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Patient Outcomes in Palliative Care, Report 13 (January - June 2012) - Western Australia

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Abstract

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This report is broken into four sections:

Section 1 provides a summary of the data included in this report.

Section 2 summarises each of the four outcome measures and presents national benchmarking results for a selection of these measures.

Section 3 presents a more detailed analysis of the outcome measures and benchmarks.

Section 4 provides descriptive analysis at each of the patient, episode and phase data levels.

In each of the four sections, data and analysis for services in WA is presented alongside the national figures for comparative purposes. The national figures reflect all palliative care services who submitted data for the January - June 2012 period. A full list of these services can be found at www.pcoc.org.au

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Keywords

western, care, palliative, outcomes, patient, 2012, june, january, 13, australia, report

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Patient Outcomes in Palliative Care Report 13, January - June 2012





Western Australia





About the Palliative Care Outcomes Collaboration (PCOC)

PCOC is a unique national program that utilises standardised clinical assessment tools to measure and benchmark patient outcomes in palliative care. Participation in PCOC is voluntary and can assist palliative care service providers to improve practice and meet the Palliative Care Australia (PCA) Standards for Providing Quality Palliative Care for all Australians. This is achieved via the PCOC dataset; a multi-purpose framework designed to:

- provide clinicians with an approach to systematically assess individual patient experiences
- define a common clinical language to streamline communication between palliative care providers
- facilitate the routine collection of national palliative care data to drive quality improvement through reporting and benchmarking

The PCOC dataset includes the clinical assessment tools: Palliative Care Phase, 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).

PCOC has divided Australia into four zones for the purpose of engaging with palliative care service providers. Each zone is represented a chief investigator from one of the four collaborative centres. The four PCOC zones and their respective chief investigators are:



Each zone is also represented by one or more quality improvement facilitators, whose role includes supporting services to participate in PCOC and facilitating ongoing service development and quality improvement.

The National office is located within the Australian Health Services Research Institute at the University of Wollongong. If you would like more information about PCOC please visit our website www.pcoc.org.au or email us at pcoc@uow.edu.au or phone (02) 4221 4411.



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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 thirteenth PCOC report, data submitted for the January - June 2012 period are summarised and patient outcomes benchmarked to enable participating services to assess their performance and identify areas in which they may improve.

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The four outcome measures included in this report were first introduced in the reporting period January to June 2009 (Report 7). 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.

Note some tables throughout this report 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.



Section 1 – Summary of data included in this report

1.1 Data summary

This report includes data from a total of 103 services. During the reporting period, data were provided for a total of 15,505 patients who between them had 19,157 episodes of care and 41,947 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 A contains a more detailed explanation of this process). Table 1 shows the number of patients, episodes and phases included in this report – both for WA 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 1 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 1 Number and percentage of patients, episodes and phases by setting

Catting	Inpatient		Ambulatory 8	& community	Total		
Setting	WA	All Services	WA	All Services	WA	All Services	
Number of patients*	1,166	9,501	1,120	6,794	2,217	15,505	
Number of episodes	1,361	10,983	1,413	8,174	2,774	19,157	
Number of phases	3,339	27,814	2,466	14,133	5,805	41,947	
Percentage of patients*	52.6	61.3	50.5	43.8	100	100	
Percentage of episodes	49.1	57.3	50.9	42.7	100	100	
Percentage of phases	57.5	66.3	42.5	33.7	100	100	
Average number of phases per episode**	2.3	2.4	1.7	1.7	2.0	2.1	

^{*} Patients seen in both settings 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, excludes bereavement phases and may also be an underestimate due to the data scoping methodology (see Section A).



1.2 Data Item Completion

Overall, the quality of data submitted to PCOC is very good and, as shown in Tables 2, 3 and 4 below, the rate of data completion is very high. In reviewing these tables, 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 ambulatory and community 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 graphs in some sections.

Table 2 Item completion (per cent complete)
- patient level

Partitioner		
Data item	WA	All Services
Date of birth	100.0	100.0
Sex	100.0	99.9
Indigenous status	95.3	96.1
Country of birth	92.9	95.4
Main language	95.1	93.4
Primary diagnosis	93.9	96.8

Note: This table is not split by setting to be consistent with the patient level analysis throughout this report.

Table 2 Item completion (per cent complete) Table 3 Item completion by setting (per cent complete) - episode level

	Inpa	tient	Ambul: comn	atory & nunity	Total		
Data item	WA	All Services	WA	All Services	WA	All Services	
Date of first contact/assessment	98.8	96.0	99.9	97.5	99.4	96.7	
Referral date	99.6	97.4	21.7	86.3	59.9	92.7	
Referral source	99.0	94.4	99.9	98.9	99.5	96.3	
Mode of episode start	100.0	99.7	99.6	98.9	99.8	99.4	
Accommodation at episode start	96.3	94.6	99.9	97.4	98.1	95.8	
Episode end date	99.6	99.3	100.0	99.9	99.8	99.6	
Level of support at episode start	98.0	81.3	11.8	83.1	52.1	82.1	
Mode of episode end	92.6	97.9	99.8	99.6	96.0	98.6	
Accommodation at episode end	89.5	84.7	95.5	77.9	90.6	83.0	
Level of support at episode end	98.4	98.2	20.0	89.5	87.0	96.1	
Place of death	na	na	96.9	91.8	96.9	91.8	



Table 4 Item completion by setting (per cent complete) - phase level

Data itam	Sub-Category	Inpa	tient	Ambulatory 8	& community	Total		
Data item	(where applicable)	WA	All Services	WA	All Services	WA	All Services	
RUG-ADL	Bed mobility	99.9	96.8	95.5	97.1	98.0	96.9	
at phase start	Toileting	99.9	96.9	94.8	96.9	97.6	96.9	
	Transfers	99.9	96.8	92.6	96.6	96.7	96.7	
	Eating	99.9	96.8	84.0	94.9	92.9	96.1	
PC Problem Severity	Pain	56.0	79.5	23.2	84.2	41.5	81.2	
at phase start	Other symptom	55.8	87.1	23.2	83.5	41.4	85.8	
	Psychological/spiritual	99.4	98.2	23.3	84.1	65.9	93.3	
	Family/carer	99.4	98.2	23.3	83.9	65.9	93.2	
Symptom Assessment	Insomnia	99.6	92.2	93.6	90.2	97.0	91.5	
Scale	Appetite problems	99.6	92.2	89.2	94.5	95.0	93.0	
at phase start	Nausea	99.6	92.2	95.5	95.5	97.8	93.3	
	Bowel problems	99.6	92.2	93.2	94.0	96.8	92.8	
	Breathing problems	99.6	92.2	96.5	95.5	98.3	93.4	
	Fatigue	99.4	92.2	94.3	95.9	97.2	93.5	
	Pain	99.7	92.2	97.0	96.7	98.5	93.8	
Phase end reason	-	99.5	99.7	99.8	99.7	99.7	99.7	
Karnofsky at phase start	-	99.6	94.9	99.5	97.7	99.5	95.9	



Section 2 – Benchmark summary

2.1 WA at a glance

Table 5 Summary of outcome measures 1-3 by setting

Outcome measure	Description	Benchmark	Inpatient		Ambulatory & community	
			WA Score	Benchmark Met?	WA Score	Benchmark Met?
1. Time from referral to first contact	Benchmark 1: Patients contacted on the day of, or the day after referral	90%	90.8	Yes	69.9	No
2. Time in unstable	Benchmark 2.1: Patients in the unstable phase for less than 7 days – first phase of episode	85%	97.6	Yes	75.5	No
phase	Benchmark 2.2: Patients in the unstable phase for less than 7 days - not first phase of episode	90%	96.6	Yes	87.6	No
	Benchmark 2.3: Median time patients are in the unstable phase	2 days	1 days	Yes	1 days	Yes
3. Change in pain	Benchmark 3.1: PCPSS: Patients with absent/mild pain at phase start, remaining absent/mild at phase end	90%	88.8	No	80.6	No
	Benchmark 3.2: PCPSS: Patients with moderate/severe pain at phase start, with absent/mild pain at phase end	60%	43.1	No	56.3	No
	Benchmark 3.3: SAS: Patients with absent/mild pain at phase start, remaining absent/mild at phase end	90%	85.3	No	83.9	No
	Benchmark 3.4: SAS: Patients with moderate/severe pain at phase start, with absent/mild pain at phase end	60%	44.3	No	39.9	No

Table 6 Summary of outcome measure 4: Average improvement on the 2008 baseline national average (X-CAS)

Clinical Tool	Description	Average improvement on baseline	Benchmark met?
PCPSS	Benchmark 4.1: Pain	0.16	Yes
	Benchmark 4.2: Other symptoms	0.31	Yes
	Benchmark 4.3: Family/carer	0.28	Yes
	Benchmark 4.4: Psychological/spiritual	0.20	Yes
SAS	Benchmark 4.5: Pain	0.22	Yes
	Benchmark 4.6: Nausea	0.23	Yes
	Benchmark 4.7: Breathing problems	0.37	Yes
	Benchmark 4.8: Bowel problems	0.35	Yes

→ The benchmark for measure 4 is zero.

For more information on the outcome measures and benchmarks, see Section 3 and Appendix B



2.2 National benchmark profiles

In this section, the national profiles for selected benchmarks are split by setting (inpatient and ambulatory & community) and presented graphically.

