

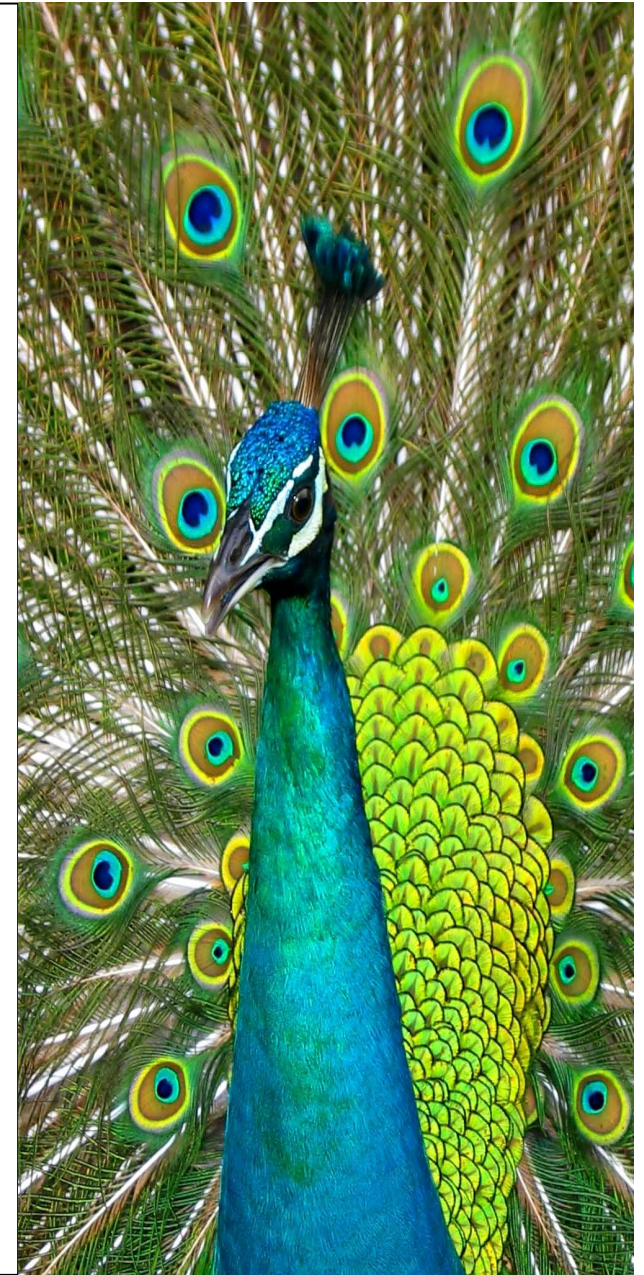


PCOC Report 7

New South Wales

January to June 2009

October 2009



PCOC REPORT 7

January to June 2009

Palliative Care Outcomes Collaboration (PCOC)

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Introduction

Funding

Palliative Care Outcomes Collaboration (PCOC) was formed in mid-2005 and is funded by the Australian Government. It is a voluntary, quality initiative which aims to assist palliative care services to measure the standard and quality of care which is a stated goal of the *National Palliative Care Strategy*. In part, this will be achieved by collecting and analysing data and reporting findings to services.

Dataset

The development of the PCOC dataset has evolved after broad consultation with services and representatives of peak organisations and approval by PCOC's Scientific and Clinical Advisory Committee (SCAC).

The PCOC database contains data from April 2006 to June 2009 on 41,135 patients with 51,075 episodes of care and 104,108 phases of care.

PCOC reports

PCOC provides analysis of each service's data and also compares this to the national data. The clinical assessment tools - Phase of Care, PC Problem Severity Score (PSS), Symptom Assessment Scale (SAS), Australian-modified Karnofsky and RUG-ADL - provide measures of quality and outcomes.

PCOC Report Issue 7

86 palliative care services submitted data for this report and the reporting period is January to June 2009. PCOC is progressively introducing benchmark measures into the PCOC Reports. These measures are chosen based on discussions and outcomes from the annual PCOC Benchmarking Workshops. There are four benchmark measures included in Report 7 although no benchmarks have yet been set as these are still to be agreed. Agreement of benchmarks will occur later in the year after the next SCAC meeting when suggested benchmarks from the workshops held during May-June 2009 will be considered. The benchmark measures are:

Benchmark measure 1 - Time from referral to first contact (Table 26, Figures 4 and 5)

Benchmark measure 2 - Time in the unstable phase (Table 27)

Benchmark measure 3 - Change in pain (both PC PSS and SAS) (Tables 28 – 31, Figure 6)

Benchmark measure 4 - Change in symptoms relative to the national average (Figures 7 and 8)

Although the benchmark measures have been reported by setting of care (overnight admitted and not admitted overnight), services and PCOC suggested that actual benchmarks should be the same across all settings as it should be seen through the patient's eyes rather than the service provider's eyes.

Time from referral to first contact is calculated by the difference between the referral date and the date of first contact or episode start date (which ever occurs first or has been provided) and is calculated for all episodes of care and across all settings of care. Although definitional issues around this measure have been identified it was decided that it is still a useful measure of service responsiveness and that future changes incorporated into the Version 3 dataset will improve the collection, quality and understanding of the items required for this measure.

Time in the unstable phase is calculated by the difference between the phase start date and the phase end date and is analysed by episode type and then occurrence of the unstable phase during the episode.

Change in pain is calculated by the difference in pain score from the beginning of a phase to the end of phase and is calculated using both PSS pain and SAS pain measures. It is also reported by setting of care. The proposed benchmark measures are the proportion of patients with absent or mild pain at the beginning of a phase whose pain remained absent or mild at the end of the phase and the proportion of patients with moderate or severe pain at the beginning of a phase whose pain decreased to absent or mild at the end of the phase.

Change in symptoms relative to the national average measures the mean change in symptoms on the PCPSS/SAS that are adjusted for both phase and for the symptom score at the start of each phase. This measure allows services to compare the change in symptom score for 'like' patients i.e. patients in the same phase who started with the same level of symptom. Eight symptoms have been included in this report (PCPSS pain, other symptoms, psychological/spiritual, family/carer; SAS pain, nausea, bowels, breathing).

Once benchmark measures are adopted they can be reviewed and adjusted over time and other measures can be considered at future workshops.

Points to note

Data reported for services identifying as consultancy are included in the overnight admitted data analysis, with the exception of data reported for services identifying as outpatient or community consultancy which are included in the not admitted overnight data analysis.

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

Some tables throughout the 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 or unable to be calculated due to missing or invalid data.

Section 1 - Data Summary

This report presents data from a total of 86 services. During the reporting period data were provided for a total of 9436 patients, with 11690 episodes and 24881 phases. For the purposes of reporting episode types Ambulatory, Community and Consultation service have been grouped together to for the Not admitted overnight episode type group.

Table 1 *Number and percentage of patients, episodes and phases - by episode type*

Episode type	Overnight admitted		Not admitted overnight		Total	
	NSW	All Services	NSW	All Services	NSW	All Services
Number of patients*	2349	6861	359	3143	2550	9436
Number of episodes	2708	7923	437	3767	3145	11690
Number of phases	6036	17288	733	7593	6769	24881
Percentage of patients**	92.1	72.7	14.1	33.3	100	100
Percentage of episodes	86.1	67.8	13.9	32.2	100	100
Percentage of phases	89.2	69.5	10.8	30.5	100	100

Notes:

* Patients who have been in both an overnight admitted and Not admitted overnight setting are only counted once in the Total column and hence numbers may not add to the total.

** Patients who have been in both an overnight admitted and Not admitted overnight setting are only counted once in the Total column and hence percentages may not add to 100.

Table 2 *Patients with multiple episodes - overnight admitted patients*

Patients with:	NSW					All Services				
	Number	%	Average age at first admission	Malignant %	Non-malignant %	Number	%	Average age at first admission	Malignant %	Non-malignant %
1 episode	2071	88.2	71	57.4	7.1	6037	88.0	71	71.5	13.7
2 episodes	225	9.6	68	73.8	2.2	652	9.5	68	83.3	6.4
3 episodes	35	1.5	66	82.9	0.0	124	1.8	65	89.5	4.0
4 episodes	10	0.4	70	70.0	10.0	33	0.5	67	78.8	12.1
5 or more episodes	8	0.3	62	87.5	0.0	15	0.2	62	86.7	6.7

Note: Records where diagnosis was not provided are excluded from the table and hence the percentage of malignant and non-malignant may not add to 100.

Section 2 - Descriptive analysis

Profile of palliative care patients

Table 3 *Indigenous Status - all patients*

Indigenous Status	NSW	All Services
Aboriginal but not Torres Strait Islander origin	23	78
Torres Strait Islander but not Aboriginal origin	6	18
Both Aboriginal and Torres Strait Islander origin	3	12
Neither Aboriginal nor Torres Strait Islander origin	2460	9117
Not stated/Inadequately described	58	211
Total	2550	9436

Table 4 *Sex - all patients*

Sex	NSW	%	All Services	%
Male	1350	52.9	5111	54.2
Female	1199	47.0	4304	45.6
Not stated/inadequately described	1	0.0	21	0.2
Total	2550	100.0	9436	100.0

Table 5 *Main language spoken at home - all patients*

Main language spoken at home	NSW	%	All Services	%
English	1854	72.7	8000	84.8
Italian	17	0.7	131	1.4
Greek	25	1.0	76	0.8
Croatian	3	0.1	57	0.6
Cantonese	28	1.1	53	0.6
Vietnamese	5	0.2	28	0.3
Macedonian	6	0.2	24	0.3
Maltese	8	0.3	21	0.2
Spanish	5	0.2	21	0.2
Serbian	1	0.0	19	0.2
Mandarin	11	0.4	19	0.2
Polish	6	0.2	17	0.2
German	5	0.2	16	0.2
Arabic (including Lebanese)	7	0.3	12	0.1
French	5	0.2	11	0.1
All other languages	43	1.7	138	1.5
Not stated/inadequately described	521	20.4	793	8.4
Total	2550	100.0	9436	100.0

Note: The most common 15 languages from all services are reported separately, all other languages have been grouped together to form the category *All other languages*.

Table 6 Country of birth - all patients

Country of birth	NSW	%	All Services	%
Australia	1715	67.3	6104	64.7
England	151	5.9	788	8.4
Italy	61	2.4	315	3.3
Scotland	32	1.3	159	1.7
New Zealand	40	1.6	147	1.6
Greece	39	1.5	127	1.3
Germany	30	1.2	113	1.2
Netherlands	20	0.8	96	1.0
Croatia	14	0.5	81	0.9
China	41	1.6	72	0.8
Poland	12	0.5	69	0.7
Malta	22	0.9	66	0.7
Ireland	12	0.5	59	0.6
Vietnam	17	0.7	54	0.6
Yugoslavia	13	0.5	44	0.5
All other countries	273	10.7	840	8.9
Not stated/inadequately described	58	2.3	302	3.2
Total	2550	100.0	9436	100.0

Note: The most common 15 countries from all services are reported separately, all other countries have been grouped together to form the category *All other countries*.

Profile of palliative care episodes

The 9436 patients from all services seen in the six month period had a total of 11690 episodes of palliative care. These episodes included inpatient, community and consultative episodes. For example, a patient who received both inpatient and community (home-based) palliative care during the period is generally counted as two episodes.

Episode level activity is presented below by 10 year age group. The average age for all patients in New South Wales during this period was 70 years and for all services was 70 years.

