

Hospital Quarterly

Activity and performance in NSW public hospitals

July to September 2015



BUREAU OF HEALTH INFORMATION

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State Health Publication Number: (BHI) 150634

ISSN: 1838-3238

Suggested citation:

Bureau of Health Information.
Hospital Quarterly — Activity and performance in NSW public hospitals, July to September 2015
Sydney (NSW); BHI; 2015.

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Published December 2015

Hospital Quarterly reports present data at the point in time when data become available to BHI. Changes in the data from quarter to quarter mean that figures published in this document will be superseded by subsequent reports.

At any time, the most up-to-date data is available on BHI's interactive online portal, Healthcare Observer, at **bhi.nsw.gov.au/healthcare_observer**

Please note that there is the potential for minor revisions of data in this report.
Please check the online version at **bhi.nsw.gov.au** for any amendments.

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Introduction

Every day around 25,000 people receive care in the NSW public hospital system. *Hospital Quarterly* is a series of regular reports that tracks services provided to the people of NSW and the timeliness with which they are provided.

The *Hospital Quarterly* report is structured around two key types of measures; activity and performance. Activity measures are used to describe the volume and type of services provided, while performance measures are used to describe the timeliness of service provision.

Within the section on activity, data are provided for emergency department (ED) presentations; hospital admissions; and elective surgery procedures (Figure i). Within the section on performance, data are provided for ED presentations and elective surgery procedures (Figure ii).

Hospital Quarterly appendix tables provide information about activity and performance in NSW public hospitals at a state, local health district (LHD), peer group and individual hospital level. Additional and comparative information about activity and performance in NSW public hospitals is available on the BHI interactive online portal, Healthcare Observer, at bhi.nsw.gov.au/healthcare_observer

About the data

The data used in *Hospital Quarterly* analyses are transmitted by the state's hospitals to centralised data warehouses administered by the NSW Ministry of Health. Hospital admission and ED data in this report were extracted from the NSW Health Information Exchange (HIE) on 16 and 23 October 2015 respectively. Elective surgery data were extracted from the Waiting List Collection On-line System (WLCOS) on 16 October 2015.