The selected benchmarks included are:

Benchmark 1 Patients contacted on the day of, or the day after referral
 Benchmark 2.1 Patients in the unstable phase for less than 7 days – first phase of episode
 Benchmark 2.2 Patients in the unstable phase for less than 7 days - not first phase of episode
 Benchmark 3.3 SAS: Patients with absent/mild pain at phase start, remaining absent/mild pain at phase end
 SAS: Patients with moderate/severe pain at phase start, with absent/mild pain at phase end

The national profile graphs below allow a comparison of the performance of WA services to other palliative care services participating in PCOC. In each graph, the shaded region describes the national profile for that outcome measure. WA services are highlighted as dots on the graph. If no dots are present on a particular graph, this means that no services in WA met the criteria for inclusion in this measure. This may be caused by insufficient data item completion, or not having any data falling into a particular category, for example, no phases starting with moderate/severe SAS pain. The red line on the graph indicates the benchmark for that measure.



Outcome measure 1 – Time from referral to first contact Benchmark 1

Figure 1 Percentage of patients contacted on the day of, or the day after referral – inpatient setting

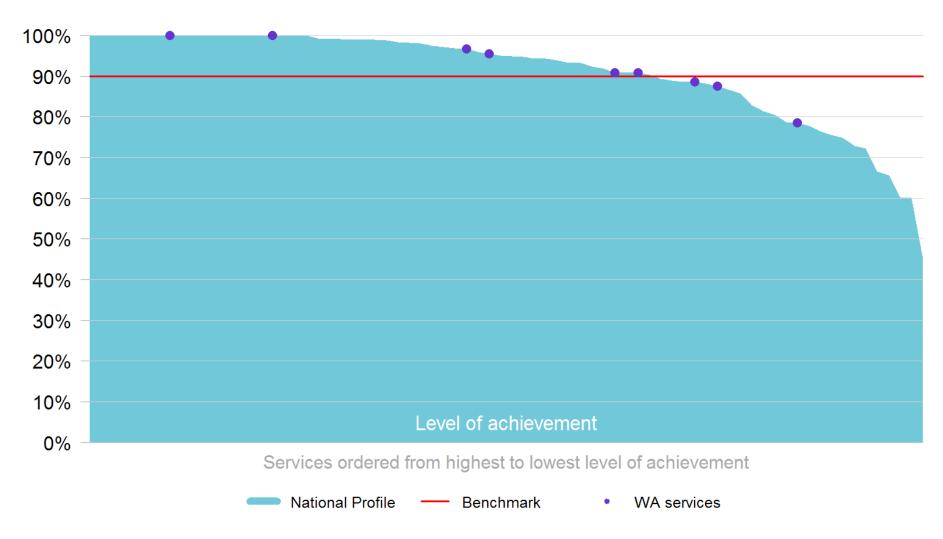




Figure 2 Percentage of patients contacted on the day of, or the day after referral – ambulatory & community settings





Outcome measure 2 – Time in unstable phase Benchmark 2.1

Figure 3 Percentage of patients in the unstable phase for less than 7 days - 1st phase of episode – inpatient setting

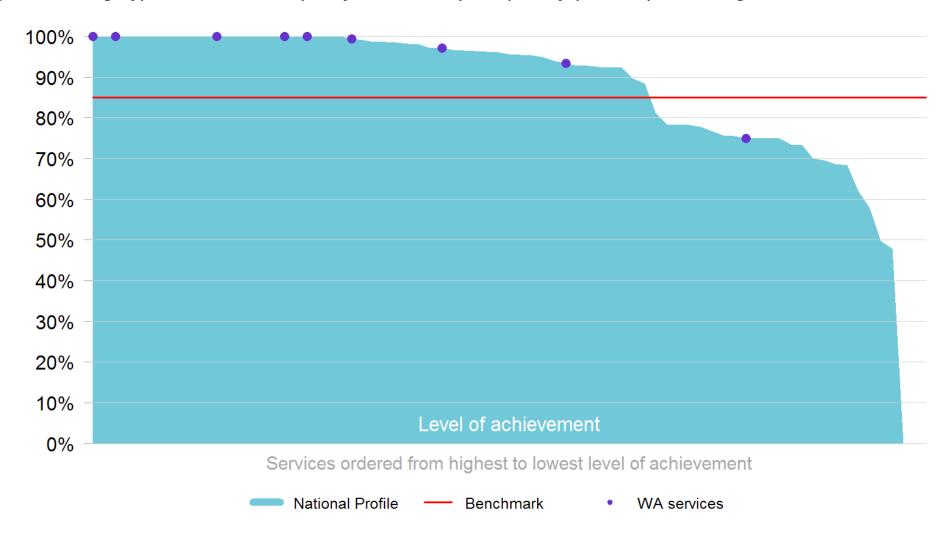




Figure 4 Percentage of patients in the unstable phase for less than 7 days - 1st phase of episode – ambulatory & community settings





Benchmark 2.2

Figure 5 Percentage of patients in the unstable phase for less than 7 days - not 1st phase of episode – inpatient setting

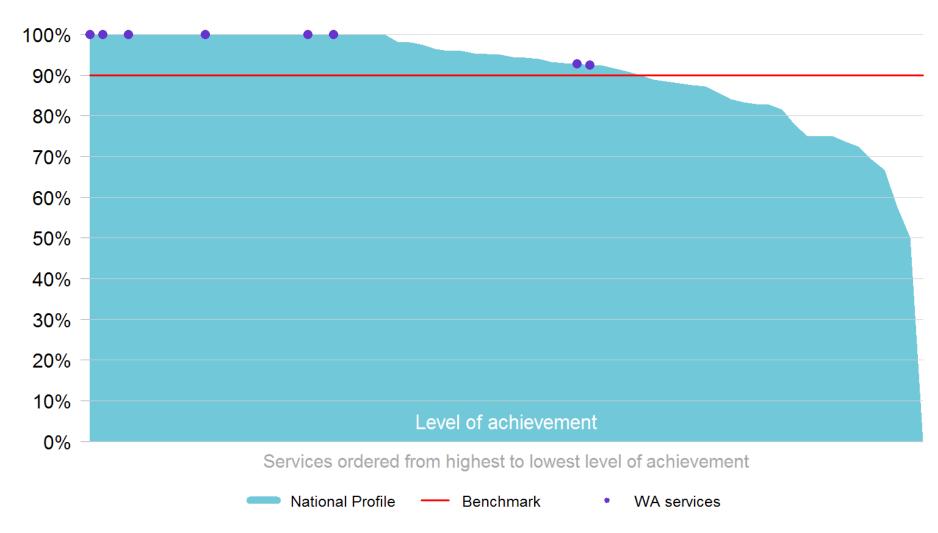
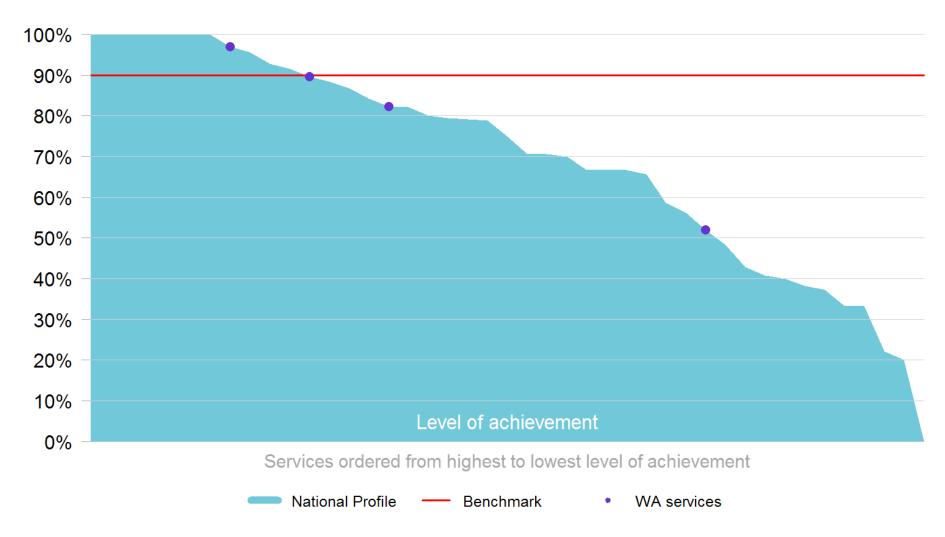




Figure 6 Percentage of patients in the unstable phase for less than 7 days - not 1st phase of episode – ambulatory & community settings





Outcome measure 3 – Change in pain (SAS pain) Benchmark 3.3

Figure 7 Percentage of patients with absent/mild pain at phase start, remaining absent/mild at phase end – inpatient setting