Table 7 Number of episodes by age group - all episodes

Age group	NSW	%	All Services	%
< 15	19	0.6	56	0.5
15-24	4	0.1	48	0.4
25-34	34	1.1	131	1.1
35-44	94	3.0	350	3.0
45-54	291	9.3	1053	9.0
55-64	557	17.7	2146	18.4
65-74	732	23.3	2980	25.5
75-84	935	29.7	3327	28.5
85+	479	15.2	1599	13.7
Not stated/inadequately described	0	0.0	0	0.0
Total	3145	100.0	11690	100.0

Referral source refers to the service or organisation from which the patient was referred to for each individual episode of care. The following table presents referral source by episode type and shows that for all services, a higher proportion of overnight admitted patients were referred by a public hospital or a community-based palliative care agency. The table also shows that for all services, a higher proportion of patients not admitted overnight were referred by a public hospital or General Medical Practitioner rooms.

Table 8 Referral source by episode type

Referral source	Overnight admitted				Not admitted overnight			
	NSW	%	All Services	%	NSW	%	All Services	%
Public hospital - other than inpatient palliative care unit	619	22.9	3227	40.7	206	47.1	1580	41.9
Self, carer(s), family or friends	30	1.1	223	2.8	20	4.6	97	2.6
Private hospital - other than inpatient palliative care unit	45	1.7	562	7.1	7	1.6	316	8.4
Public palliative care inpatient unit/hospice	26	1.0	127	1.6	38	8.7	179	4.8
Private palliative care inpatient unit/hospice	7	0.3	38	0.5	4	0.9	51	1.4
General Medical Practitioner rooms	249	9.2	676	8.5	50	11.4	803	21.3
Specialist Medical Practitioner rooms	108	4.0	209	2.6	47	10.8	273	7.2
Community-based palliative care agency	514	19.0	1344	17.0	15	3.4	136	3.6
Community-based service	133	4.9	257	3.2	36	8.2	91	2.4
Residential aged care facility	7	0.3	44	0.6	1	0.2	96	2.5
Other	82	3.0	185	2.3	10	2.3	121	3.2
Not stated/inadequately described	888	32.8	1031	13.0	3	0.7	24	0.6
Total	2708	100.0	7923	100.0	437	100.0	3767	100.0

Table 9 *How episodes start and end - overnight admitted patients for NSW*

Mode of episode start	Mode of episode end					Total
	Discharged to usual accommodation	Discharged to interim accommodation	Discharged to another hospital	Death	All other reasons**	
Admitted from usual accommodation	560	29	50	808	25	1472
Admitted from other than usual accommodation	8	8	6	31	0	53
Admitted (transferred) from another hospital	160	20	48	677	8	913
Admitted (transferred) from acute care in other ward	20	11	15	170	4	220
All other reasons*	3	0	2	19	0	24
Total	751	68	121	1705	37	2682
As a percentage of each start mode						
Admitted from usual accommodation	38.0	2.0	3.4	54.9	1.7	100.0
Admitted from other than usual accommodation	15.1	15.1	11.3	58.5	0.0	100.0
Admitted (transferred) from another hospital	17.5	2.2	5.3	74.2	0.9	100.0
Admitted (transferred) from acute care in other ward	9.1	5.0	6.8	77.3	1.8	100.0
All other reasons*	12.5	0.0	8.3	79.2	0.0	100.0
Total	28.0	2.5	4.5	63.6	1.4	100.0

Note: All episodes where episode start mode or episode end mode was Not stated/inadequately described are excluded from the table. Episodes that remain open at the end of the reporting period are also excluded.

* Includes: Change from acute care to palliative care while remaining on same ward; Change of sub-acute/non-acute care type; Statistical admission from leave.

** Includes: Change from palliative care to acute care - different ward; Change from palliative care to acute care - same ward; Discharged at own risk.

Table 10 *How episodes start and end - overnight admitted patients for all services*

Mode of episode start	Mode of episode end					Total
	Discharged to usual accommodation	Discharged to interim accommodation	Discharged to another hospital	Death	All other reasons**	
Admitted from usual accommodation	2102	121	226	2267	257	4973
Admitted from other than usual accommodation	24	17	25	67	7	140
Admitted (transferred) from another hospital	276	38	112	1330	35	1791
Admitted (transferred) from acute care in other ward	58	14	26	384	9	491
All other reasons*	126	5	3	122	72	328
Total	2586	195	392	4170	380	7723
As a percentage of each start mode						
Admitted from usual accommodation	42.3	2.4	4.5	45.6	5.2	100.0
Admitted from other than usual accommodation	17.1	12.1	17.9	47.9	5.0	100.0
Admitted (transferred) from another hospital	15.4	2.1	6.3	74.3	2.0	100.0
Admitted (transferred) from acute care in other ward	11.8	2.9	5.3	78.2	1.8	100.0
All other reasons*	38.4	1.5	0.9	37.2	22.0	100.0
Total	33.5	2.5	5.1	54.0	4.9	100.0

Note: All episodes where episode start mode or episode end mode was Not stated/inadequately described are excluded from the table. Episodes that remain open at the end of the reporting period are also excluded.

* Includes: Change from acute care to palliative care while remaining on same ward; Change of sub-acute/non-acute care type; Statistical admission from leave.

** Includes: Change from palliative care to acute care - different ward; Change from palliative care to acute care - same ward; Discharged at own risk.

Table 11 *How episodes start and end - patients not admitted overnight*

Mode of episode start	Mode of episode end					Total
	Discharged/ case closure	Admitted for inpatient palliative care	Admitted for inpatient acute care	Transfer for primary care	Death	
NSW						
New referral	62	103	10	17	105	297
Transfer from being an o/n PC patient	39	12	1	0	37	89
Total	101	115	11	17	142	386
As a percentage of each start mode						
New referral	20.9	34.7	3.4	5.7	35.4	100.0
Transfer from being an o/n PC patient	43.8	13.5	1.1	0.0	41.6	100.0
Total	26.2	29.8	2.8	4.4	36.8	100.0
All services						
New referral	550	512	482	55	874	2473
Transfer from being an o/n PC patient	147	151	127	22	190	637
Total	697	663	609	77	1064	3110
As a percentage of each start mode						
New referral	22.2	20.7	19.5	2.2	35.3	100.0
Transfer from being an o/n PC patient	23.1	23.7	19.9	3.5	29.8	100.0
Total	22.4	21.3	19.6	2.5	34.2	100.0

Note: All episodes where episode start mode or episode end mode was Not stated/inadequately described are excluded from the table. Episodes that remain open at the end of the reporting period are also excluded.

Table 12 Accommodation at episode start and end - all discharged patients

Accommodation at episode start	Accommodation at episode end				
	Private residence	Low level care	High level care	All other*	Total
NSW					
Private residence	471	5	26	50	552
Residential aged care (low level care)	2	3	2	2	9
Residential aged care (high level care)	3	0	14	0	17
All other	5	3	3	7	18
Total	481	11	45	59	596
As a percentage of each start accommodation					
Private residence	85.3	0.9	4.7	9.1	100.0
Residential aged care (low level care)	22.2	33.3	22.2	22.2	100.0
Residential aged care (high level care)	17.6	0.0	82.4	0.0	100.0
All other	27.8	16.7	16.7	38.9	100.0
Total	80.7	1.8	7.6	9.9	100.0
All services					
Private residence	2208	17	97	175	2497
Residential aged care (low level care)	8	22	9	5	44
Residential aged care (high level care)	6	4	107	3	120
All other	111	5	10	44	170
Total	2333	48	223	227	2831
As a percentage of each start accommodation					
Private residence	88.4	0.7	3.9	7.0	100.0
Residential aged care (low level care)	18.2	50.0	20.5	11.4	100.0
Residential aged care (high level care)	5.0	3.3	89.2	2.5	100.0
All other	65.3	2.9	5.9	25.9	100.0
Total	82.4	1.7	7.9	8.0	100.0

Note: All episodes where accommodation at episode start or end was Not stated/inadequately described are excluded from the table. Episodes that ended in death and episodes that remain open at the end of the reporting period are also excluded. The all other category includes: Community group home; Boarding house; Transitional living unit.

Table 13 Level of support at episode start and end - all patients admitted from and discharged to private residence (home)

Level of support at episode start	Level of support at episode end				Total
	Without support (lives alone)	Without support (lives with others)	With support (lives alone or with others)	Other arrangements	
NSW					
Without support (lives alone)	4	1	11	0	16
Without support (lives with others)	0	6	5	0	11
With support (lives alone or with others)	3	2	365	0	370
Other arrangements	0	0	0	0	0
Total	7	9	381	0	397
As a percentage of each start support					
Without support (lives alone)	25.0	6.3	68.8	0.0	100.0
Without support (lives with others)	0.0	54.5	45.5	0.0	100.0
With support (lives alone or with others)	0.8	0.5	98.6	0.0	100.0
Other arrangements	na	na	na	na	na
Total	1.8	2.3	96.0	0.0	100.0
All services					
Without support (lives alone)	54	4	86	1	145
Without support (lives with others)	1	61	126	0	188
With support (lives alone or with others)	12	17	1661	0	1690
Other arrangements	0	0	0	0	0
Total	67	82	1873	1	2023
As a percentage of each start support					
Without support (lives alone)	37.2	2.8	59.3	0.7	100.0
Without support (lives with others)	0.5	32.4	67.0	0.0	100.0
With support (lives alone or with others)	0.7	1.0	98.3	0.0	100.0
Other arrangements	na	na	na	na	na
Total	3.3	4.1	92.6	0.0	100.0

Note: All episodes where level of support at episode start or end was Not stated/inadequately described are excluded from the table. Episodes that ended in death and episodes that remain open at the end of the reporting period are also excluded.

Table 14 Primary diagnosis by episode type - summary

Primary diagnosis	Overnight admitted				Not admitted overnight			
	NSW	%	All services	%	NSW	%	All services	%
Malignant	1672	61.7	5911	74.6	398	91.1	2985	79.2
Non-malignant	163	6.0	951	12.0	34	7.8	702	18.6
Not stated/inadequately described	873	32.2	1061	13.4	5	1.1	80	2.1
Total	2708	100.0	7923	100.0	437	100.0	3767	100.0

Table 15 Primary diagnosis by episode type

Primary diagnosis	Overnight admitted				Not admitted overnight			
	NSW	%	All services	%	NSW	%	All services	%
Malignant								
Bone and soft tissue	56	4.3	175	3.2	32	8.1	116	4.9
Breast	116	8.9	478	8.8	37	9.4	189	8.0
CNS	19	1.5	122	2.3	16	4.1	57	2.4
Colorectal	153	11.7	616	11.4	19	4.8	221	9.3
Gynaecological	72	5.5	276	5.1	23	5.8	133	5.6
Haematological	67	5.1	319	5.9	16	4.1	132	5.6
Head and neck	102	7.8	342	6.3	20	5.1	139	5.9
Lung	266	20.4	1173	21.7	71	18.0	485	20.5
Pancreas	65	5.0	261	4.8	26	6.6	133	5.6
Prostate	85	6.5	432	8.0	17	4.3	203	8.6
Skin	65	5.0	243	4.5	8	2.0	97	4.1
Other GIT	117	9.0	434	8.0	32	8.1	227	9.6
Other Urological	42	3.2	244	4.5	21	5.3	108	4.6
Other Malignancy	80	6.1	300	5.5	57	14.4	131	5.5
<i>All malignant</i>	<i>1305</i>	<i>100.0</i>	<i>5415</i>	<i>100.0</i>	<i>395</i>	<i>100.0</i>	<i>2371</i>	<i>100.0</i>
Non-malignant								
Cardiovascular	32	23.5	207	22.4	6	17.6	79	24.9
HIV/AIDS	14	10.3	16	1.7	0	0.0	0	0.0
Kidney failure	12	8.8	115	12.4	8	23.5	45	14.2
Neurological disease	40	29.4	224	24.2	8	23.5	80	25.2
Respiratory failure	15	11.0	114	12.3	6	17.6	58	18.3
Other non-malignancy	23	16.9	248	26.8	6	17.6	55	17.4
<i>All non-malignant</i>	<i>136</i>	<i>100.0</i>	<i>924</i>	<i>100.0</i>	<i>34</i>	<i>100.0</i>	<i>317</i>	<i>100.0</i>

Note: All episodes where diagnosis was Not stated/inadequately described or where the breakdown of malignant and non-malignant was not provided are excluded from the table.