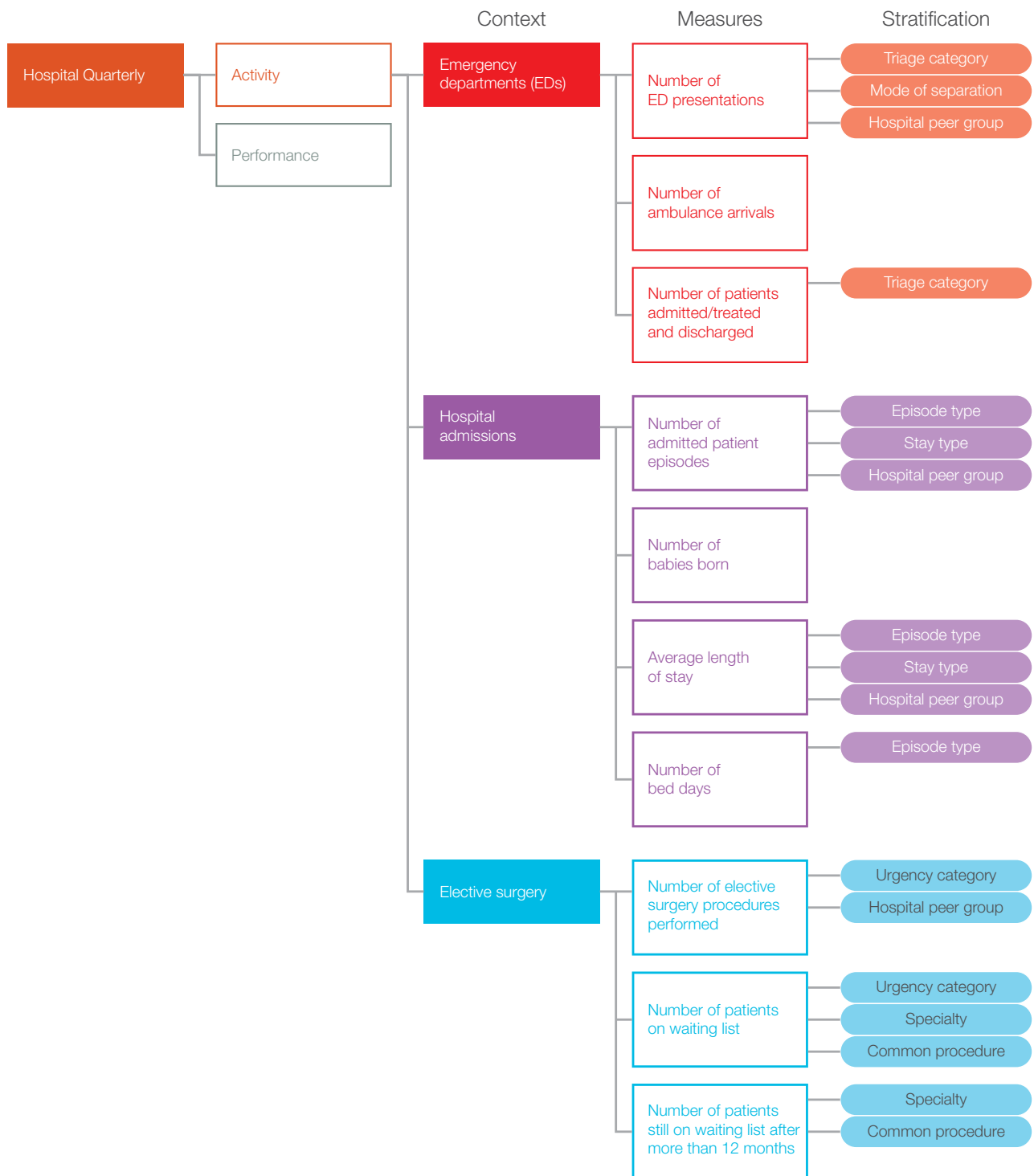
ED data are drawn from the Emergency Department Data Collection (EDDC). While not all EDs have systems in place to supply records to the EDDC, data coverage has increased over time. The ED data in this report cover 131 facilities for which consistent data have been reported to the EDDC for at least five quarters. These account for approximately 98% of all records in the EDDC and approximately 95% of ED presentations in NSW.

Hospital Quarterly reports on the percentage of patients who left the ED within four hours of presentation. Due to differences in data definitions, period of reporting and the number of hospitals included, *Hospital Quarterly* results, for this measure, are not directly comparable to figures reported by the NSW Ministry of Health or the Commonwealth. For more information refer to the technical supplements section of the BHI website at bhi.nsw.gov.au

Hospital admission data includes hospitalisations in public hospitals, privately managed hospitals contracted to supply services for public patients, public multi-purpose services, and public psychiatric hospitals. Non-admitted patients (including community residential care), organ donors (posthumously admitted), and hospital boarders are not included in these data. Newborn babies who are aged nine days or less at the time of admission and who do not require treatment for health problems are also not included in these data.

Elective surgery data include procedures performed during the quarter, and patients currently on the waiting list to receive surgery.

Figure i Hospital activity measures included in this report



About the measures

Hospital Quarterly uses a number of measures to report activity and performance in NSW public hospitals (Figures i and ii). Where the focus is on measuring activity, numbers and percentages are commonly used. Where the focus is on measuring performance in terms of timeliness of care (for example, waiting times for treatment in the ED or for elective surgery), the median and 90th or 95th percentile times are used. Timeliness is also reported using the percentage of patients receiving care within a defined time period. For example, the percentage of patients who arrived by ambulance that had their care transferred within 30 minutes, the percentage of patients leaving the ED within four hours, and the percentage of elective surgery performed within recommended timeframes are reported.