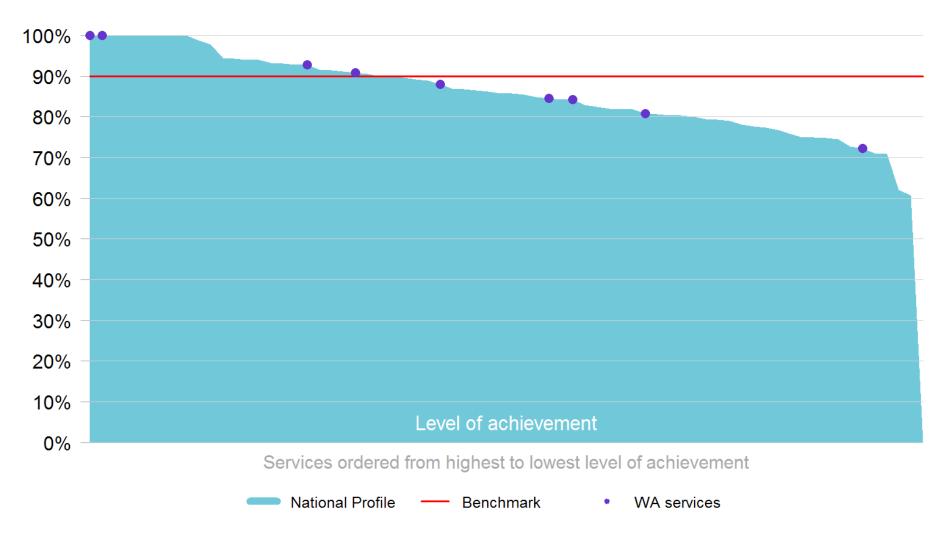




Figure 8 Percentage of patients with absent/mild pain at phase start, remaining absent/mild at phase end – ambulatory & community settings





Benchmark 3.4

Figure 9 Percentage of patients with moderate/severe pain at phase start, with absent/mild pain at phase end – inpatient setting

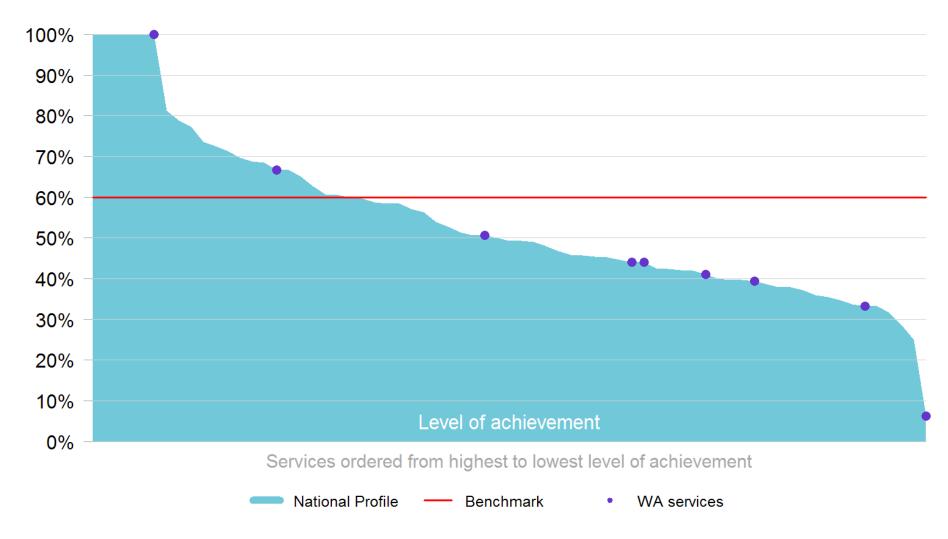
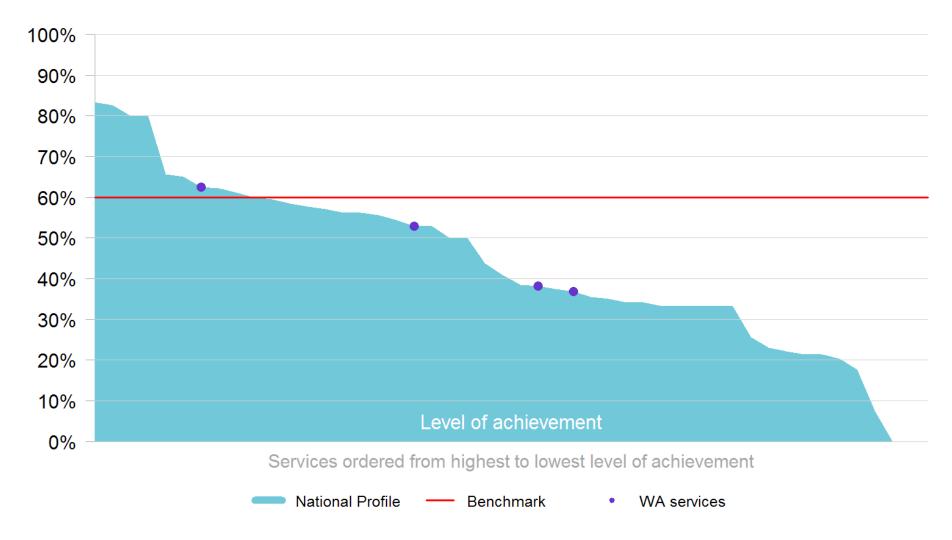




Figure 10 Percentage of patients with moderate/severe pain at phase start, with absent/mild pain at phase end – ambulatory & community settings





Section 3 - Outcome measures in detail

3.1 Outcome measure 1 – Time from referral to first contact

Time from referral to first contact reports responsiveness of palliative care services to patient needs. This benchmark was set after consultation with participants at the PCOC national benchmarking workshops in 2008. Participants acknowledged that, whilst there is wide variation in the delivery of palliative care across the country, access to palliative care should be measured based on patient need rather than service availability. As a result, services operating 5 days a week (Monday-Friday) are not distinguished from services operating 7 days a week (all services are being benchmarked together).

Benchmark 1:

This measure relates to the time taken for patients to be contacted and clinically assessed, once the palliative care team has received the patient's referral. To meet the benchmark for this measure, at least 90% of patients must be contacted on the same day of, or the following day of receipt of referral.

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

Table 7 Time from referral to first contact by setting

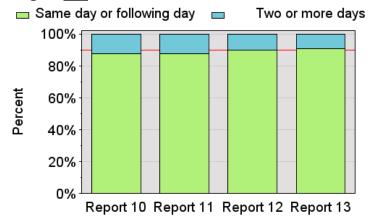
Time (in days)		tient		Ambulatory & community				
Time (in days)	WA	%	All Services	%	WA	%	All Services	%
Same day or following day	1,230	90.8	9,657	90.3	214	69.9	3,605	51.1
2-7 days	107	7.9	845	7.9	72	23.5	2,259	32.0
8-14 days	9	0.7	97	0.9	14	4.6	716	10.2
Greater than 14 days	9	0.7	101	0.9	6	2.0	471	6.7
Average	1.3	na	1.3	na	2.1	na	3.0	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 was greater than 7 days were considered to be atypical and were assumed to equal 7 days for the purpose of calculating the average and median time.

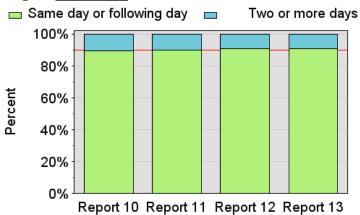


Figure 11 Trends in time from referral to first contact by setting

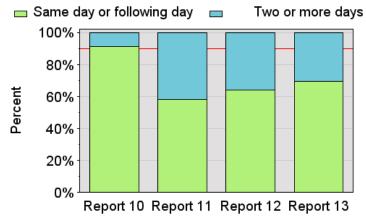
Inpatient setting for WA



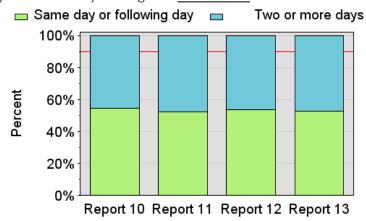
Inpatient setting for all services



Ambulatory & community settings for WA



Ambulatory & community settings for all services





3.2 Outcome measure 2 – Time in unstable phase

The unstable phase type, by nature of its definition, alerts clinical staff to the need for urgent changes to the patient's plan of care or that emergency intervention is required. Those patients assessed to be in the unstable phase require intense review for a short period of time. An unstable phase is triggered if:

- a patient experiences a new, unanticipated problem, and/or
- a patient experiences a rapid increase in the severity of an existing problem, and/or
- a patient's family/carers experience a sudden change in circumstances that adversely impacts the patients care

Unstable phases are ended in one of two ways:

- A new plan of care has been put in place, has been reviewed and does not require any additional changes. This does not necessarily mean that the symptom/crisis has been fully resolved. However, the clinical team will have a clear diagnosis and a plan for the patient's care. In this situation, the patient will move to either the stable or deteriorating phase
- The patient is likely to die within a matter of days. In this situation, the patient will be moved into the terminal phase

There are three benchmarks relating to the time in unstable phase measure:

- This benchmark relates to <u>unstable phases</u> that are the <u>first phase in a patient's episode</u> of care (for example, a patient is admitted to an inpatient palliative care unit and is immediately assessed as being in the unstable phase). To meet this benchmark, at least **85%** of these unstable phases must last for less than 7 days.
- This benchmark relates to <u>unstable phases</u> that are <u>not the first phase in a patient's episode</u> of care (for example, a patient's condition changes during an episode of care, and the patient's phase type is changed to unstable). To meet this benchmark, at least **90**% of these unstable phases must last for less than 7 days.
- Benchmark 2.3: This benchmark relates to <u>all unstable phases</u>, regardless of where they occur in a patient's episode of care. To meet this benchmark, the median length of all unstable phases must be **2 days or less**.

Table 8 presents descriptive data for these three benchmarks.