Table 16 *Length of Stay (LOS) summary - overnight admitted patients*

Length of stay	NSW	All services
Average length of episode	13.0	12.0
Median length of episode	8	7
Average number of phases per episode	2.0	2.0

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 from the analysis. In addition, any records where LOS was greater than 90 days were considered to be outliers and are excluded from the average calculations.

Table 17 *Length of Stay (LOS) - overnight admitted patients*

Length of stay	NSW	%	All Services	%
Same day	77	2.9	297	3.9
1-2 days	430	16.2	1469	19.1
3-4 days	338	12.7	1033	13.4
5-7 days	389	14.6	1183	15.4
8-14 days	562	21.1	1649	21.4
15-21 days	330	12.4	846	11.0
22-30 days	208	7.8	525	6.8
31-60 days	262	9.8	539	7.0
61-90 days	47	1.8	106	1.4
Greater than 90 days	19	0.7	48	0.6
Total	2662	100.0	7695	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 from the table.

Table 18 *Place of death - patients not admitted overnight*

Place of death	NSW	%	All Services	%
Private residence	47	32.9	619	57.7
Residential aged care setting	11	7.7	138	12.9
Other location*	81	56.6	211	19.7
Not stated/inadequately described	4	2.8	105	9.8
Total	143	100.0	1073	100.0

* Includes patients who have died in a hospital setting without the episode of a non-admitted palliative care being ended. Patients whose community episode is ended when admitted to hospital are excluded from this table (see Table 10).

Profile of palliative care phases

Table 19 Number of phases by phase type and episode type

Phase	Overnight admitted				Not admitted overnight			
	NSW	%	All services	%	NSW	%	All services	%
Stable	1077	17.8	3566	20.6	175	23.9	1724	22.7
Unstable	2109	34.9	5605	32.4	230	31.4	2189	28.8
Deteriorating	1635	27.1	4351	25.2	208	28.4	2789	36.7
Terminal	1036	17.2	2922	16.9	54	7.4	677	8.9
Bereaved	179	3.0	844	4.9	66	9.0	214	2.8
All phases	6036	100.0	17288	100.0	733	100.0	7593	100.0

Table 20 Average phase length (in days) by phase and episode type

Phase	Overnight admitted		Not admitted overnight	
	NSW	All services	NSW	All services
Stable	7.5	7.0	28.7	20.3
Unstable	8.2	6.6	18.4	11.2
Deteriorating	5.4	5.7	20.5	13.8
Terminal	2.8	2.5	4.5	2.8
Bereaved	2.2	1.4	1.2	1.5

Note: Phase records where length of phase was greater than 90 days are excluded from the average calculations.

Figure 1 Total RUG-ADL at beginning of phase – overnight admitted patients

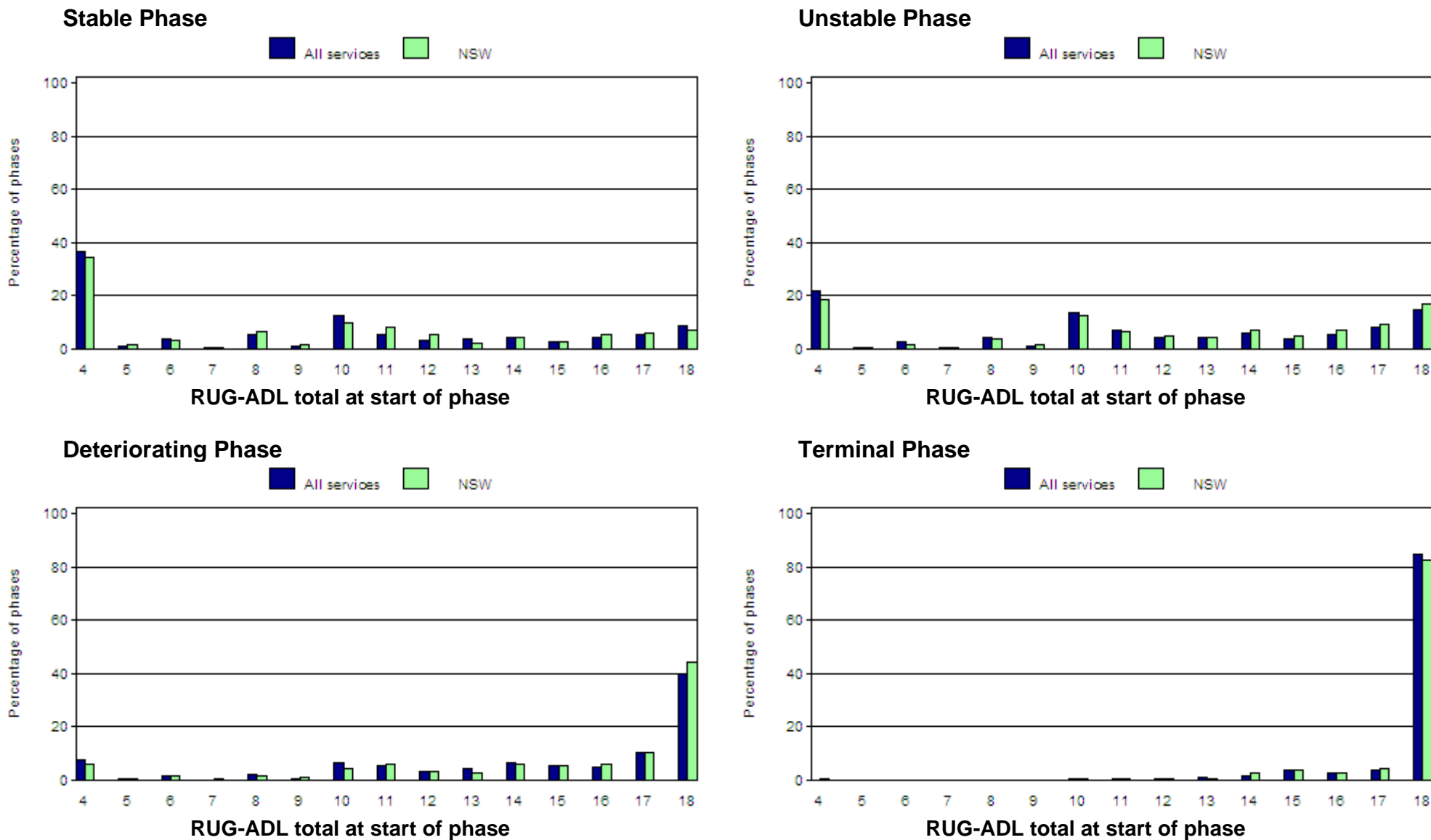


Figure 2 Total RUG-ADL at beginning of phase – patients not admitted overnight

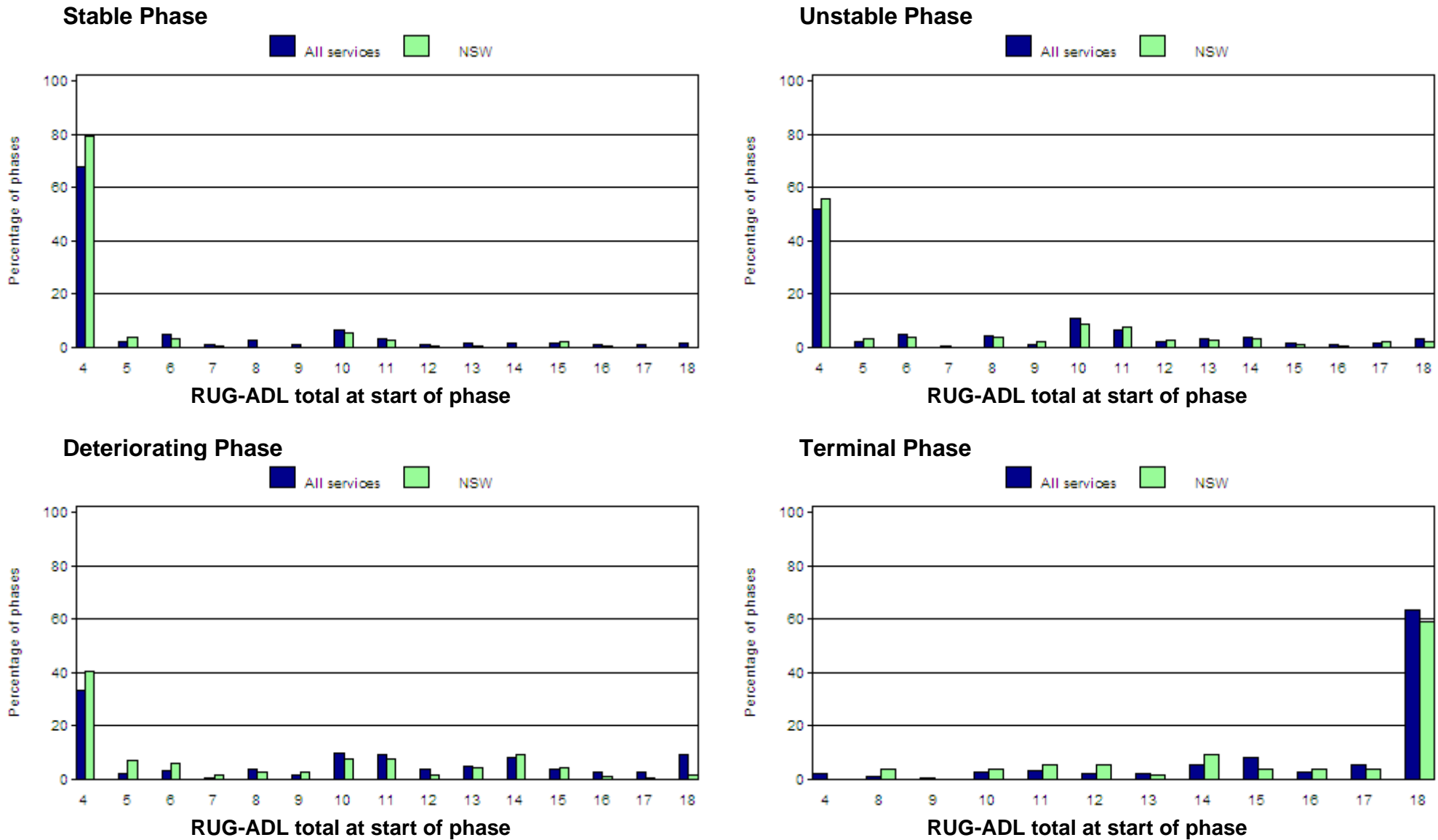


Table 21 Profile of PC Problem Severity Scores (percentages) at beginning of phase by phase type - overnight admitted patients

Phase	Problem severity	NSW				All services			
		Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe
Stable	Pain	17.9	49.2	27.1	5.7	29.7	43.9	21.5	4.9
	Other Symptom	5.5	42.0	41.8	10.7	12.8	43.4	33.3	10.4
	Psychological/Spiritual	11.8	46.7	31.2	10.3	20.7	45.1	25.4	8.8
	Family/Carer	13.7	43.1	30.6	12.6	27.9	38.0	23.4	10.8
Unstable	Pain	10.4	27.1	44.2	18.3	15.8	27.0	37.8	19.4
	Other Symptom	3.3	15.0	49.9	31.8	6.1	19.1	46.1	28.7
	Psychological/Spiritual	7.7	22.8	44.8	24.7	11.8	32.1	37.2	18.9
	Family/Carer	7.7	19.9	42.1	30.2	18.3	26.3	34.1	21.3
Deteriorating	Pain	9.8	32.7	40.5	17.0	17.1	32.6	34.1	16.2
	Other Symptom	1.9	17.5	44.8	35.8	5.6	19.9	41.9	32.6
	Psychological/Spiritual	6.0	24.0	41.4	28.6	12.3	29.6	36.1	22.1
	Family/Carer	4.5	20.1	40.1	35.3	13.7	23.4	36.8	26.2
Terminal	Pain	19.5	33.8	30.6	16.1	25.2	32.1	26.6	16.1
	Other Symptom	8.1	19.1	35.2	37.6	12.8	22.6	30.0	34.6
	Psychological/Spiritual	16.3	23.1	29.4	31.3	27.2	26.5	24.4	21.9
	Family/Carer	5.4	12.0	32.6	50.0	9.7	19.0	34.1	37.1