About the analyses

The data specifications and analytic methods used for *Hospital Quarterly* are described in the technical supplements section of the BHI website at bhi.nsw.gov.au

Hospital Quarterly includes a number of commonly used terms and classifications to describe activity and performance across EDs, hospital admissions and elective surgery. These are described in Table 4 (page 49).

Making direct comparisons of activity and performance between hospitals is not straightforward. For valid comparisons to be made it is important to consider similar hospitals together. To do this, *Hospital Quarterly* uses a NSW Health classification system called 'hospital peer groups' as the basis for comparison (Table 1). An index of NSW public hospitals by LHD and hospital peer group can be found on page 53 of this report.

Urgency categories should also be considered in making fair comparisons in activity and performance across EDs and for elective surgery. See Table 4 (page 49) for a description of ED triage categories and elective surgery urgency categories.

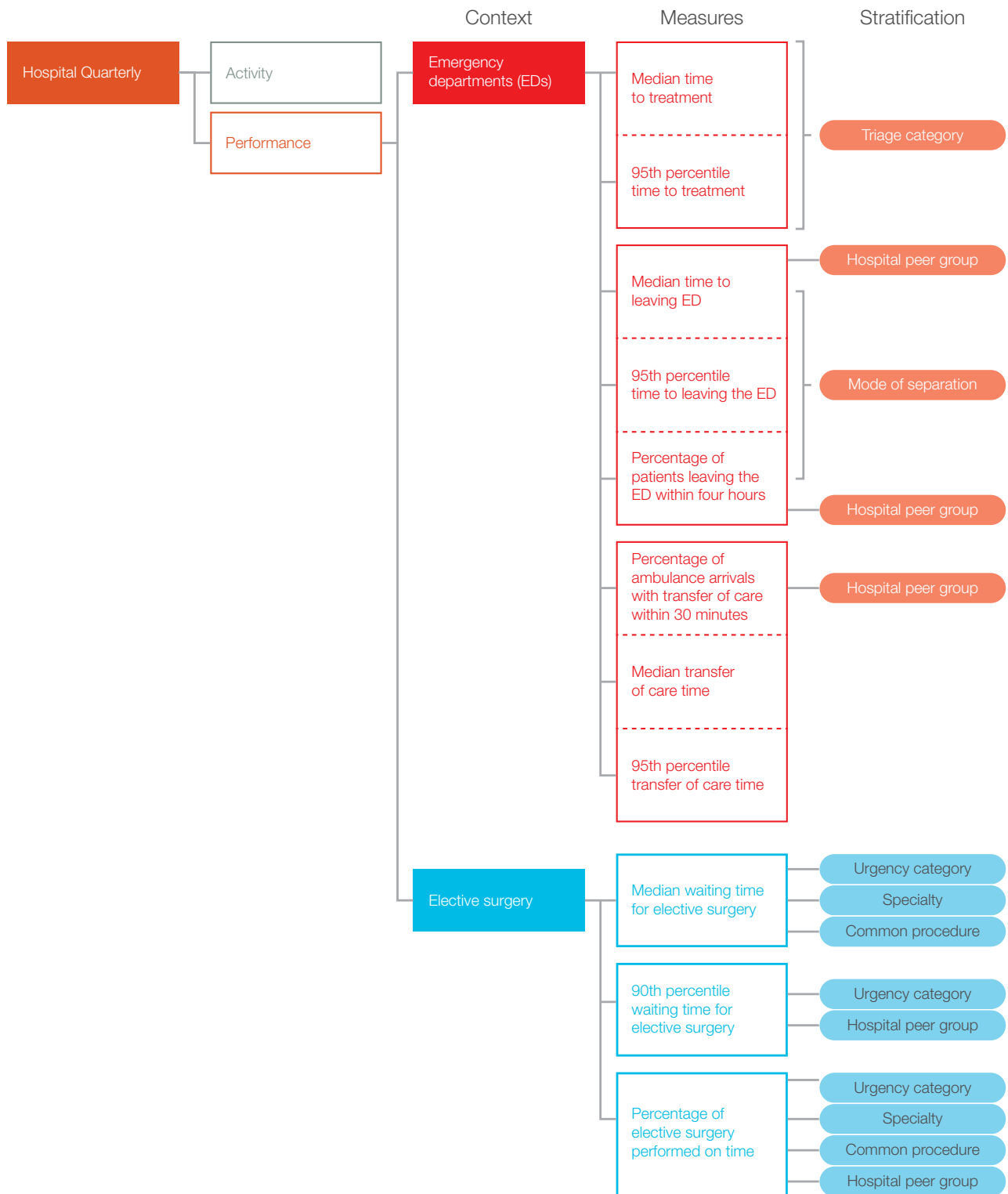
Percentages in this report are rounded and therefore may not sum to 100%. Percentages greater than 99.5% are rounded to 100%.