Table 8 Time in unstable phase by setting and occurrence in episode

Setting	Occurrence of unstable phase	Number of un	stable phases	Percent unstal	ole for < 7 days	Median days in unstable phase		
		WA	All Services	WA	All Services	WA	All Services	
	First phase of episode	503	5,046	97.6	85.5	1	2	
Inpatient	Not first phase of episode	204	2,275	96.6	90.2	1	2	
	Total unstable phases	707	7,321	97.3	86.9	1	2	
Anabadahama 0	First phase of episode	49	846	75.5	64.7	3	4	
Ambulatory & community	Not first phase of episode	170	1,141	87.6	70.7	1	2	
Community	Total unstable phases	219	1,987	84.9	68.1	1	3	

Interpretation hint:

For WA, 503 patients commenced their **inpatient episode** of care in the unstable phase. Of these unstable phases, 97.6% remained for less than 7 days. This was higher than the 85.5% seen across all participating services.

For WA, 49 patients commenced their **ambulatory/community episode** of care in the unstable phase. Of these unstable phases, 75.5% remained for less than 7 days. This was **higher** than the 64.7% seen across all participating services.



3.3 Outcome measure 3 – Change in pain

Pain management is acknowledged as a core business of palliative care services. The Palliative Care Problem Severity Score (PCPSS) and Symptom Assessment Scale (SAS) provide two different perspectives of pain: the SAS is patient rated, while the PCPSS is clinician rated. There are two benchmarks related to each tool: one relating to the management of pain for patients with absent or mild pain, and the other relating to the management of pain for patients with moderate or severe pain. The PCPSS is rated from 0 to 3 (absent, mild, moderate and severe) whereas the SAS is rated on a scale of 0 to 10 (0 = absent and 10 = the worst possible). For the analysis in this report SAS scores have been grouped as 1-3 mild, 4-7 moderate and 8-10 severe.

Phase records must have valid start and end scores for the PCPSS and/or SAS clinical assessment tools to be included in the benchmarks.

Benchmark 3.1:

This benchmark relates to patients who have absent or mild pain at the start of their phase of palliative care, as rated via the PCPSS clinical tool. To meet this benchmark, 90% of these phases must end with the patient still experiencing only absent or mild pain. Table 9 shows trends in this benchmark over the last four reports.

Table 9 Trends in Benchmark 3.1: Patients with absent/mild pain at phase start, remaining absent/mild at phase end (PCPSS) by setting

Setting			W	/A		All Services			
Setting		Report 10	Report 11	Report 12	Report 13*	Report 10	Report 11	Report 12	Report 13*
lan attant	Number	293	291	277	740	3,969	5,153	5,577	7,362
Inpatient	%	77.7	84.8	81.7	88.8	79.0	82.1	81.6	86.2
Ambulatory &	Number	180	77	135	228	2,415	2,176	2,339	3,276
community	%	67.4	67.0	74.2	80.6	74.9	75.1	77.5	80.0

Benchmark 3.2:

This benchmark relates to patients who have moderate or severe pain at the start of their phase of palliative care, as rated via the PCPSS clinical tool. To meet this benchmark, 60% of these phases must end with the patient's pain reduced to being absent or mild. Table 10 shows trends in this benchmark over the last four reports.

Table 10 Trends in Benchmark 3.2: Patients with moderate/severe pain at phase start, with absent/mild pain at phase end (PCPSS) by setting

Setting		WA				All Services			
		Report 10	Report 11	Report 12	Report 13*	Report 10	Report 11	Report 12	Report 13*
Inpatient	Number	147	127	136	190	1,655	1,858	1,986	2,220
	%	53.6	51.0	54.8	43.1	46.6	48.0	53.6	51.1
Ambulatory & community	Number	93	36	54	45	806	646	697	742
	%	53.8	48.6	52.9	56.3	57.5	57.3	55.4	48.3



Benchmark 3.3:

This benchmark relates to patients who have absent or mild pain at the start of their phase of palliative care, as rated via the SAS clinical tool. To meet this benchmark, 90% of these phases must end with the patient still experiencing only absent or mild pain. Table 11 shows trends in this benchmark over the last four reports.

Table 11 Trends in Benchmark 3.3: Patients with absent/mild pain at phase start, remaining absent/mild at phase end (SAS) by setting

Setting		WA				All Services			
		Report 10	Report 11	Report 12	Report 13*	Report 10	Report 11	Report 12	Report 13*
Inpatient	Number	492	670	652	1,133	4,672	5,902	6,476	8,179
	%	79.2	80.9	78.6	85.3	78.8	81.8	82.5	84.5
Ambulatory & community	Number	724	461	653	1,116	2,825	2,566	2,816	4,112
	%	80.2	78.8	80.4	83.9	76.4	76.8	78.1	80.9

Benchmark 3.4:

This benchmark relates to patients who have moderate or severe pain at the start of their phase of palliative care, as rated via the SAS clinical tool. To meet this benchmark, 60% of these phases must end with the patient's pain reduced to being absent or mild. Table 12 shows trends in this benchmark over the last four reports.

Table 12 Trends in Benchmark 3.4: Patients with moderate/severe pain at phase start, with absent/mild pain at phase end (SAS) by setting

Setting		WA				All Services			
		Report 10	Report 11	Report 12	Report 13*	Report 10	Report 11	Report 12	Report 13*
Inpatient	Number	229	312	317	387	1,912	2,159	2,216	2,789
	%	43.6	43.5	46.5	44.3	45.7	46.4	49.6	47.9
Ambulatory & community	Number	177	114	152	186	846	708	787	911
	%	54.8	52.1	63.1	39.9	55.3	57.0	56.2	45.1

^{*} Following a review of the quality of the data submitted to PCOC for January – June 2012, an improvement has been made to the calculation of the Change in Pain outcome measure. The new calculation includes situations where episodes (and hence phases) end due to discharge or a change in the setting/type of care, where the SAS and PCPSS pain assessments have been provided to PCOC. Services may notice a change in their benchmark scores for this report, and should be cautious when comparing to scores from previous reports.



Figure 12 Trends in outcome measure 3

Benchmark 3.1: Absent/mild pain at both start and end of phase (using PCPSS)



Benchmark 3.2: Mod/severe pain at start with absent/mild pain at end (using PCPSS)



Benchmark 3.3: Absent/mild pain at both start and end of phase (using SAS)



Benchmark 3.4: Mod/severe pain at start with absent/mild pain at end (using SAS)





3.4 Outcome 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 in this report:

PCPSS	SAS
4.1 Pain	4.5 Pain
4.2 Other symptoms	4.6 Nausea
4.3 Family/carer	4.7 Breathing problems
4.4 Psychological/spiritual	4.8 Bowel problems

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.

Interpretation hint:

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

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

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

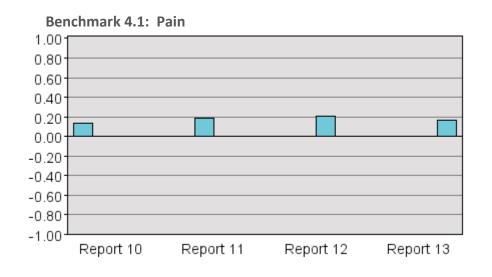
If X-CAS for WA is <u>less than 0</u> then on average, patients' change in symptom was <u>worse than similar patients</u> in the baseline reference period.

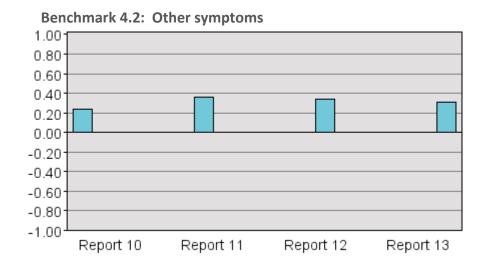
As the X-CAS measures look at change in symptom, they are only able to be calculated on phases which ended in phase change or discharge (as the phase end scores are required to determine the change). Bereavement phases are excluded from the analysis.

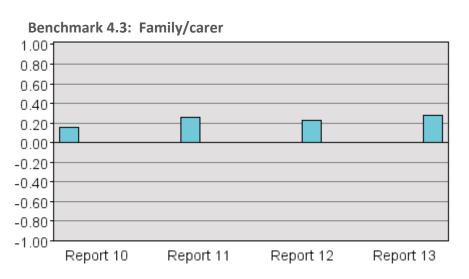
A more technical explanation of X-CAS is included in Appendix B.



Figure 13 Trends in outcome measure 4 – Palliative Care Problem Severity Score (PCPSS)







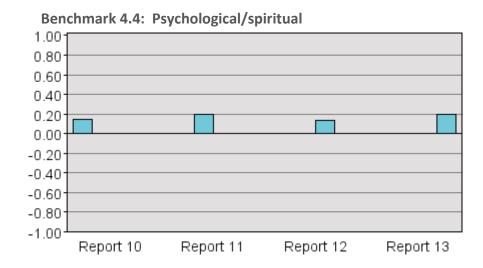
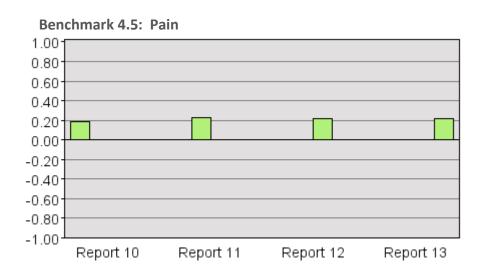
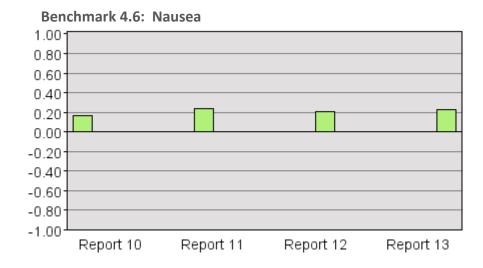
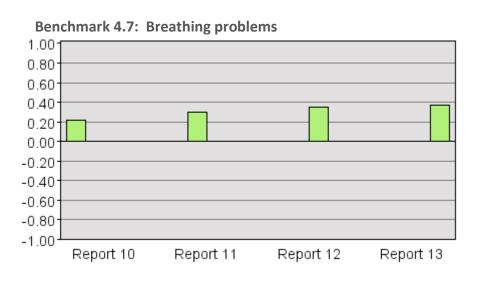


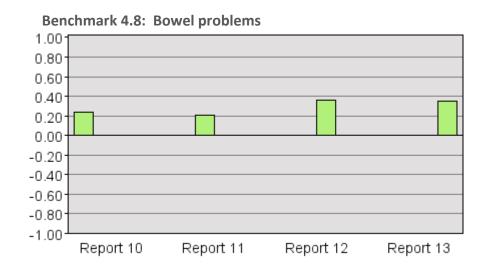


Figure 14 Trends in outcome measure 4 – Symptom Assessment Scale (SAS)











Section 4 - 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 other 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.