Table 22 Profile of PC Problem Severity Scores (percentages) at beginning of phase by phase type - patients not admitted overnight

Phase	Problem severity	NSW				All services			
		Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe
Stable	Pain	28.6	51.4	18.9	1.1	46.4	40.0	12.2	1.5
	Other Symptom	14.4	54.6	27.6	3.4	24.3	50.3	22.0	3.3
	Psychological/Spiritual	29.7	55.4	12.6	2.3	38.3	45.4	14.0	2.4
	Family/Carer	21.7	57.1	18.3	2.9	37.0	41.6	18.2	3.3
Unstable	Pain	21.0	27.5	36.7	14.8	26.2	24.5	31.7	17.6
	Other Symptom	3.5	18.4	53.1	25.0	11.2	19.5	46.5	22.8
	Psychological/Spiritual	15.8	24.1	47.4	12.7	23.8	30.8	33.6	11.8
	Family/Carer	11.8	27.6	39.5	21.1	22.5	30.1	31.7	15.7
Deteriorating	Pain	18.8	34.6	35.6	11.1	28.2	35.7	25.5	10.6
	Other Symptom	2.9	30.4	49.8	16.9	9.5	26.5	45.4	18.6
	Psychological/Spiritual	12.0	40.4	33.7	13.9	20.7	35.5	32.8	11.0
	Family/Carer	13.0	34.6	33.7	18.8	16.8	29.8	36.9	16.5
Terminal	Pain	13.0	46.3	31.5	9.3	33.3	31.5	23.3	11.8
	Other Symptom	1.9	25.9	44.4	27.8	17.0	20.0	33.3	29.7
	Psychological/Spiritual	16.7	38.9	25.9	18.5	35.4	24.1	25.8	14.8
	Family/Carer	5.6	18.5	44.4	31.5	14.5	15.7	42.6	27.2

Table 23 Average Symptom Assessment Scores (SAS) at beginning of phase by phase and episode type

Phase	Symptom Assessment Score	Overnight admitted		Not admitted overnight	
		NSW	All services	NSW	All services
Stable	Insomnia	2.1	1.7	1.3	1.3
	Appetite	3.2	2.6	2.8	2.4
	Nausea	1.4	0.9	0.8	0.6
	Bowels	2.2	1.9	1.6	1.2
	Breathing	1.9	1.7	2.0	1.6
	Fatigue	4.5	4.3	4.2	4.4
	Pain	3.0	2.3	1.9	1.6
Unstable	Insomnia	2.8	2.7	2.5	2.4
	Appetite	4.1	3.9	3.8	3.8
	Nausea	2.4	2.0	1.8	1.6
	Bowels	3.6	3.0	2.8	1.9
	Breathing	2.8	2.7	2.5	2.2
	Fatigue	5.4	5.5	6.0	5.8
	Pain	4.1	4.0	3.2	3.4
Deteriorating	Insomnia	2.4	2.1	2.5	2.0
	Appetite	5.3	4.2	4.4	3.8
	Nausea	2.3	1.6	2.0	1.1
	Bowels	4.0	3.1	2.8	1.7
	Breathing	3.7	3.1	3.4	2.3
	Fatigue	6.8	6.1	6.3	6.0
	Pain	4.1	3.5	3.3	2.4

Continued...

Phase	Symptom Assessment Score	Overnight admitted		Not admitted overnight	
		NSW	All services	NSW	All services
Terminal	Insomnia	1.6	1.0	2.2	1.8
	Appetite	4.2	2.5	5.3	4.7
	Nausea	1.5	0.8	1.6	0.9
	Bowels	3.5	2.0	2.3	1.6
	Breathing	4.6	3.7	4.1	3.0
	Fatigue	5.8	4.6	7.1	7.4
	Pain	3.4	2.9	3.4	2.4

Table 24 Karnofsky score at phase start by episode type

Karnofsky score	Overnight admitted				Not admitted overnight			
	NSW	%	All Services	%	NSW	%	All Services	%
Dead	35	0.6	47	0.3	0	0.0	3	0.0
Comatose or barely rousable	387	6.6	1528	9.3	13	1.9	108	1.5
Totally bedfast and requiring extensive nursing care	534	9.1	2537	15.4	36	5.4	388	5.3
Almost completely bedfast	336	5.7	1528	9.3	30	4.5	286	3.9
In bed more than 50% of the time	425	7.3	1894	11.5	59	8.8	527	7.1
Requires considerable assistance	607	10.4	2511	15.3	125	18.7	1058	14.3
Requires occasional assistance	425	7.3	1847	11.2	141	21.1	968	13.1
Cares for self	122	2.1	612	3.7	124	18.6	622	8.4
Normal activity with effort	120	2.0	348	2.1	65	9.7	318	4.3
Able to carry on normal activity; minor signs or symptoms	48	0.8	113	0.7	23	3.4	90	1.2
Normal; no complaints; no evidence of disease	2	0.0	9	0.1	0	0.0	5	0.1
Not stated/inadequately described	2816	48.1	3470	21.1	51	7.6	3006	40.7
Total	5857	100.0	16444	100.0	667	100.0	7379	100.0

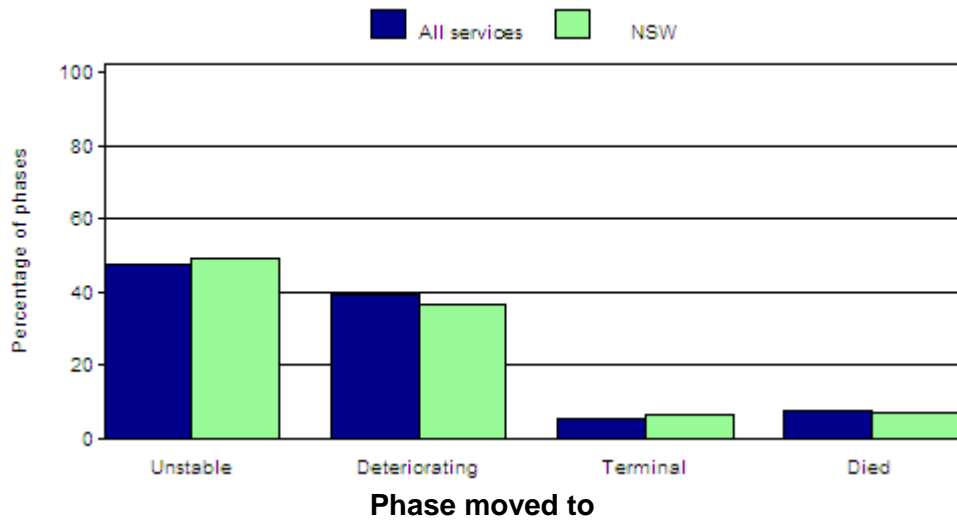
Note: Bereavement phase records are excluded from the table.

Table 25 Reason for phase end by phase and episode type

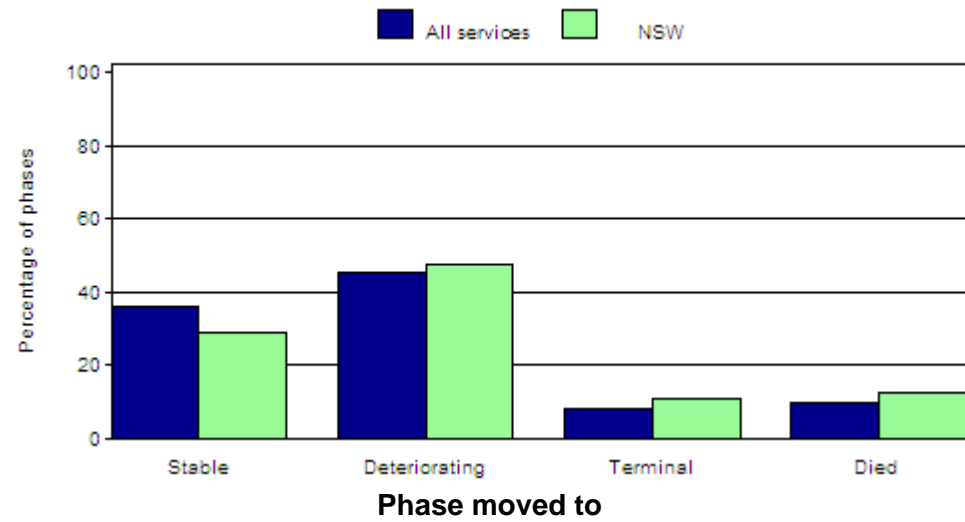
Phase	Reason for phase end	Overnight admitted				Not admitted overnight			
		NSW	%	All services	%	NSW	%	All services	%
Stable	Phase change	613	56.9	1725	48.4	105	60.0	1041	60.4
	Discharge/case closure	436	40.5	1733	48.6	55	31.4	594	34.5
	Died	21	1.9	80	2.2	13	7.4	74	4.3
	Bereavement phase end	1	0.1	3	0.1	0	0.0	0	0.0
	Not stated/Inadequately described	6	0.6	25	0.7	2	1.1	15	0.9
	<i>Total</i>		<i>1077</i>	<i>100.0</i>	<i>3566</i>	<i>100.0</i>	<i>175</i>	<i>100.0</i>	<i>1724</i>
Unstable	Phase change	1541	73.1	4253	75.9	123	53.5	1506	68.8
	Discharge/case closure	351	16.6	913	16.3	75	32.6	574	26.2
	Died	175	8.3	380	6.8	29	12.6	103	4.7
	Bereavement phase end	3	0.1	3	0.1	0	0.0	0	0.0
	Not stated/Inadequately described	39	1.8	56	1.0	3	1.3	6	0.3
	<i>Total</i>		<i>2109</i>	<i>100.0</i>	<i>5605</i>	<i>100.0</i>	<i>230</i>	<i>100.0</i>	<i>2189</i>
Deteriorating	Phase change	1054	64.5	2782	63.9	98	47.1	1628	58.4
	Discharge/case closure	127	7.8	656	15.1	91	43.8	897	32.2
	Died	434	26.5	876	20.1	17	8.2	258	9.3
	Bereavement phase end	11	0.7	16	0.4	0	0.0	0	0.0
	Not stated/Inadequately described	9	0.6	21	0.5	2	1.0	6	0.2
	<i>Total</i>		<i>1635</i>	<i>100.0</i>	<i>4351</i>	<i>100.0</i>	<i>208</i>	<i>100.0</i>	<i>2789</i>
Terminal	Phase change	137	13.2	382	13.1	42	77.8	160	23.6
	Discharge/case closure	12	1.2	96	3.3	2	3.7	53	7.8
	Died	876	84.6	2417	82.7	10	18.5	462	68.2
	Bereavement phase end	10	1.0	20	0.7	0	0.0	2	0.3
	Not stated/Inadequately described	1	0.1	7	0.2	0	0.0	0	0.0
	<i>Total</i>		<i>1036</i>	<i>100.0</i>	<i>2922</i>	<i>100.0</i>	<i>54</i>	<i>100.0</i>	<i>677</i>