Table 1 **NSW public hospital peer groups**

| Peer group | Name | Description |
|------------|-------------------------------------|---|
| A1 | Principal referral | Very large hospitals providing a broad range of services, including specialised units at a state or national level. |
| A2 | Paediatric specialist | Specialist hospitals for children and young people. |
| A3 | Ungrouped acute – tertiary referral | Major specialist hospitals that are not similar enough to any other peer group to be classified with them. |
| B | Major | Large metropolitan and non-metropolitan hospitals. |
| C1 | District group 1 | Medium sized hospitals treating between 5,000–10,000 patients each year. |
| C2 | District group 2 | Smaller hospitals typically in rural locations. |

Figure ii

Hospital performance measures included in this report



Key findings

Hospital activity measures – July to September 2015

How many people presented at NSW emergency departments?

Compared with the same quarter last year:

- 21,746 more patients presented to NSW emergency departments (EDs) (648,668 presentations in total; up 3%). Most presentations (96%) were unplanned (emergency presentations).
- 5,251 more patients were in triage category two (up 7%), 12,887 more were in triage category three (up 6%), 4,522 more were in triage category four (up 2%) and 1,270 less were in triage category five (down 2%)
- 22% of patients who presented at the ED arrived by ambulance (141,322 patients in total; down 3%).

Where did patients go after leaving the emergency department?

Compared with the same quarter last year:

- 62% of ED patients were treated and discharged (12,925 more than the same quarter last year)
- 28% were treated and admitted to hospital (5,020 more patients)
- 6% left without, or before completing, treatment (3,647 more patients)
- 2% were transferred to another hospital (497 more patients).

How many patients were admitted to public hospitals?

Compared with the same quarter last year:

- There were 6,022 more admitted patient episodes (474,568 episodes in total; up 1%). Most (96%) were acute care episodes.
- Over half of all acute admitted patient episodes (55%) were for overnight care and the remainder were for same-day care

- 29,185 more bed days were recorded (1,760,446 bed days in total; up 2%), and the total number of acute bed days (1,461,001) increased by 2%
- The average length of stay for an acute overnight admitted patient episode (5.1 days); 0.1 days longer
- 18,287 babies in total were born in NSW public hospitals; unchanged.

How many elective surgery procedures were performed?

Compared with the same quarter last year:

- 3% fewer elective surgery procedures were performed (56,503 procedures in total). Of all elective surgery procedures performed this quarter:
 - 12,421 (22%) were categorised as urgent
 - 18,384 (33%) were categorised as semi-urgent
 - 23,094 (41%) were categorised as non-urgent
 - 2,604 (5%) were categorised as staged.

How many patients were on the waiting list for elective surgery?

Compared with the same quarter last year:

- 1% more people were ready for surgery and on the elective surgery waiting list at the end of the quarter (73,397 in total). Of these:
 - 1,689 people (2%) were waiting for urgent surgery
 - 12,253 (17%) were waiting for semi-urgent surgery
 - 59,455 (81%) were waiting for non-urgent surgery.
- More people were still waiting for surgery at the end of the quarter across all urgency categories (all up 1%) .