4.1 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 13 shows the Indigenous status for all patients in WA 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 13 Indigenous status

Indigenous status	WA	%	All Services	%
Aboriginal but not Torres Strait Islander origin	31	1.4	137	0.9
Torres Strait Islander but not Aboriginal origin	2	0.1	15	0.1
Both Aboriginal and Torres Strait Islander origin	3	0.1	15	0.1
Neither Aboriginal nor Torres Strait Islander origin	2,076	93.6	14,732	95.0
Not stated/inadequately described	105	4.7	606	3.9
Total	2,217	100.0	15,505	100.0



The following two tables show the main language spoken at home and the country of birth respectively for all patients in WA and nationally. To allow for comparison with the broader Australian community the list of languages in Table 14 is in descending order of the most frequently spoken languages according to the 2006 Census (e.g. Greek was the third most frequently spoken language in the 2006 Census). The same approach has been taken with Table 15 (e.g. Italy was the third highest country of birth in the 2006 Census). All other languages and countries have been grouped together to form the categories *All other languages* and *All other countries* respectively.

Table 14 Main language spoken at home

Main language spoken at home	WA	%	All Services	%
English	1,946	87.8	13,181	85.0
Italian	42	1.9	268	1.7
Greek	8	0.4	194	1.3
Cantonese	6	0.3	80	0.5
Arabic (including Lebanese)	0	0.0	59	0.4
Mandarin	3	0.1	63	0.4
Vietnamese	6	0.3	69	0.4
Spanish	7	0.3	45	0.3
German	2	0.1	15	0.1
Hindi	1	0.0	6	0.0
Macedonian	3	0.1	54	0.3
Croatian	8	0.4	52	0.3
Korean	0	0.0	10	0.1
Turkish	0	0.0	15	0.1
Polish	14	0.6	45	0.3
All other languages	63	2.8	322	2.1
Not stated/inadequately described	108	4.9	1,027	6.6
Total	2,217	100.0	15,505	100.0



Table 15 Country of birth

Country of birth	WA	%	All Services	%
Australia	1,178	53.1	9,768	63.0
England	362	16.3	1,124	7.2
Italy	41	1.8	249	1.6
Scotland	4	0.2	145	0.9
New Zealand	95	4.3	572	3.7
Greece	10	0.5	95	0.6
Netherlands	34	1.5	92	0.6
Germany	47	2.1	200	1.3
China	2	0.1	38	0.2
Poland	11	0.5	327	2.1
Malta	24	1.1	205	1.3
Croatia	19	0.9	60	0.4
Ireland	16	0.7	40	0.3
India	30	1.4	168	1.1
Vietnam	1	0.0	68	0.4
All other countries	186	8.4	1,635	10.5
Not stated/inadequately described	157	7.1	719	4.6
Total	2,217	100.0	15,505	100.0

Table 16 on the following page presents a breakdown of malignant and non-malignant diagnosis.



Table 16 Primary diagnosis

Diagnosis category	Primary diagnosis	WA	% of category	% of total	All Services	% of category	% of total
Malignant	Bone and soft tissue	8	0.5	0.4	238	1.9	1.5
	Breast	90	5.6	4.1	958	7.8	6.2
	CNS	7	0.4	0.3	194	1.6	1.3
	Colorectal	114	7.1	5.1	1,370	11.2	8.8
	Gynaecological	36	2.2	1.6	585	4.8	3.8
	Haematological	54	3.4	2.4	623	5.1	4.0
	Head and neck	71	4.4	3.2	671	5.5	4.3
	Lung	204	12.7	9.2	2,470	20.1	15.9
	Pancreas	56	3.5	2.5	767	6.2	4.9
	Prostate	66	4.1	3.0	794	6.5	5.1
	Skin	38	2.4	1.7	432	3.5	2.8
	Other GIT	86	5.4	3.9	995	8.1	6.4
	Other urological	31	1.9	1.4	442	3.6	2.9
	Other malignancy	39	2.4	1.8	724	5.9	4.7
	Unknown primary	30	1.9	1.4	338	2.8	2.2
	Malignant - not further defined	677	42.1	30.5	677	5.5	4.4
	All malignant	1,607	100.0	72.5	12,278	100.0	79.2
Non-malignant	Cardiovascular	85	17.9	3.8	555	20.3	3.6
	HIV/AIDS	1	0.2	0.0	4	0.1	0.0
	Kidney failure	36	7.6	1.6	290	10.6	1.9
	Neurological disease	97	20.5	4.4	558	20.4	3.6
	Respiratory failure	58	12.2	2.6	439	16.1	2.8
	Other non-malignancy	115	24.3	5.2	804	29.4	5.2
	Non-malignant - not further defined	82	17.3	3.7	82	3.0	0.5
	All non-malignant	474	100.0	21.4	2,732	100.0	17.6
Not Stated	-	136	100.0	6.1	495	100.0	3.2



4.2 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 inpatient or ambulatory and community patient.

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

Table 17 below presents the number and percentage of episodes by age group and gender for the patients in WA and at the national level. Age has been calculated as at the beginning of each episode.

Table 17 Age group by gender

Ago group		W	/A		All Services				
Age group	Male	%	Female	%	Male	%	Female	%	
< 15	1	0.1	8	0.7	40	0.4	44	0.5	
15-24	4	0.3	5	0.4	31	0.3	28	0.3	
25-34	5	0.3	2	0.2	48	0.5	68	0.8	
35-44	59	3.8	53	4.3	245	2.4	272	3.1	
45-54	103	6.6	130	10.6	630	6.1	800	9.0	
55-64	302	19.5	164	13.4	1,822	17.8	1,645	18.5	
65-74	373	24.0	224	18.3	2,761	26.9	1,995	22.5	
75-84	469	30.2	351	28.7	3,160	30.8	2,335	26.3	
85+	236	15.2	285	23.3	1,517	14.8	1,699	19.1	
Not stated/inadequately described	0	0.0	0	0.0	1	0.0	0	0.0	
Total	1,552	100.0	1,222	100.0	10,255	100.0	8,886	100.0	

Note: Records where gender was not stated or inadequately described are excluded from the table.



Referral source refers to the service or organisation from which the patient was referred for each episode of care. Table 18 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 18 Referral source by setting

Deferred course		Inpa	ntient		ı	Ambulatory	& community	
Referral source	WA	%	All Services	%	WA	%	All Services	%
Public hospital - other than inpatient palliative care unit	766	56.3	5,063	46.1	540	38.2	3,531	43.2
Self, carer(s), family or friends	5	0.4	323	2.9	2	0.1	235	2.9
Private hospital - other than inpatient palliative care unit	49	3.6	714	6.5	201	14.2	1,349	16.5
Public palliative care inpatient unit/hospice	6	0.4	220	2.0	11	0.8	322	3.9
Private palliative care inpatient unit/hospice	27	2.0	83	0.8	17	1.2	114	1.4
General medical practitioner	93	6.8	537	4.9	507	35.9	1,166	14.3
Specialist medical practitioner	38	2.8	567	5.2	6	0.4	588	7.2
Community-based palliative care agency	301	22.1	2,225	20.3	2	0.1	151	1.8
Community-based service	42	3.1	461	4.2	5	0.4	193	2.4
Residential aged care facility	5	0.4	75	0.7	79	5.6	265	3.2
Other	16	1.2	99	0.9	41	2.9	169	2.1
Not stated/inadequately described	13	1.0	616	5.6	2	0.1	91	1.1
Total	1,361	100.0	10,983	100.0	1,413	100.0	8,174	100.0

Table 19 Place of death – ambulatory & community setting

Place of death	WA	%	All Services	%
Private residence	364	86.3	1,237	53.1
Residential aged care setting	43	10.2	449	19.3
Other location*	2	0.5	452	19.4
Not stated/inadequately described	13	3.1	190	8.2
Total	422	100.0	2,328	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 20 gives a summary of the length of episode for patients in WA and nationally. Table 21 details the length of episode by setting. The length of episode is calculated as the number of days between the episode start date and the episode end date. Bereavement phases are excluded from the calculation and episodes that remain open at the end of the reporting period (and hence do not have an episode end date) are also excluded.

Table 20 Length of episode summary by setting

Length of episode	Inpat	tient	Ambulatory & community			
	WA	All Services	WA	All Services		
Average length of episode	9.3	11.9	26.4	34.7		
Median length of episode	5.0	7.0	17.0	22.0		

Note: Records where length of episode was greater than 180 days were considered to be atypical and are excluded from the average calculations.