Figure 3 Phase outcomes by phase - all phases

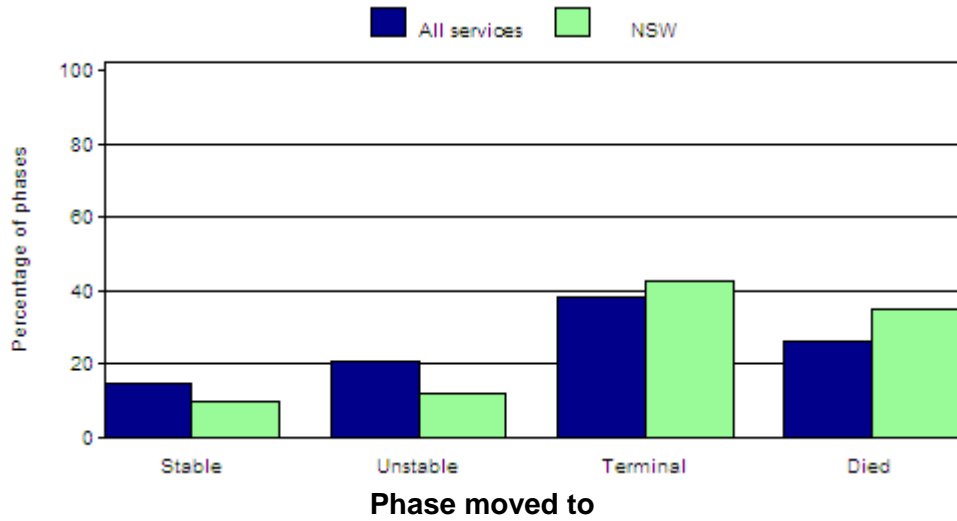
Stable Phase



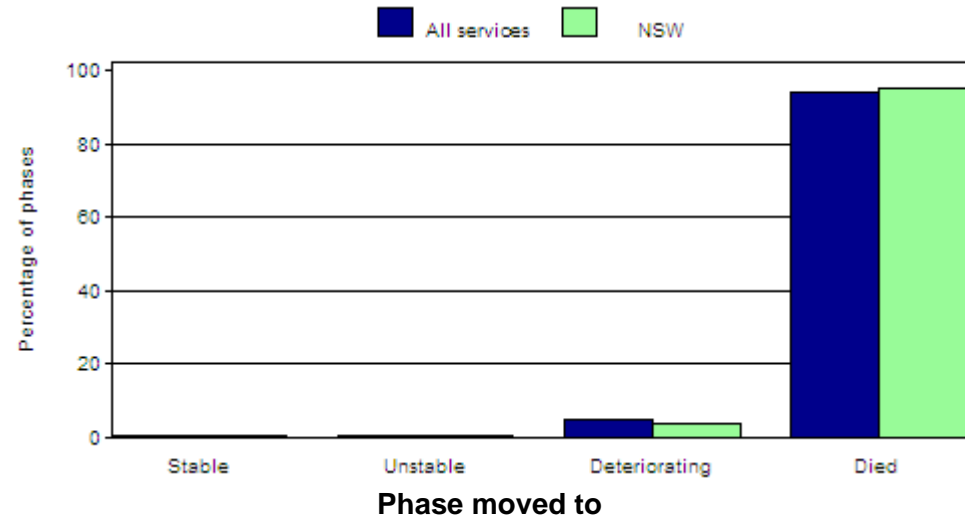
Unstable Phase



Deteriorating Phase



Terminal Phase



Section 3 - Benchmark analysis

Benchmark Measure 1 - Time from referral to first contact

PCOC is progressively introducing benchmark measures into the PCOC reports. Table 26 and Figures 4 and 5 below present descriptive data on the first benchmark measure. Please note that no benchmarks have yet been set as these are still to be agreed at the next SCAC meeting to be held later in 2009. PCOC will present some recommendations to the SCAC based on outcomes from all 3 benchmarking workshops held during May-June 2009.

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. Please note that the category *within 48 hours* represents those contacted on the same day as the referral or on the following day.

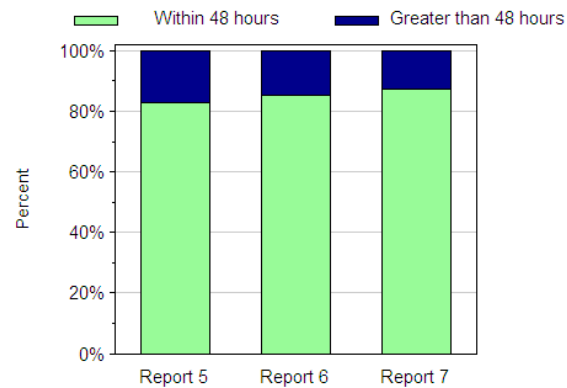
Table 26 *Time from referral to first contact by episode start*

Time (in days)	Overnight admitted patients				Patients not admitted overnight			
	NSW	%	All Services	%	NSW	%	All Services	%
Within 48 hours	1741	87.1	6216	87.9	284	66.0	1737	62.9
2-7 days	129	6.5	550	7.8	102	23.7	643	23.3
8-14 days	21	1.1	110	1.6	30	7.0	220	8.0
Greater than 14 days	107	5.4	194	2.7	14	3.3	162	5.9
Average	1.6	na	1.5	na	2.3	na	2.6	na
Median	1	na	1	na	1	na	1	na

Note: Episodes where referral date, date of first contact, or episode start date were 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.

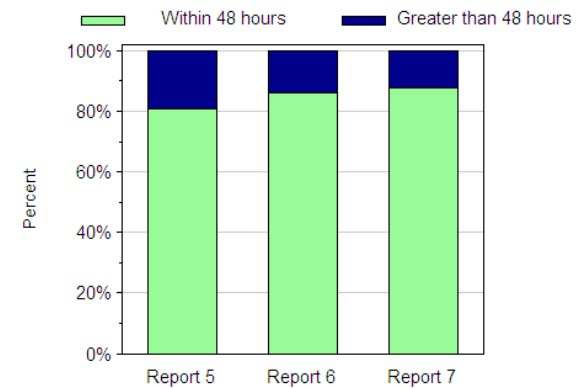
Figure 4 Time from referral to first contact - overnight admitted patients

NSW



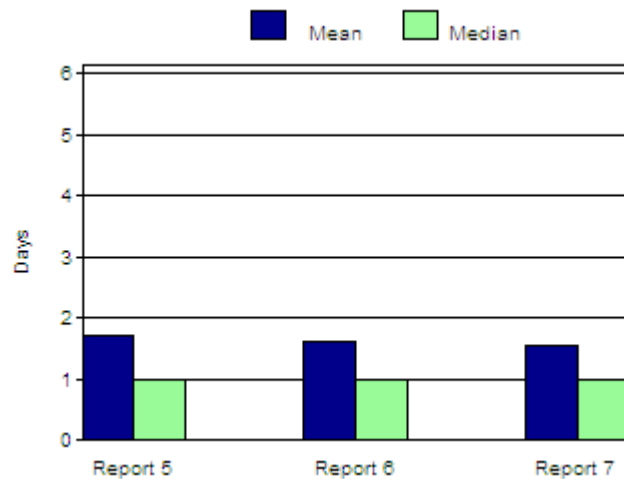
Time from referral to first contact

All services



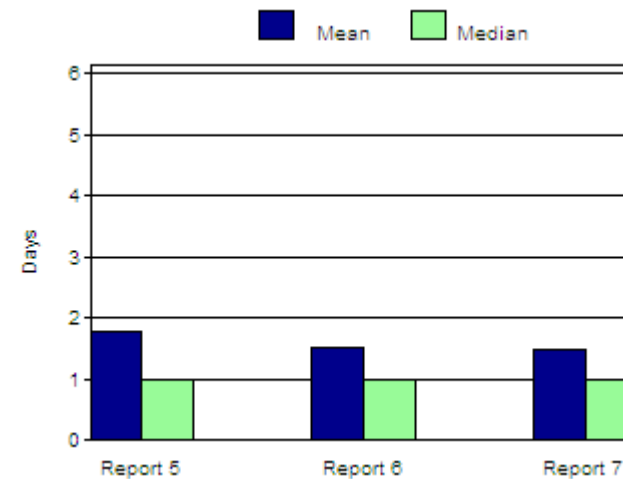
Time from referral to first contact

NSW



Mean and median time from referral to first contact

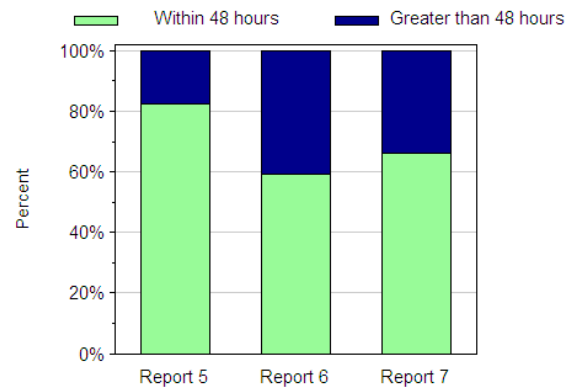
All services



Mean and median time from referral to first contact

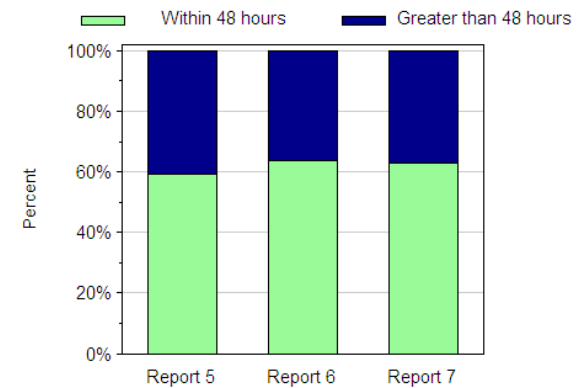
Figure 5 Time from referral to first contact - patients not admitted overnight

NSW



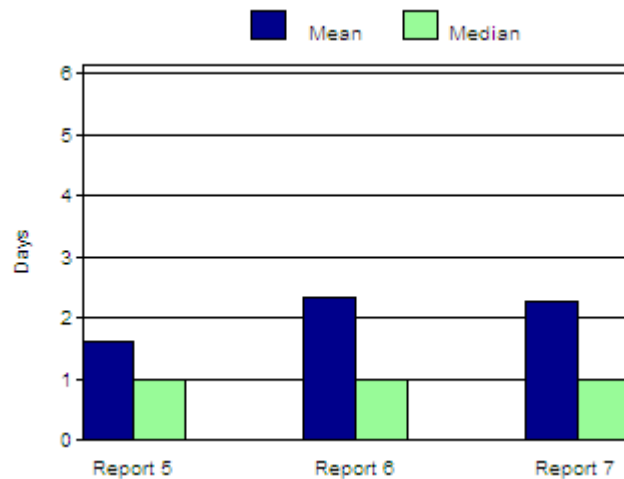
Time from referral to first contact

All services



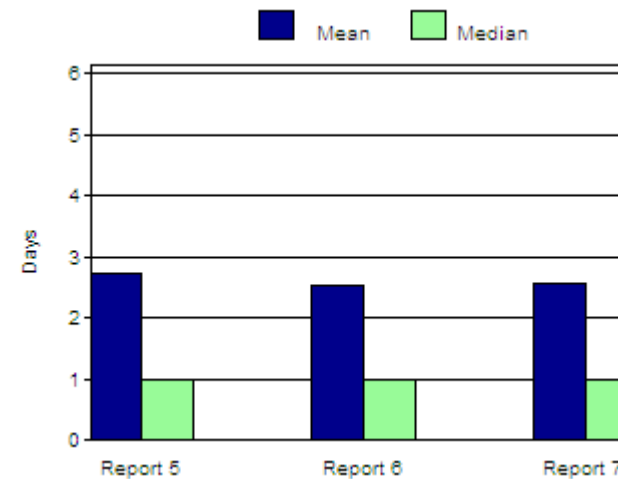
Time from referral to first contact

NSW



Mean and median time from referral to first contact

All services



Mean and median time from referral to first contact

Benchmark Measure 2 - Time in unstable phase

The following table presents descriptive data on the second benchmark measure. Once again, please note that no benchmarks have yet been set as these are still to be agreed.