Table 2 provides a summary of NSW public hospital activity measures for July to September 2015.

Table 2

Summary of NSW public hospital activity measures, July to September 2015

| Emergency department activity | | July to September 2014 | July to September 2015 | Difference | % change |
|---|--------------------------|------------------------|------------------------|------------|----------|
| All arrivals at NSW EDs by ambulance | | 145,693 | 141,322 | -4,371 | -3% |
| All ED presentations | | 626,922 | 648,668 | 21,746 | 3% |
| Emergency presentations | | 603,468 | 624,976 | 21,508 | 4% |
| Emergency presentations by triage category | | | | | |
| Triage category | T1: Resuscitation | 4,317 | 4,435 | 118 | 3% |
| | T2: Emergency | 70,890 | 76,141 | 5,251 | 7% |
| | T3: Urgent | 201,287 | 214,174 | 12,887 | 6% |
| | T4: Semi-urgent | 263,268 | 267,790 | 4,522 | 2% |
| | T5: Non-urgent | 63,706 | 62,436 | -1,270 | -2% |
| Admissions to hospital from NSW EDs | | 176,381 | 181,401 | 5,020 | 3% |
| Admitted patient activity | | July to September 2014 | July to September 2015 | Difference | % change |
| All admitted patient episodes | | 468,546 | 474,568 | 6,022 | 1% |
| All acute episodes | | 449,559 | 455,063 | 5,504 | 1% |
| Overnight episodes | | 244,832 | 248,095 | 3,263 | 1% |
| Same-day episodes | | 204,727 | 206,968 | 2,241 | 1% |
| Non-acute episodes | | 18,987 | 19,505 | 518 | 3% |
| Average length of stay (days) | All acute episodes | 3.2 | 3.2 | 0 | 0% |
| | Acute overnight episodes | 5 | 5.1 | 0.1 | 2% |
| | Non-acute episodes | 15.6 | 15.4 | -0.2 | -1% |
| Hospital bed days | All bed days | 1,731,261 | 1,760,446 | 29,185 | 2% |
| | Acute bed days | 1,435,945 | 1,461,001 | 25,056 | 2% |
| | Non-acute bed days | 295,316 | 299,445 | 4,129 | 1% |
| Babies born in NSW public hospitals | | 18,290 | 18,287 | -3 | 0% |
| Elective surgery activity | | July to September 2014 | July to September 2015 | Difference | % change |
| Elective surgery procedures performed | | 58,495 | 56,503 | -1,992 | -3% |
| Urgency category | Urgent surgery | 12,764 | 12,421 | -343 | -3% |
| | Semi-urgent surgery | 18,696 | 18,384 | -312 | -2% |
| | Non-urgent surgery | 23,465 | 23,094 | -371 | -2% |
| Patients on waiting list ready for elective surgery at end of quarter | | 72,387 | 73,397 | 1,010 | 1% |
| Urgency category | Urgent surgery | 1,680 | 1,689 | 9 | 1% |
| | Semi-urgent surgery | 12,097 | 12,253 | 156 | 1% |
| | Non-urgent surgery | 58,610 | 59,455 | 845 | 1% |

Key findings

Hospital performance measures – July to September 2015

How long did patients wait for ED treatment?

Compared with the same quarter last year:

- The percentage of patients that had their care transferred from ambulance to ED staff within 30 minutes was two percentage points higher at 82%
- The median time from presentation at the ED to starting treatment was largely unchanged across all triage categories
- The 95th percentile time to starting treatment increased for patients in triage categories two, three, four and five (four, six, eight and seven minutes longer respectively).

How long were patients in the ED?

Compared with the same quarter last year:

- The median time to leaving the ED was three minutes longer and 95th percentile time to leaving was seven minutes shorter
- There was a decrease in the percentage of patients who left the ED within four hours (70% this quarter; down one percentage point)
- The percentage of patients leaving within four hours increased in 36 out of 81 hospitals, compared with the same quarter last year. Four hospitals increased more than five percentage points.
- The percentage of patients leaving within four hours decreased in 38 hospitals, compared with the same quarter last year. Five hospitals decreased more than five percentage points; with one that decreased more than 10 percentage points.