Table 21 Length of episode by setting

Longth of onicodo		Inpa	tient		Ambulatory & community				
Length of episode	WA	%	All Services	%	WA	%	All Services	%	
Same day	103	7.8	389	3.7	68	5.6	713	9.4	
1-2 days	311	23.5	2,047	19.4	94	7.7	529	7.0	
3-4 days	197	14.9	1,497	14.2	97	7.9	418	5.5	
5-7 days	211	15.9	1,730	16.4	116	9.5	570	7.5	
8-14 days	235	17.7	2,120	20.1	195	15.9	896	11.9	
15-21 days	126	9.5	1,067	10.1	132	10.8	612	8.1	
22-30 days	67	5.1	742	7.0	141	11.5	631	8.4	
31-60 days	60	4.5	742	7.0	221	18.1	1,194	15.8	
61-90 days	7	0.5	125	1.2	86	7.0	643	8.5	
Greater than 90 days	7	0.5	83	0.8	73	6.0	1,348	17.8	
Total	1,324	100.0	10,542	100.0	1,223	100.0	7,554	100.0	



4.3 Profile of palliative care phases

The palliative care phase type describes the stage of the patient's illness and provides a clinical indication of the level of care a patient requires. There are five palliative care phase types; stable, unstable, deteriorating, terminal and bereaved. The stable, unstable, deteriorating and terminal phase types can occur in any sequence and a patient may move back and forth between them.

Table 22 Number of phases by phase type and setting

Dhaca tuna		Inpa	tient		Ambulatory & community					
Phase type	WA	%	All Services	%	WA	%	All Services	%		
Stable	892	26.7	6,797	24.4	425	17.2	5,193	36.7		
Unstable	707	21.2	7,321	26.3	219	8.9	1,987	14.1		
Deteriorating	980	29.4	7,634	27.4	1,382	56.0	5,421	38.4		
Terminal	528	15.8	4,480	16.1	417	16.9	1,373	9.7		
Bereaved	232	6.9	1,582	5.7	23	0.9	159	1.1		
All phases	3,339	100.0	27,814	100.0	2,466	100.0	14,133	100.0		

Table 23 Average phase length (in days) by phase type and setting

Phase type	Inpa	tient	Ambulatory & community			
Phase type	WA	All Services	WA	All Services		
Stable	6.2	7.5	14.5	23.2		
Unstable	1.7	3.6	3.7	8.0		
Deteriorating	4.5	5.5	19.8	16.2		
Terminal	2.5	2.2	2.3	3.1		
Bereaved	1.1	1.2	4.2	3.0		

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



Table 24 presents information relating to the manner in which stable phases ended, both for WA and nationally. A stable phase will end if a patient moves into a different phase (phase change), is discharged or dies. Figure 15 and Figure 16 summarise the movement of patients out of the stable phase for the inpatient and ambulatory & community settings. This movement from one phase to another is referred to as phase progression. The phase progression information is derived by PCOC. The "Unknown" category has been included to account for situations where subsequent phase records have not been submitted to PCOC, meaning the phase progression cannot be determined.

Similar information is presented for the unstable, deteriorating and terminal phases on the following pages.

Table 24 How stable phases end - by setting

Phase end reason		Inpa	tient		Ambulatory & community				
	WA	%	All Services	%	WA	%	All Services	%	
Phase change (see figures below)	528	59.2	3,986	58.6	347	81.6	3,062	59.0	
Discharge/case closure	358	40.1	2,651	39.0	72	16.9	1,704	32.8	
Died	6	0.7	151	2.2	4	0.9	401	7.7	
Bereavement phase end	0	0.0	5	0.1	0	0.0	4	0.1	
Not stated/inadequately described	0	0.0	4	0.1	2	0.5	22	0.4	
Total	892	100.0	6,797	100.0	425	100.0	5,193	100.0	

Figure 15 Stable phase progression – inpatient setting

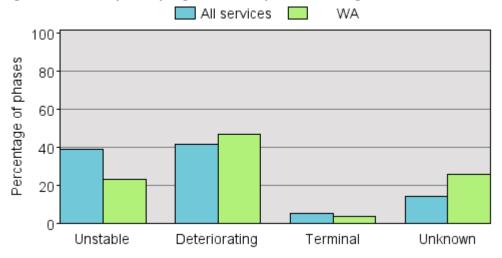


Figure 16 Stable phase progression – ambulatory & community settings

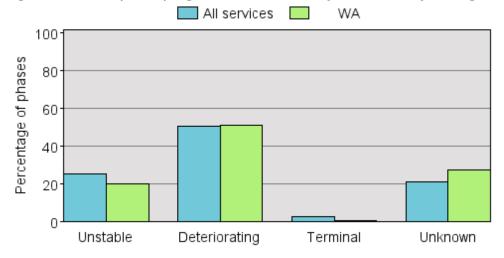




Table 25 How <u>unstable</u> phases end – by setting

Phase end reason		Inpa	ntient		Ambulatory & community				
	WA	%	All Services	%	WA	%	All Services	%	
Phase change (see figures below)	650	91.9	6,498	88.8	169	77.2	1,323	66.6	
Discharge/case closure	34	4.8	483	6.6	42	19.2	557	28.0	
Died	21	3.0	296	4.0	8	3.7	101	5.1	
Bereavement phase end	2	0.3	14	0.2	0	0.0	1	0.1	
Not stated/inadequately described	0	0.0	30	0.4	0	0.0	5	0.3	
Total	707	100.0	7,321	100.0	219	100.0	1,987	100.0	

Figure 17 Unstable phase progression – inpatient setting

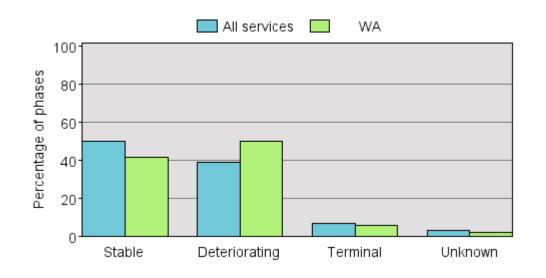


Figure 18 Unstable phase progression – ambulatory & community settings

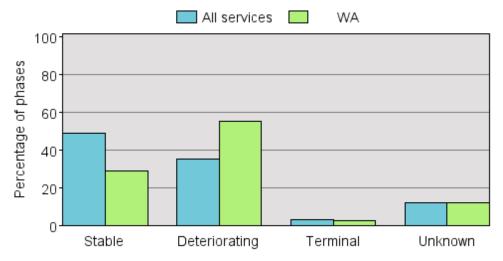




Table 26 How <u>deteriorating</u> phases end – by setting

Phase end reason		Inpa	tient		Ambulatory & community				
	WA	%	All Services	%	WA	%	All Services	%	
Phase change (see figures below)	723	73.8	5,211	68.3	762	55.1	2,577	47.5	
Discharge/case closure	177	18.1	1,178	15.4	536	38.8	2,043	37.7	
Died	75	7.7	1,185	15.5	84	6.1	792	14.6	
Bereavement phase end	4	0.4	40	0.5	0	0.0	2	0.0	
Not stated/inadequately described	1	0.1	20	0.3	0	0.0	7	0.1	
Total	980	100.0	7,634	100.0	1,382	100.0	5,421	100.0	

Figure 19 Deteriorating phase progression – inpatient setting



Figure 20 Deteriorating phase progression – ambulatory & community settings

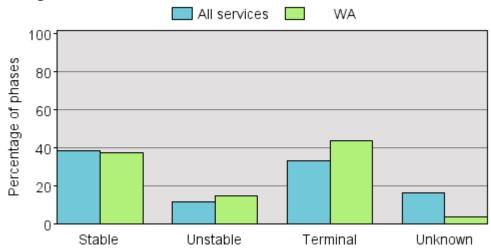




Table 27 How <u>terminal</u> phases end – by setting

Dhaca and racean		Inpa	tient		Ambulatory & community				
Phase end reason	WA	%	All Services	%	WA	%	All Services	%	
Phase change (see figures below)	106	20.1	519	11.6	93	22.3	293	21.3	
Discharge/case closure	32	6.1	95	2.1	24	5.8	157	11.4	
Died	385	72.9	3,720	83.0	299	71.7	917	66.8	
Bereavement phase end	4	0.8	135	3.0	0	0.0	2	0.1	
Not stated/inadequately described	1	0.2	11	0.2	1	0.2	4	0.3	
Total	528	100.0	4,480	100.0	417	100.0	1,373	100.0	

Figure 21 Terminal phase progression – inpatient setting

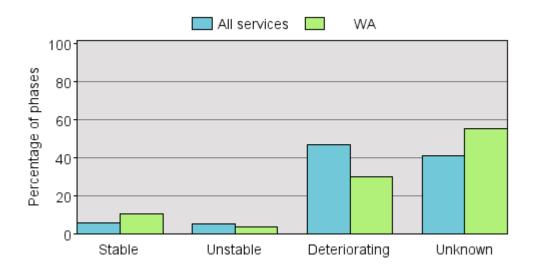


Figure 22 Terminal phase progression – ambulatory & community settings





The Palliative Care Problem Severity Score (PCPSS) is a 'clinician rated' screening tool to assess the overall degree of problems within four key palliative care domains (pain, other symptoms, psychological/spiritual and family/carer). The ratings are: 0 = absent, 1 = mild, 3 = moderate and 4 = severe. The use of this tool provides an opportunity to assist in the need or urgency of intervention e.g. a score of severe in the family/carer domain could trigger a more detailed assessment by a skilled social worker or pastoral care worker to establish appropriate treatment or intervention.