Table 27 shows that for overnight admitted patients 4240 of the 5605 unstable phases occurred at the start of an episode (i.e. the patient was unstable on admission) and 1365 unstable phases occurred during the episode. A total of 27.1% of unstable phases were longer than 7 days in length, with the average phase length being 6.6 days and the median 4 days.

Similarly, for patients not admitted overnight, 1046 of the 2189 unstable phases occurred as the first phase of an episode and 1143 unstable phases occurred in subsequent phases of the episode. A total of 38.4% of unstable phases for patients not admitted overnight were longer than 7 days in length, with the average unstable phase length being 15.3 days and the median 5 days.

Table 27 *Time in unstable phase by episode type and occurrence of unstable phase*

Episode type	Occurrence of unstable phase	Number		Percent unstable for > 7 days		Average days in unstable phase		Median days in unstable phase	
		NSW	All Services	NSW	All Services	NSW	All Services	NSW	All Services
Overnight admitted	First phase	1673	4240	36.3	28.9	8.7	7	5	4
	Not first phase	436	1365	25.9	21.5	6.2	5.3	4	3
	<i>Total</i>	<i>2109</i>	<i>5605</i>	<i>34.2</i>	<i>27.1</i>	<i>8.2</i>	<i>6.6</i>	<i>5</i>	<i>4</i>
Not admitted overnight	First phase	158	1046	69.0	51.1	43.3	22.1	21	8
	Not first phase	72	1143	38.9	26.8	13.6	9.1	5	3
	<i>Total</i>	<i>230</i>	<i>2189</i>	<i>59.6</i>	<i>38.4</i>	<i>34</i>	<i>15.3</i>	<i>13</i>	<i>5</i>

Benchmark Measure 3 - Change in pain

Change in pain PC Problem Severity Score (PSS)

The following two tables present data on the third benchmark measure in relation to pain PSS. The following measures have been introduced after consideration of discussions around pain at the 2009 benchmarking workshops but no benchmarks have yet been set as these are still to be agreed. 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 28 *Measure 1: Patients with absent or mild pain at beginning of phase whose pain remained absent or mild at end of phase*

Episode type	NSW			All Services		
	Report 5	Report 6	Report 7	Report 5	Report 6	Report 7
<i>Overnight admitted</i>						
Number	630	886	877	806	1651	2387
Percent	75.6	78.0	80.2	75.5	79.5	82.4
<i>Not admitted overnight</i>						
Number	23	119	158	150	608	1201
Percent	74.2	87.5	81.0	76.5	82.4	79.1

Table 29 *Measure 2: Patients with moderate or severe pain at beginning of phase whose pain decreased to absent or mild at end of phase*

Episode type	NSW			All Services		
	Report 5	Report 6	Report 7	Report 5	Report 6	Report 7
<i>Overnight admitted</i>						
Number	299	396	423	374	731	1005
Percent	34.1	32.2	34.1	31.2	36.7	38.1
<i>Not admitted overnight</i>						
Number	12	22	30	45	123	270
Percent	80.0	27.5	21.0	54.2	31.7	38.1

Change in pain Symptom Assessment Score (SAS)

The following two tables present data on the third benchmark measure in relation to pain SAS. The following measures have been introduced after consideration of discussions around pain at the 2009 benchmarking workshops but no benchmarks have yet been set as these are still to be agreed. Please note that in the following analysis a pain SAS of 0-3 has been classified as absent or mild and a pain SAS of 4-10 has been classified as moderate or severe. 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 30 Measure 1: Patients with absent or mild pain at beginning of phase whose pain remained absent or mild at end of phase

Episode type	NSW			All Services		
	Report 5	Report 6	Report 7	Report 5	Report 6	Report 7
<i>Overnight admitted</i>						
Number	35	273	555	771	1772	3107
Percent	79.5	82.2	80.8	76.1	80.4	82.4
<i>Not admitted overnight</i>						
Number	4	7	86	2710	3697	2624
Percent	100.0	53.8	77.5	82.5	83.3	81.6

Table 31 Measure 2: Patients with moderate or severe pain at beginning of phase whose pain decreased to absent or mild at end of phase

Episode type	NSW			All Services		
	Report 5	Report 6	Report 7	Report 5	Report 6	Report 7
<i>Overnight admitted</i>						
Number	11	77	224	393	843	1235
Percent	16.4	25.8	35.2	37.8	38.9	41.2
<i>Not admitted overnight</i>						
Number	1	5	12	570	626	552
Percent	100.0	25.0	20.3	53.2	38.6	40.4

Figure 6 Change in pain benchmark measures - all phases

Pain PSS



Measure 1: Absent/mild pain at both start and end of phase

Pain PSS



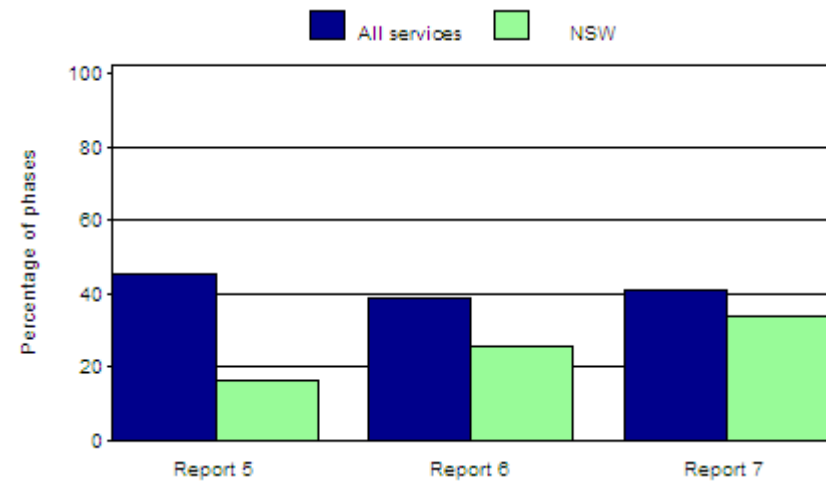
Measure 2: Mod/severe pain at start with absent/mild pain at end

Pain SAS



Measure 1: Absent/mild pain at both start and end of phase

Pain SAS



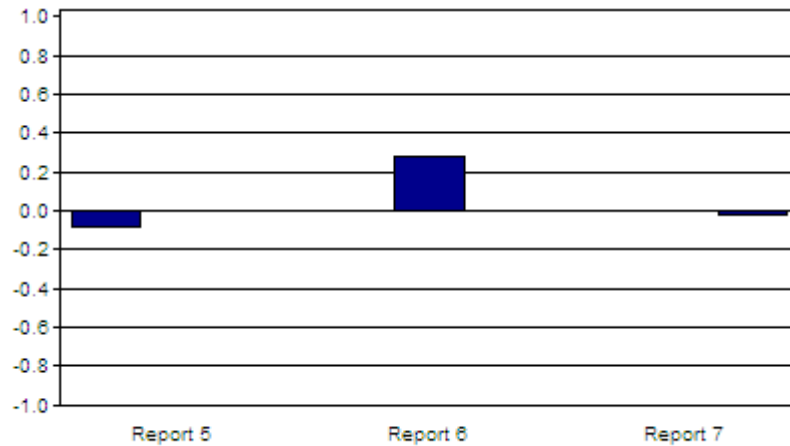
Measure 2: Mod/severe pain at start with absent/mild pain at end

Benchmark Measure 4 - Change in symptoms relative to the national average

Please refer to the glossary section on page 51 for a detailed explanation of the following analysis.

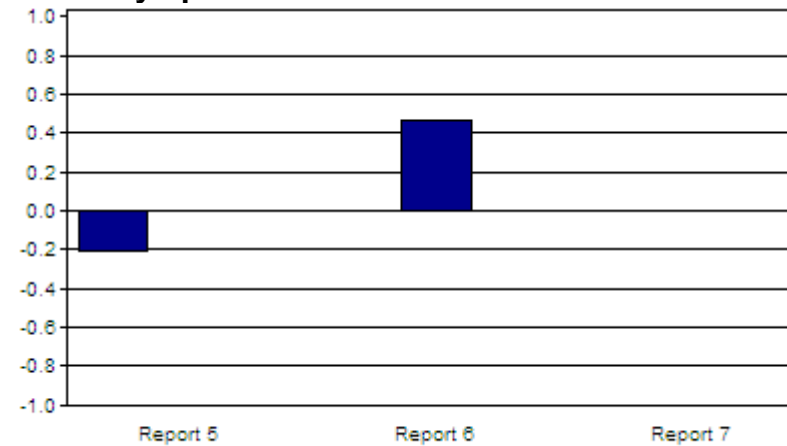
Figure 7 PCPSS mean change adjusted for phase and symptom score at start of phase for NSW

Pain



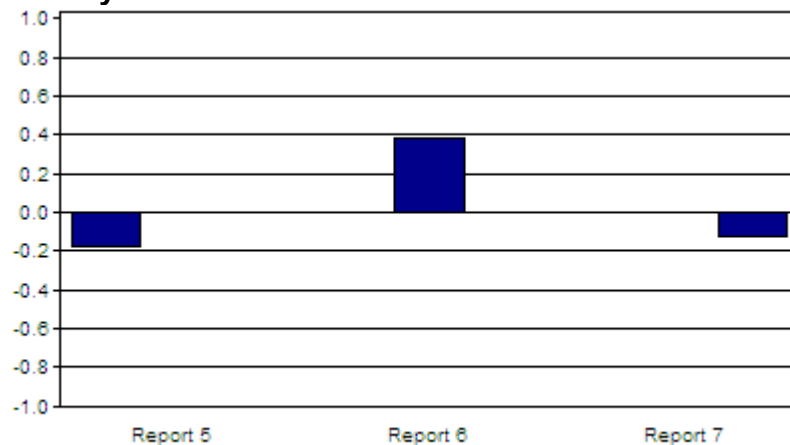
Only services with 10 or more valid observations are included in this graph

Other symptoms



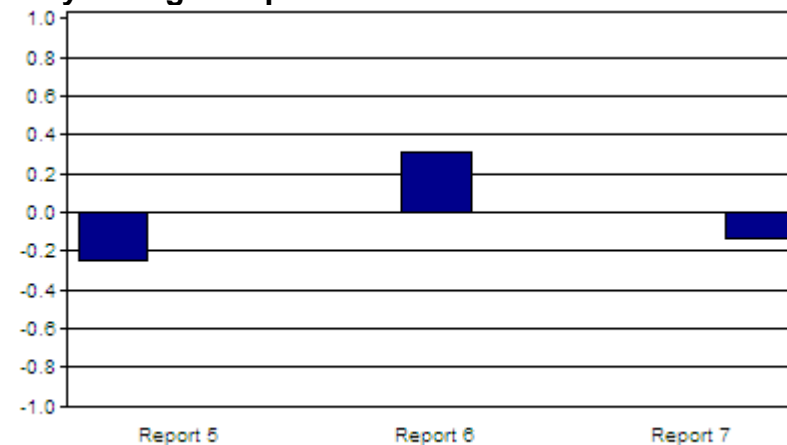
Only services with 10 or more valid observations are included in this graph

