobility | 99.9 | 95.2 | |
| at phase start | Toileting | 100.0 | 95.1 | |
| | Transfers | 100.0 | 95.0 | |
| | Eating | 99.9 | 94.4 | |
| PC Problem Severity | Pain | 95.9 | 79.1 | |
| at phase start | Other Symptom | 95.8 | 83.1 | |
| | Psychological/Spiritual | 99.9 | 92.8 | |
| | Family/Carer | 99.9 | 91.6 | |
| Symptom Assessment | Insomnia | 99.5 | 86.7 | |
| Score | Appetite | 99.5 | 89.2 | |
| at phase start | Nausea | 99.5 | 89.5 | |
| | Bowels | 99.4 | 88.9 | |
| | Breathing | 99.5 | 89.5 | |
| | Fatigue | 99.5 | 89.7 | |
| | Pain | 99.5 | 90.0 | |
| Phase end reason | - | 99.9 | 99.5 | |
| Karnofsky at phase start | - | 99.4 | 96.1 | |

Some tables throughout this report may be incomplete. This is because some items may not be applicable or it may be due to data quality issues.

Please use the following key when interpreting the tables:

na The item is not applicable

u The item was unavailable/unable to be calculated due to missing or invalid data.

In addition, interpret all figures carefully as results may appear distorted due to low frequencies being represented as percentages.

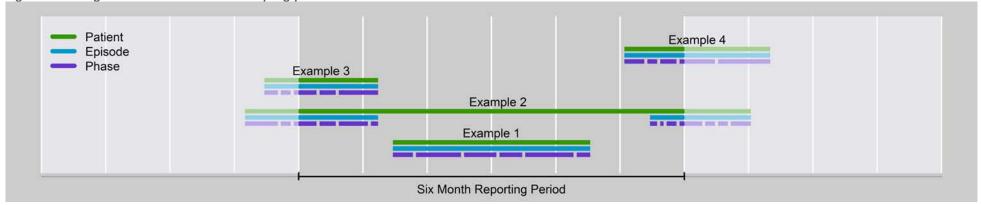


A3 – Data scoping methodology

The method used to determine which data is included in a PCOC report looks at the phase level records first. All phase records that <u>end</u> within the 6 month reporting period are deemed to be "in scope" and would be included in the report. The episode and patient records associated with these phases are also deemed to be "in scope" and hence would also be included in the report.

Figure 15 below displays four examples to help visualize this process.





In <u>Example 1</u>, the patient (represented by the green line) has one episode (represented by the blue line). This episode has six phases (represented by the purple line segments). All six phases would be included in the report as they all end within the reporting period. Hence, the episode and patient would also be in the report.

In <u>Example 2</u>, the patient has two episodes - the first having six phases and the second having seven phases. Looking at the phases associated with the first episode, the last four will be included in the report (as they end within the reporting period). For the phases relating to the second episode, only the first three end within the period, so only these would be included in the report. Both of the episode records and the patient record would also be reported on.

In <u>Example 3</u>, the patient has one episode and five phases. Only the last three phases will be reported on as they are the only ones ending within the reporting period. The episode and patient records would be included in the report.

In <u>Example 4</u>, the patient again has one episode and five phases. This time, only the first three phases will be included in the report. Again, the episode and patient records would be included in the report on as they have associated phases ending within the period.



Appendix B – Benchmark Notes

B1 – Outline of Benchmark Measures and Targets

There is strong sectoral support for national benchmarks and a consensus that such benchmarks can drive service innovation regardless of model of care. Benchmarking provides opportunities to understand the services that are provided, the outcomes patients experience and also to generate research opportunities focused on how to demonstrate variations in practice and outcomes.

Beginning in the reporting period January to June 2009 (Report 7), PCOC introduced four benchmark measures into the routine PCOC reports:

| Measure | Benchmark |
|--|--|
| 1. Time from referral to first contact | 90% of patients are contacted on the day of, or the day after referral |
| 2. Time in unstable phase | 85% in their first phase remain unstable for less than 7 days 90% in a subsequent phase remain unstable for less than 7 days The median time in unstable phase is 2 days or less |
| 3. Change in pain (both PCPSS and SAS) | 90% of phases that start with absent/mild pain start pain have absent/mild end pain 60% of phases with moderate/severe start pain have absent/mild end pain |
| 4. Change in symptoms relative to the national average (8 symptoms are included) | A score of 0 or above |

It is recognised that services aspire to achieve best practice, and to reflect this, current benchmarks have intentionally been set at a high level. Where a service does not meet the benchmark, PCOC has adopted a target of improvement of 10% per year. The PCOC Quality Improvement Facilitators (QIFs) can assist services to identify areas where improvements can be made.



B2 – National profile graphs

In each national profile graph, the shaded region describes the national profile for that benchmark. SA services are highlighted as dots on the graph. Graphs may have differing numbers of dots, caused by services not qualifying for inclusion in a particular benchmark. This may be caused by insufficient data item completion, or services not having any records falling into a particular category, for example, no phases starting with moderate/severe SAS pain.

B3 - X-CAS technical notes

The procedure for calculating X-CAS is as follows:

- Step 1. Using the baseline data, calculate the average change in symptom for <u>all patients</u> in the same phase, having the same symptom start score. This is called the **expected** change.
- **Step 2.** For each individual phase, calculate the change in symptom score (start score minus end score)
- **Step 3.** For each individual phase, calculate the difference between their <u>change in symptom score</u> (calculated in step 2) and the relevant expected change (calculated in step 1).
- **Step 4.** Average all of the values calculated in step 3 to produce the service's Symptom Casemix-Adjusted Score (e.g. PCAS)

Example:

| Phase | PCPSS Pain | PCPSS Pain | Step 1: Expected PCPSS Pain change | Step2: PCPSS Pain change | Step 3: Difference | Step 4: Average of |
|---------------|------------|------------|------------------------------------|-------------------------------|-----------------------|---------------------------|
| | at start | at end | (from Report 6 National Database) | (start score minus end score) | (Step 2 minus Step 1) | values in step 3 |
| Stable | 0 | 1 | -0.8 | -1 | -0.2 | |
| Stable | 1 | 1 | -0.9 | 0 | 0.9 | <u>(-0.2+0.9+0.4-0.4)</u> |
| Unstable | 3 | 1 | 1.6 | 2 | 0.4 | 4 |
| Deteriorating | 2 | 1 | 1.4 | 1 | -0.4 | = 0.175 |



Acknowledgements

Contributions

PCOC wishes to acknowledge the valuable contribution made by:

- Members of the Management Advisory Board of PCOC
- The many staff from palliative care services who have spent considerable time collecting, collating and correcting the data and without whose effort this report would not be possible
- The PCOC National staff at the Australian Health Services Research Institute, University of Wollongong, for the collation, analysis and reporting of the data
- The PCOC Quality Improvement Facilitators for working closely with services to support the data collection and data quality improvement processes
- The Australian Government Department of Health and Ageing for funding this initiative

Disclaimer

PCOC has made every effort to ensure that the data used in this report are accurate. Data submitted to PCOC are checked for anomalies and services are asked to re-submit data prior to the production of the PCOC report. We would advise readers to use their professional judgement in considering all information contained in this report.

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