Tables 28 and 29 show the percentage scores for the inpatient and ambulatory and community settings respectively for both WA and nationally.

Table 28 Profile of PC Problem Severity scores at beginning of phase by phase type – inpatient setting (percentages)

Dhoos ture			V	/A		All Services				
Phase type	Problem severity	Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe	
Stable	Pain	39.0	41.6	16.0	3.3	44.0	38.5	14.1	3.5	
	Other symptoms	17.2	50.3	27.3	5.3	21.7	44.0	26.2	8.1	
	Psychological/spiritual	20.0	60.4	16.8	2.8	27.5	47.5	18.7	6.3	
	Family/carer	50.3	33.8	12.2	3.7	36.3	40.1	17.1	6.5	
Unstable	Pain	15.5	26.6	34.8	23.1	25.5	29.0	30.1	15.5	
	Other symptoms	8.5	23.0	42.6	25.9	9.4	26.9	40.3	23.4	
	Psychological/spiritual	12.2	43.4	35.4	9.0	16.2	38.0	31.4	14.4	
	Family/carer	33.5	31.9	25.1	9.5	22.4	34.6	28.6	14.5	
Deteriorating	Pain	32.0	34.9	26.9	6.2	36.3	33.3	21.6	8.7	
	Other symptoms	9.4	27.8	46.4	16.4	13.1	30.7	36.1	20.0	
	Psychological/spiritual	17.3	48.4	28.7	5.6	21.7	40.6	25.8	11.9	
	Family/carer	41.1	27.1	24.7	7.1	25.3	33.9	26.4	14.5	
Terminal	Pain	51.9	27.1	15.1	5.8	44.9	29.7	17.0	8.4	
	Other symptoms	28.4	20.2	27.2	24.1	30.2	23.7	24.0	22.1	
	Psychological/spiritual	47.5	29.5	18.0	5.0	44.3	28.5	15.8	11.5	
	Family/carer	21.3	27.0	38.3	13.4	16.9	28.6	29.8	24.8	



Table 29 Profile of PC Problem Severity scores at beginning of phase by phase type – ambulatory and community settings (percentages)

Dhace tune			W	/A		All Services				
Phase type	Problem severity	Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe	
Stable	Pain	46.2	40.2	11.7	1.9	37.8	48.3	12.0	1.9	
	Other symptoms	19.9	48.1	22.6	9.4	14.1	55.3	27.2	3.4	
	Psychological/spiritual	27.0	46.8	19.9	6.4	24.0	53.2	19.2	3.6	
	Family/carer	33.7	35.6	21.0	9.7	22.7	47.0	24.5	5.8	
Unstable	Pain	21.2	31.3	31.3	16.2	15.9	30.7	34.2	19.2	
	Other symptoms	3.0	17.2	34.3	45.5	4.9	23.9	46.6	24.6	
	Psychological/spiritual	9.1	31.3	34.3	25.3	12.0	35.6	35.5	16.9	
	Family/carer	23.2	14.1	29.3	33.3	14.9	25.5	33.9	25.7	
Deteriorating	Pain	20.1	52.4	22.0	5.5	24.5	45.7	24.1	5.7	
	Other symptoms	8.6	38.7	38.0	14.7	5.4	34.1	47.6	12.9	
	Psychological/spiritual	16.5	42.1	27.4	14.0	15.7	45.6	30.6	8.1	
	Family/carer	32.9	23.2	27.4	16.5	12.3	33.9	40.7	13.1	
Terminal	Pain	21.1	57.9	18.4	2.6	32.3	43.1	19.7	4.9	
	Other symptoms	28.9	42.1	15.8	13.2	18.0	32.9	30.9	18.2	
	Psychological/spiritual	52.6	28.9	10.5	7.9	41.6	34.7	15.9	7.8	
	Family/carer	36.8	31.6	10.5	21.1	10.8	24.9	39.2	25.1	

The Symptom Assessment Scale (SAS) is a 'patient rated' assessment tool and reports a level of distress using a visual analogue scale from 0 = no problems to 10 = worst possible problems. The SAS reports on seven symptoms identified as the main cancer and palliative care problems (difficulty sleeping, appetite problems, nausea, bowel problems, breathing problems, fatigue and pain). It provides a clinical picture of these seven symptoms from the patients perspective e.g. a patient may rate their nausea at 8, hence an alert for further review. The SAS scores are grouped in tables 30 and 31 on the following pages using the same categories as the PCPSS i.e. absent (0), mild (1-3), moderate (4-7) and severe (8-10).



Table 30 Profile of Symptom Assessment Scale scores at beginning of phase by phase type – inpatient setting (percentages)

DI			W	/A		All Services				
Phase type	Symptom severity	Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe	
Stable	Insomnia	55.3	25.3	17.5	1.9	63.2	20.9	13.7	2.1	
	Appetite problems	43.8	25.6	24.7	5.9	47.5	23.0	24.4	5.1	
	Nausea	79.0	12.9	6.4	1.7	79.0	13.1	6.7	1.2	
	Bowel problems	50.6	26.5	18.8	4.0	57.7	23.2	15.4	3.7	
	Breathing problems	58.4	23.9	13.2	4.5	62.2	19.6	13.6	4.6	
	Fatigue	15.0	25.0	41.4	18.7	22.9	22.3	42.2	12.6	
	Pain	39.7	35.9	19.9	4.5	44.2	32.4	20.0	3.4	
Unstable	Insomnia	38.7	22.5	29.7	9.1	50.4	19.7	23.2	6.8	
	Appetite problems	32.6	18.5	33.2	15.7	32.8	19.7	33.5	14.0	
	Nausea	62.8	16.0	15.7	5.6	63.6	15.7	15.0	5.8	
	Bowel problems	39.8	23.3	26.0	10.8	44.6	22.6	23.7	9.1	
	Breathing problems	45.3	21.2	23.1	10.4	51.2	19.1	19.3	10.4	
	Fatigue	9.3	12.4	42.3	35.9	15.2	12.9	46.0	25.9	
	Pain	20.2	22.3	37.2	20.3	28.1	24.0	32.6	15.3	
Deteriorating	Insomnia	54.7	21.4	20.5	3.4	64.8	15.9	15.9	3.5	
	Appetite problems	43.4	19.3	26.6	10.6	43.6	17.0	26.1	13.3	
	Nausea	74.2	16.0	8.2	1.6	74.2	12.8	9.5	3.5	
	Bowel problems	49.3	22.4	22.6	5.7	53.2	19.9	20.6	6.3	
	Breathing problems	51.7	20.1	18.8	9.4	53.5	17.3	19.5	9.7	
	Fatigue	17.2	10.4	41.4	31.0	21.4	10.3	38.9	29.4	
	Pain	32.7	29.6	30.3	7.5	37.1	26.8	28.1	7.9	
Terminal	Insomnia	83.8	7.4	7.8	1.0	87.1	6.3	5.2	1.4	
	Appetite problems	85.1	4.0	5.5	5.3	82.6	4.3	5.4	7.8	
	Nausea	91.4	5.0	2.3	1.3	91.1	4.5	3.2	1.1	
	Bowel problems	79.8	7.4	8.6	4.2	78.2	9.3	8.8	3.7	
	Breathing problems	57.1	13.3	17.5	12.0	61.4	13.3	15.0	10.3	
	Fatigue	65.6	3.2	10.5	20.6	64.6	4.5	10.3	20.6	
	Pain	49.1	21.7	23.2	5.9	54.3	20.2	20.3	5.2	



Table 31 Profile of Symptom Assessment Scale scores at beginning of phase by phase type – ambulatory and community settings (percentages)

Dhana kuma	lic of Symptom Assessm			/A		All Services				
Phase type	Symptom severity	Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe	
Stable	Insomnia	63.2	22.0	12.2	2.6	51.1	34.0	13.3	1.6	
	Appetite problems	58.3	21.9	16.7	3.1	32.8	37.9	25.7	3.6	
	Nausea	87.6	10.5	1.9	0.0	74.2	20.3	5.1	0.5	
	Bowel problems	69.1	20.4	9.3	1.2	56.3	31.7	10.7	1.3	
	Breathing problems	59.4	29.5	9.7	1.4	50.8	33.9	13.2	2.0	
	Fatigue	17.1	28.1	40.7	14.0	10.0	33.0	48.0	9.0	
	Pain	55.0	31.0	12.8	1.2	38.9	44.7	14.9	1.5	
Unstable	Insomnia	49.5	16.5	26.5	7.5	34.8	33.1	25.7	6.4	
	Appetite problems	31.8	22.1	31.8	14.4	20.0	26.4	41.5	12.2	
	Nausea	67.9	11.5	12.4	8.1	54.8	23.2	16.0	6.0	
	Bowel problems	58.7	19.9	14.9	6.5	40.5	33.8	20.1	5.6	
	Breathing problems	41.1	28.0	21.5	9.3	43.2	29.6	22.2	5.0	
	Fatigue	7.3	7.8	45.6	39.3	5.8	12.8	59.3	22.1	
	Pain	26.7	21.7	30.9	20.7	17.2	30.4	36.7	15.7	
Deteriorating	Insomnia	64.0	15.9	17.0	3.1	48.5	30.3	18.5	2.7	
	Appetite problems	46.1	17.0	26.6	10.3	25.9	28.6	34.5	11.1	
	Nausea	77.1	14.8	6.8	1.3	66.9	22.2	9.4	1.6	
	Bowel problems	67.9	19.1	11.0	2.1	50.9	30.3	16.0	2.8	
	Breathing problems	50.3	26.3	20.0	3.4	40.7	31.8	22.9	4.7	
	Fatigue	9.4	14.4	51.6	24.6	7.3	14.6	55.0	23.0	
	Pain	43.9	29.5	22.2	4.4	30.5	39.4	26.4	3.7	
Terminal	Insomnia	80.6	7.7	8.3	3.4	75.9	12.3	8.9	2.8	
	Appetite problems	74.4	0.8	7.0	17.8	60.2	5.6	10.8	23.4	
	Nausea	93.6	4.1	2.0	0.3	86.1	9.7	3.3	0.8	
	Bowel problems	87.3	5.6	5.2	2.0	69.9	18.6	9.0	2.4	
	Breathing problems	56.8	22.3	15.0	5.8	49.4	22.9	20.5	7.2	
	Fatigue	43.6	0.3	9.7	46.4	38.0	2.7	13.1	46.3	
	Pain	56.8	21.3	18.0	3.9	43.0	35.5	18.2	3.3	