Family/Carer



Only services with 10 or more valid observations are included in this graph

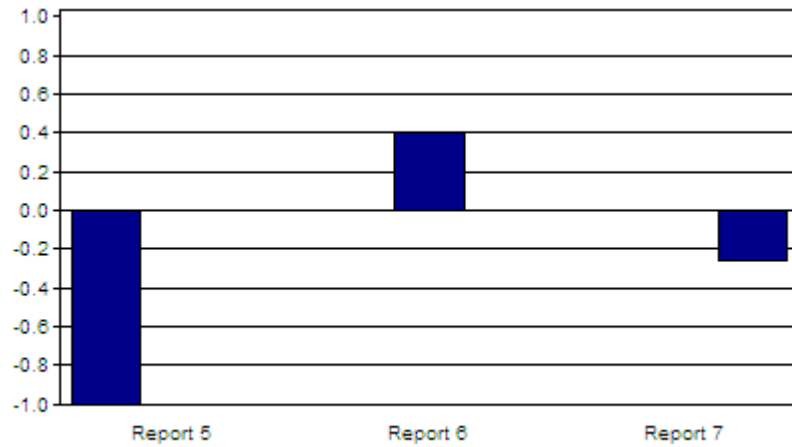
Psychological/spiritual



Only services with 10 or more valid observations are included in this graph

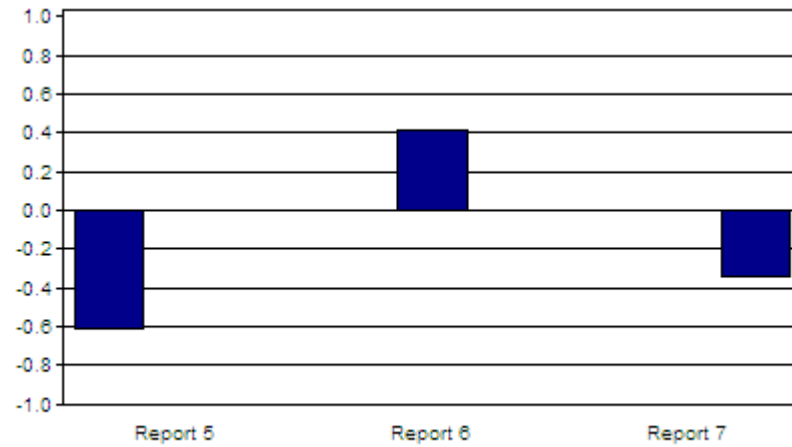
Figure 8 SAS mean change adjusted for phase and symptom score at start of phase for NSW

Pain



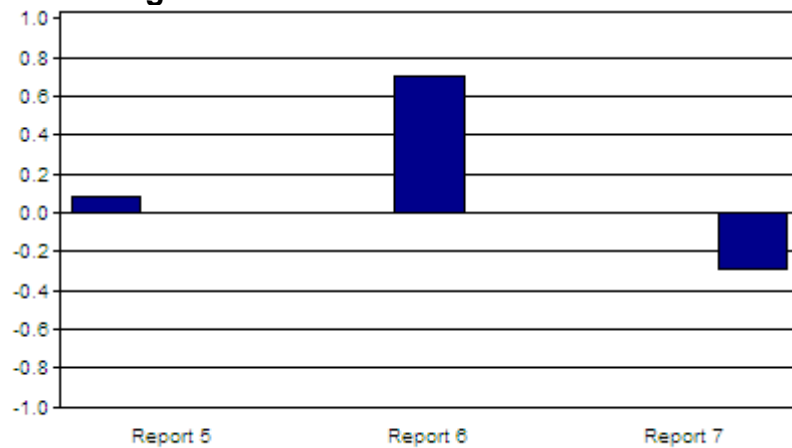
Only services with 10 or more valid observations are included in this graph

Nausea



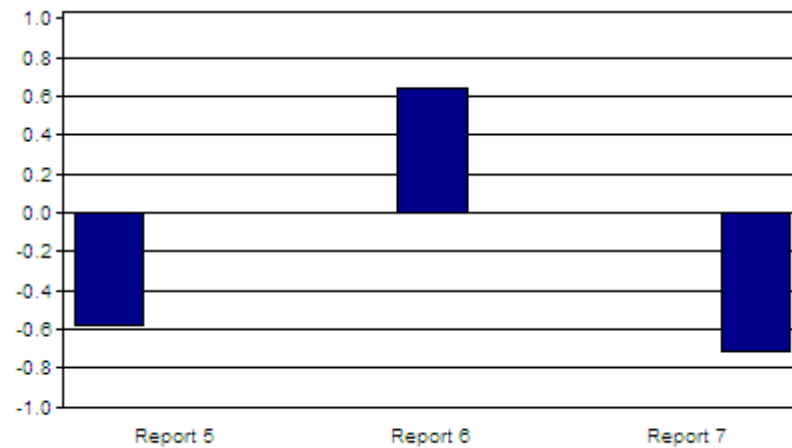
Only services with 10 or more valid observations are included in this graph

Breathing



Only services with 10 or more valid observations are included in this graph

Bowels



Only services with 10 or more valid observations are included in this graph

Appendix 1 - Services included in this report

This report presents data from the following 86 services:

Table 32 *Services providing data*

Palliative Care Service	State	Begin date	End date	Months
Baringa Private Hospital	NSW	January 2009	June 2009	6
Calvary Health Care Sydney	NSW	January 2009	June 2009	6
Calvary Mater Newcastle	NSW	January 2009	June 2009	6
Camden Hospital	NSW	January 2009	June 2009	6
Coffs Harbour Palliative Care Service	NSW	January 2009	June 2009	6
David Berry Hospital	NSW	January 2009	June 2009	6
Grafton Community Health - Palliative Care Service	NSW	January 2009	June 2009	6
Hope Healthcare - Braeside Hospital	NSW	January 2009	June 2009	6
Hope Healthcare - Greenwich Hospital	NSW	January 2009	June 2009	6
Hope Healthcare - Neringah Hospital	NSW	January 2009	June 2009	6
Lourdes Hospital	NSW	January 2009	June 2009	6
Manning Rural Referral Hospital	NSW	January 2009	June 2009	6
Mercy Care Centre - Young	NSW	January 2009	June 2009	6
Mercy Health Service Albury	NSW	January 2009	June 2009	6
Mt Druitt Hospital	NSW	January 2009	June 2009	6
Port Kembla Hospital	NSW	January 2009	June 2009	6
Sacred Heart Palliative Care Service	NSW	January 2009	June 2009	6
St Joseph's Hospital	NSW	February 2009	June 2009	5
St Vincent's Hospital Lismore	NSW	January 2009	June 2009	6
Tamworth Base Hospital	NSW	January 2009	June 2009	6
Tweed, Byron, Murwillumbah Community	NSW	January 2009	June 2009	6
Westmead Hospital	NSW	January 2009	June 2009	6

Continued...

Palliative Care Service	State	Begin date	End date	Months
Broad Meadows Palliative Care	Vic	March 2009	June 2009	4
Caritas Christi - Fitzroy	Vic	January 2009	June 2009	6
Caritas Christi - Kew	Vic	January 2009	June 2009	6
Gandarra Palliative Care Unit - Ballarat	Vic	January 2009	June 2009	6
Lower Hume Palliative Care	Vic	April 2009	June 2009	3
Melbourne City Mission	Vic	June 2009	June 2009	1
Mercy Palliative Care	Vic	January 2009	June 2009	6
Mercy Palliative Care - Medical Consultant	Vic	January 2009	June 2009	6
Peter MacCallum Cancer Centre	Vic	January 2009	June 2009	6
Werribee Mercy Hospital	Vic	January 2009	June 2009	6
Western Health Footscray	Vic	January 2009	June 2009	6
Western Health Sunshine	Vic	February 2009	April 2009	3
Western Hospital Community	Vic	January 2009	June 2009	6
Bundaberg Palliative Access	Qld	January 2009	June 2009	6
Cairns and Gordonvale Hospital	Qld	January 2009	June 2009	6
Canossa Private Hospital	Qld	January 2009	June 2009	6
Gladstone Hospital	Qld	January 2009	June 2009	6
Hervey Bay & Fraser Coast Palliative Care Service	Qld	January 2009	June 2009	6
Hopewell Hospice	Qld	January 2009	June 2009	6
Ipswich Hospice	Qld	January 2009	June 2009	6
Ipswich Hospital	Qld	January 2009	June 2009	6
Karuna Hospice Services	Qld	January 2009	June 2009	6
Logan - Beaudesert Hospital	Qld	March 2009	June 2009	4
Mater Adult's Brisbane	Qld	January 2009	June 2009	6
Mater Private Brisbane	Qld	January 2009	June 2009	6
Mater Private Bundaberg	Qld	January 2009	June 2009	6
Mater Private Gladstone	Qld	January 2009	June 2009	6

Continued...

Palliative Care Service	State	Begin date	End date	Months
Mater Private Mackay	Qld	January 2009	June 2009	6
Mater Private Rockhampton	Qld	January 2009	June 2009	6
Mater Private Yeppoon	Qld	February 2009	May 2009	4
Mt Isa and Surrounds Palliative Care	Qld	January 2009	June 2009	6
Redcliffe Hospital Palliative Care Unit	Qld	January 2009	June 2009	6
Rockhampton Base Hospital	Qld	January 2009	June 2009	6
Royal Brisbane and Women's Hospital	Qld	January 2009	June 2009	6
St Vincent's Hospital Brisbane	Qld	January 2009	June 2009	6
Sunshine Coast and Cooloola Palliative Care Service	Qld	January 2009	June 2009	6
The Prince Charles Hospital	Qld	January 2009	June 2009	6
Toowoomba Hospital	Qld	April 2009	June 2009	3
Townsville Palliative Care Centre	Qld	January 2009	June 2009	6
Townsville Spiritus	Qld	January 2009	June 2009	6
Adelaide Hills Community Health Service	SA	January 2009	June 2009	6
Calvary Health Care Adelaide (Mary Potter Hospice)	SA	January 2009	June 2009	6
Lyell McEwin Palliative Care Service	SA	January 2009	June 2009	6
Modbury Hospice SA	SA	January 2009	June 2009	6
Port Pirie Regional Health Service	SA	January 2009	June 2009	6
Royal Adelaide Hospital	SA	January 2009	June 2009	6
South East Regional Community Health Service	SA	January 2009	June 2009	6
Southern Adelaide Palliative Care Service	SA	January 2009	June 2009	6
Yorke Peninsula Palliative Care	SA	January 2009	May 2009	5
Albany Palliative Care Service	WA	January 2009	June 2009	6
Bethesda Hospital	WA	January 2009	June 2009	6
Geraldton Palliative Care Community Service	WA	January 2009	June 2009	6
Kalgoorlie Regional Hospital - Restorative Care Unit	WA	January 2009	June 2009	6
Peel Community Palliative Care Service	WA	January 2009	June 2009	6

Continued...

Palliative Care Service	State	Begin date	End date	Months
Royal Perth Hospital	WA	January 2009	June 2009	6
SJOG Health Care - Geraldton	WA	January 2009	June 2009	6
Silver Chain Hospice Care Service	WA	January 2009	June 2009	6
Sir Charles Gairdner Hospital	WA	January 2009	June 2009	6
St John of God Murdoch Community Hospice	WA	January 2009	June 2009	6
St John of God Subiaco	WA	March 2009	June 2009	4
Calvary Health Care Tasmania - St John's	Tas	January 2009	June 2009	6
Calvary Health Care Tasmania - St Lukes	Tas	January 2009	March 2009	3
Whittle Ward Palliative Care	Tas	January 2009	June 2009	6
Calvary Health Care Canberra (Clare Holland House)	ACT	January 2009	June 2009	6

Appendix 2 - Data consistency

Consistency with PCOC version 2 data standards is summarised below. Over this 6 month period consistency with patient, episode and phase level data items for NSW and for all services has been calculated. Consistency refers to completion of data items used within this report with valid entries based on the PCOC version 2 item codes.

In addition, some data items are not required to be completed, for example, place of death is only required for not admitted overnight patients who died. Hence the complete column in the following tables only refers to the percentage of complete records where the data item was required to be completed.

Table 33 *Data consistency - patient level items*

Data Item	NSW	All Services
	% Complete	% Complete
Date of Birth	100.0	100.0
Sex	100.0	99.8
Indigenous Status	97.7	97.8
Country of birth	97.7	96.8
Main language	79.6	91.6

Table 34 Data consistency - episode level items

Data Item	NSW	All Services
	% Complete	% Complete
Date of first contact/assessment	69.8	90.0
Referral date	78.3	84.6
Referral source	71.7	91.0
Episode start date	100.0	100.0
Mode of episode start	100.0	99.2
Accommodation at episode start	79.6	87.4
Diagnosis	72.1	90.2
Episode end date	100.0	100.0
Level of support at episode start	57.7	76.7
Mode of episode end	98.9	96.8
Accommodation at episode end	56.9	70.7
Level of support at episode end	89.2	93.8
Place of death	97.2	90.2

Table 35 Data consistency - phase level items

Data item	Sub-Category (where applicable)	NSW %Complete	All Services %Complete
Phase start date		100.0	100.0
Phase		100.0	100.0
RUG-ADL at phase start	Bed Mobility	100.0	88.8
	Toileting	100.0	88.8
	Transfers	100.0	88.8
	Eating	99.9	88.8
PC Problem Severity at phase start	Pain	80.5	61.1
	Other Symptom	85.4	62.5
	Psychological/Spiritual	90.1	83.7
	Family/Carer	90.1	83.5
Symptom Assessment Score at phase start	Insomnia	46.4	80.0
	Appetite	46.4	79.7
	Nausea	46.4	80.6
	Bowels	46.4	80.2
	Breathing	46.4	80.5
	Fatigue	46.4	80.2
	Pain	46.4	80.7
Phase end reason		99.1	99.4
Karnofsky at phase start		57.6	74.0

Appendix 3 – Glossary

Overnight admitted and not overnight admitted groups

Where appropriate, the analysis in this report has been reported by episode type. The PCOC definition of episode type is “The location of the patient for this episode”. The options are as follows:

- 0 Overnight admitted patient in a non-designated inpatient palliative care bed/unit
- 1 Overnight admitted patient in a designated inpatient palliative care bed/unit.
- 3 Ambulatory
- 4 Community
- 5 Consultation service

These 5 options have been grouped into 2 for the purpose of reporting. The 2 groups are as follows:

- Overnight admitted Includes episode types 0 and 1
- Not admitted overnight Includes episode types 3, 4 and 5

However, consultation services have been difficult to categorise into the above groups. Consultation services have been included in the overnight admitted group, with the exception of services identifying as outpatient or community consultancy which have been included in the not admitted overnight group. Consultation services that treat patients in a hospital bed have been instructed to tick “0” or “1” for the episode type field. Consultation services that treat patients in an outpatient setting or in the community have been instructed to tick “5” for the episode type field.

Episode of care

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 (either overnight admitted patient or not overnight patient). When a patient moves from their home to a residential aged care facility (RACF) it is considered their home and the episode continues.

An episode of care refers to the care received between admission and separation 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 or
- when the patient is formally separated from the hospital/hospice/community.

Phase of care

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 and have been shown to correlate strongly with survival within longitudinal, prospective studies. There are 5 palliative care phases; stable, unstable, deteriorating, terminal and bereaved. The definitions are as follows:

Phase 1: Stable

All clients not classified as unstable, deteriorating, or terminal.

- The person's symptoms are adequately controlled by established management. Further interventions to maintain symptom control and quality of life have been planned.
- The situation of the family/carers is relatively stable and no new issues are apparent. Any needs are met by the established plan of care.

Phase 2: Unstable

- The person experiences the development of a new unexpected problem or a rapid increase in the severity of existing problems, either of which require an urgent change in management or emergency treatment
- The family/carers experience a sudden change in their situation requiring urgent intervention by members of the multidisciplinary team.

Phase 3: Deteriorating

- The person experiences a gradual worsening of existing symptoms or the development of new but expected problems. These require the application of specific plans of care and regular review but not urgent or emergency treatment.
- The family/carers experience gradually worsening distress and other difficulties, including social and practical difficulties, as a result of the illness of the person. This requires a planned support program and counselling as necessary.

Phase 4: Terminal

Death is likely in a matter of days and no acute intervention is planned or required. The use of frequent, usually daily, interventions aimed at physical, emotional and spiritual issues is required.

The typical features of a person in this phase may include the following:

- Profoundly weak
- Essentially bed bound
- Drowsy for extended periods
- Disoriented for time and has a severely limited attention span
- Increasingly disinterested in food and drink
- Finding it difficult to swallow medication
- The family/carers recognise that death is imminent and care is focussed on emotional and spiritual issues as a prelude to bereavement.

Phase 5: Bereaved

Death of the patient has occurred and the carers are grieving. A planned bereavement support program is available including referral for counselling as necessary. Record only one bereavement phase per patient - not one for each carer/family member.

Resource Utilisation Groups- Activities of Daily Living Definitions (RUG-ADL)

RUG-ADL consists of 4 items (bed mobility, toileting, transfers and eating) and should be assessed on admission, at phase change and at episode end. The item score definitions are as follows:

RUG –ADL Item	Score	Definition
BED MOBILITY		Ability to move in bed after the transfer into bed has been completed.
Independent or supervision only	1	Able to readjust position in bed, and perform own pressure area relief, through spontaneous movement around bed or with prompting from carer. No hands-on assistance required. May be independent with the use of a device.
Limited physical assistance	3	Able to readjust position in bed, and perform own pressure area relief, with the assistance of one person.
Other than two persons physical assist	4	Requires the use of a hoist or other assistive device to readjust position in bed and provide pressure relief. Still requires the assistance of one person for task.
Two or more persons physical assist	5	Requires 2 or more assistants to readjust position in bed, and perform pressure area relief.
TOILETING		Includes mobilising to the toilet, adjustment of clothing before and after toileting and maintaining perineal hygiene without the incidence of incontinence or soiling of clothes. If level of assistance differs between voiding and bowel movement, record the lower performance.
Independent or supervision only	1	Able to mobilise to toilet, adjusts clothing, cleans self, has no incontinence or soiling of clothing. All tasks are performed independently or with prompting from carer. No hands-on assistance required. May be independent with the use of a device. May be independent with the use of a device.
Limited physical assistance	3	Requires hands-on assistance of one person for one or more of the tasks.
Other than two persons physical assist	4	Requires the use of a catheter/uridome/urinal and/or colostomy/bedpan/commode chair and/or insertion of enema/ suppository. Requires assistance of one person for management of the device.
Two or more persons physical assist	5	Requires two or more assistants to perform any step of the task.
TRANSFER		Includes the transfer in and out of bed, bed to chair, in and out of shower/tub. Record the lowest performance of the day/night.
Independent or supervision only	1	Able to perform all transfers independently or with prompting of carer. No hands-on assistance required. May be independent with the use of a device.
Limited physical assistance	3	Requires hands-on assistance of one person to perform any transfer of the day/night.
Other than two persons physical assist	4	Requires use of a device for any of the transfers performed in the day/night. Requires only one person plus a device to perform the task.
Two or more persons physical assist	5	Requires 2 or more assistants to perform any transfer of the day/night.
EATING		Includes the tasks of cutting food, bringing food to mouth and chewing and swallowing food. Does not include preparation of the meal.
Independent or supervision only	1	Able to cut, chew and swallow food, independently or with supervision, once meal has been presented in the customary fashion. No hands-on assistance required. If individual relies on parenteral or gastrostomy feeding that he/she administers him/herself then Score 1.
Limited assistance	2	Requires hands on assistance of one person to set up or assist in bringing food to the mouth and/or requires food to be modified (soft or staged diet).
Extensive assistance/dependence/ tube fed	3	Person needs to be fed meal by assistant, or the individual does not eat or drink full meals by mouth but relies on parenteral/ gastrostomy feeding and does not administer feeds by him/herself.

PC Problem Severity Score (PCPSS)

The problem severity is an overall score of the patient/client and family and contains 4 items. The 4 items are:

1. Pain
2. Other symptoms
3. Psychological/spiritual
4. Family/carer

Each item is given a score from 0-3:

0 = Absent

1 = Mild

2 = Moderate

3 = Severe

Karnofsky (Australian) Performance Scale

The Karnofsky used in PCOC is the Australian (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 to indicate prognosis. The Karnofsky is often used in determining prognosis / survival times. The Karnofsky Performance Scale Definition Criteria is as follows:

100	Normal; no complaints; no evidence of disease
90	Able to carry on normal activity; minor signs of symptoms of disease
80	Normal activity with effort; some signs or symptoms of disease
70	Cares for self. Unable to carry on normal activity or to do active work
60	Able to care for most needs, but requires occasional assistance.
50	Requires considerable assistance and frequent medical care required.
40	In bed more than 50% of the time.
30	Almost completely bedfast.
20	Totally bedfast and requiring extensive nursing care by professionals and/or family.
10	Comatose or barely rousable.
0	Dead

Symptom Assessment Scale (SAS)

There are 7 items (symptoms) in total and each one is given a score between 0-10 (not at all to worst possible). The 7 symptoms are insomnia, appetite, nausea, bowels, breathing, fatigue and pain. Symptoms are rated by the patient/client except where they are unable due to language barrier, hearing impairment or physical condition such as terminal phase or delirium, in which case a proxy is used. Use the most appropriate proxy. This may be the nurse or the family member. Highly rated or problematic symptoms may trigger other assessments or clinical interventions.

Change in symptoms relative to the national average

These are measures of the mean change in symptoms on the PCPSS/SAS that are adjusted for both phase and for the symptom score at the start of each phase (note bereavement phases are excluded from the analysis). Therefore it is only able to be calculated on patients who either had a subsequent phase within the reporting period or were discharged. In other words it is a case mix adjusted score where we compare the change in symptom score for 'like' patients i.e. patients in the same phase who started with the same level of symptom.

This measure has been abbreviated to XCAS where X represents the symptom analysed. For example PCAS represents the Pain Case Mix Adjusted Score. Eight symptoms have been included in 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

Your service is then able to see if you are doing the same, better or worse than the national average for similar patients. The baseline period for calculating the national averages is July-December 2008 (report 6 period) and this will remain as such for the next 2 years (until January 2011). On a national basis this means the change in symptoms relative to the national average for the report 6 period will be zero.

- If X-CAS for your service > 0
on average, your patients' change in symptom was better than similar patients in the national database.
- If X-CAS for your service = 0

On average, your patients' change in symptom was about the same as similar patients in the database.

- If X-CAS for your service < 0

On average, your patients' change in symptom was worse than similar patients in the database

The mathematical algorithm and calculations are demonstrated below:

- Calculate the average change for all patients in the same phase and with the same symptom start score (each symptom class). This is the **expected** change.
- For each patient's phase, calculate their change in symptom score
- For each patient's phase, calculate the difference between their symptom score change and the average change for all patients in the same phase and with the same symptom start score
- Average across the service to produce the service's Symptom Casemix-Adjusted Score (i.e. PCAS)

Example:

Phase	PCPSS Pain start	PCPSS Pain change	Expected PCPSS Pain change	Difference
Stable	0	-1	-0.8	-0.2
Stable	1	0	-0.9	0.9
Unstable	3	2	1.6	0.4
Deteriorating	2	1	1.4	-0.4
PCAS = 0.175 [(-0.2+0.9+0.4-0.4)/4]				

If you would like further clarification regarding any of the analysis throughout this report, please contact PCOC at pcoc@uow.edu.au.

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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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