The RUG-ADL consists of four items (bed mobility, toileting, transfers and eating) and assesses the level of functional dependence, based on what a person actually does, rather than what they are capable of doing. The RUG-ADL should be assessed on admission, at phase change and at episode end. The figures on the following two pages summarise the total RUG-ADL at the beginning of each phase for inpatients and ambulatory and community patients. The total score on the RUG-ADL ranges from a minimum of 4 (lowest level of functional dependency) to a maximum of 18 (highest level of functional dependency).

The Australia-modified Karnofsky Performance Status (AKPS) is a measure of the patient's overall performance status or ability to perform their activities of daily living. It is a single score between 0 and 100 assigned by a clinician based on observations of a patient's ability to perform common tasks relating to activity, work and self-care. A score of 100 signifies normal physical abilities with no evidence of disease. Decreasing numbers indicate a reduced performance status. The AKPS is often used in assessment of prognosis and is applicable to both inpatient and community palliative care. Table 32 shows the data for the AKPS at phase start.

AKPS & 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 32 Australia-modified Karnofsky Performance Status (AKPS) at phase start by setting

AVDC accoment		Inpatient Ambulatory & c					& community	
AKPS assessment	WA	%	All Services	%	WA	%	All Services	%
10 - Comatose or barely rousable	267	8.6	2,635	10.1	175	7.4	654	4.7
20 - Totally bedfast and requiring extensive nursing care	568	18.3	5,324	20.4	273	11.5	1,350	9.7
30 - Almost completely bedfast	363	11.7	3,236	12.4	145	6.1	884	6.4
40 - In bed more than 50% of the time	522	16.8	4,486	17.2	184	7.7	1,620	11.7
50 - Requires considerable assistance	654	21.1	4,669	17.9	364	15.3	3,399	24.4
60 - Requires occasional assistance	493	15.9	3,251	12.4	572	24.0	3,130	22.5
70 - Cares for self	163	5.2	882	3.4	482	20.3	1,801	13.0
80 - Normal activity with effort	52	1.7	252	1.0	129	5.4	579	4.2
90 - Able to carry on normal activity; minor signs or symptoms	11	0.4	64	0.2	39	1.6	166	1.2
100 - Normal; no complaints; no evidence of disease	0	0.0	4	0.0	4	0.2	6	0.0
Not stated/inadequately described	13	0.4	1,328	5.1	13	0.5	316	2.3
Total	3,106	100.0	26,131	100.0	2,380	100.0	13,905	100.0



Figure 23 Total RUG-ADL at beginning of phase by phase type – inpatient setting

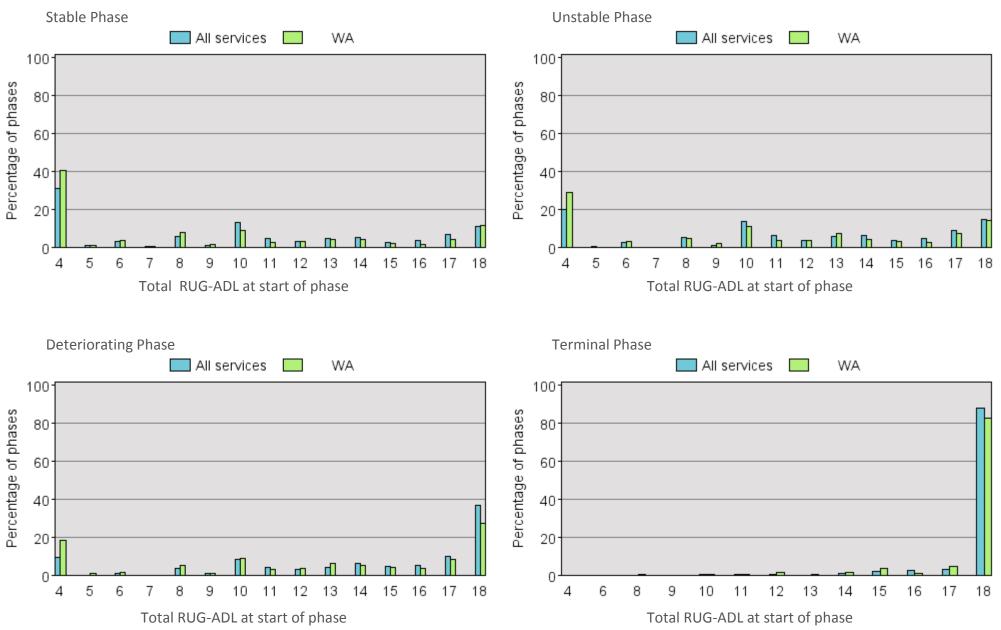
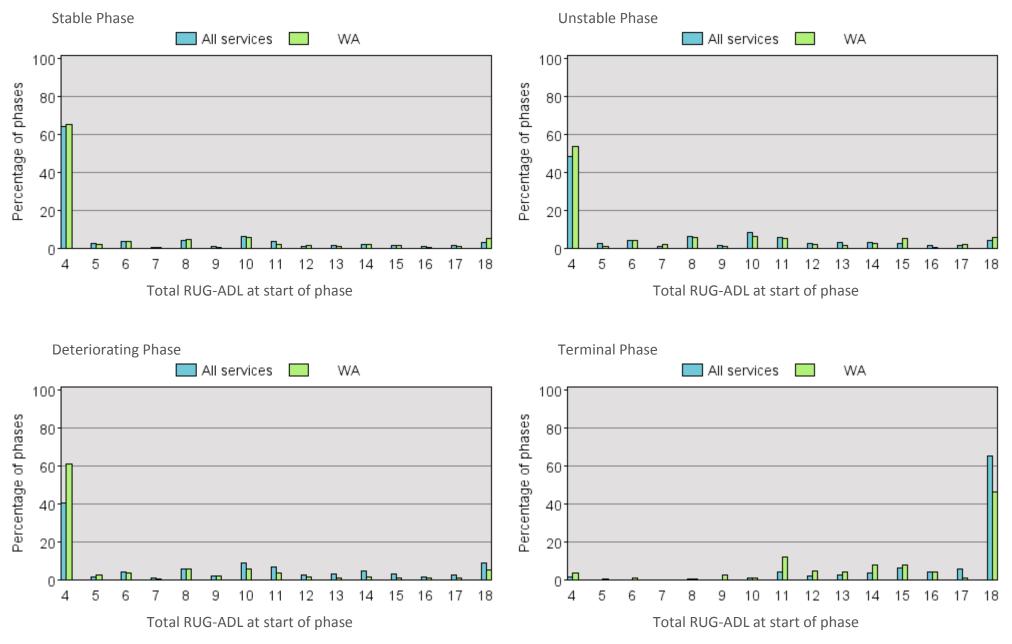




Figure 24 Total RUG-ADL at beginning of phase by phase type – ambulatory & community settings





Appendix A - Data scoping method

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 25 below displays four examples to help visualize this process.

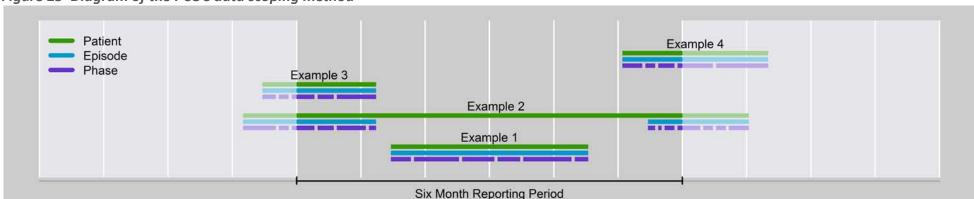


Figure 25 Diagram of the PCOC data scoping method

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). The first two phases would have been included in the previous report. For the phases relating to the second episode, only the first three end within the reporting period, so only these would be included in the report. The following four phases would be included in the next report. Both of the episode records and the patient record would also be included in the report.

In <u>Example 3</u>, the patient has one episode and five phases. Only the last three phases will be included in the report as they are the only ones ending within the reporting period (the first two phases would have been included in the previous report). 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 (the last two phases will be included in the next report). Again, the episode and patient records would be included in the report.



Appendix B – 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 change in symptom score (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 values in step 3
	at start	at end	(from Report 6 National Database)	(start score minus end score)	(Step 2 minus Step 1)	
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



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- 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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