How long did patients wait for elective surgery?

Compared with the same quarter last year:

- The median waiting times for urgent and semi-urgent elective surgery increased by one day (11 and 45 days respectively), while the median waiting time for non-urgent surgery increased by five days to 221 days.
- The 90th percentile waiting time for urgent elective surgery increased by one day (26 days), and was unchanged for semi-urgent and non-urgent surgery (83 and 356 days respectively).

Was elective surgery performed on time?

Compared with the same quarter last year:

- The percentage of elective surgery performed within recommended timeframes was unchanged at 97%. This included:
 - 100% of urgent surgery (unchanged)
 - 97% of semi-urgent surgery (unchanged)
 - 95% of non-urgent surgery (down one percentage point).
- The percentage of elective surgery performed on time increased in 25 out of 83 hospitals, compared with the same quarter last year. Three hospitals increased more than five percentage points; including two that increased more than 10 percentage points.
- The percentage of elective surgery performed on time decreased in 22 hospitals, compared with the same quarter last year. Four hospitals decreased more than five percentage points; including two that decreased more than 10 percentage points.

- Among specialties:
 - Vascular surgery and medical (non-specialist) surgery had the highest percentage of patients who received surgery on time (both 99%)
 - Ear, nose and throat surgery and orthopaedic surgery (93% and 95% respectively) had the lowest.
- Among common procedures:
 - Cystoscopy, hysteroscopy and coronary artery bypass graft (all 99%) had the highest percentage of patients who received surgery on time
 - Myringoplasty/tympanoplasty (83%), myringotomy (92%) and septoplasty (93%) had the lowest.

Table 3 provides a summary of NSW public hospital performance measures for July to September 2015.

Table 3 Summary of NSW public hospital performance measures, July to September 2015

| Emergency department performance | | July to September 2014 | July to September 2015 | Difference | |
|---|--------------------------------------|------------------------|------------------------|---------------------|-----|
| Time to treatment by triage category | T2: Emergency | Median | 8m | 9m | 1m |
| | | 95th percentile | 41m | 45m | 4m |
| | T3: Urgent | Median | 22m | 22m | 0m |
| | | 95th percentile | 1h 53m | 1h 59m | 6m |
| | T4: Semi-urgent | Median | 28m | 29m | 1m |
| | | 95th percentile | 2h 28m | 2h 36m | 8m |
| | T5: Non-urgent | Median | 24m | 25m | 1m |
| | | 95th percentile | 2h 19m | 2h 26m | 7m |
| | Median time to leave the ED | | 2h 49m | 2h 52m | 3m |
| | 95th percentile time to leave the ED | | 1h 38m | 1h 31m | -7m |
| Patients leaving the ED within four hours of presentation | | 71% | 70% | -1 percentage point | |

| Elective surgery performance | | July to September 2014 | July to September 2015 | Difference | |
|---|---------------------|------------------------|------------------------|---------------------|-----------|
| Waiting time (days) | Urgent | Median | 10 days | 11 days | 1 day |
| | | 90th percentile | 25 days | 26 days | 1 day |
| | Semi-urgent | Median | 44 days | 45 days | 1 day |
| | | 90th percentile | 83 days | 83 days | unchanged |
| | Non-urgent | Median | 216 days | 221 days | 5 days |
| | | 90th percentile | 356 days | 356 days | unchanged |
| Elective surgery procedures performed on time | All procedures | 97% | 97% | unchanged | |
| | Urgent surgery | 100% | 100% | unchanged | |
| | Semi-urgent surgery | 97% | 97% | unchanged | |
| | Non-urgent surgery | 96% | 95% | -1 percentage point | |

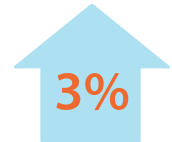
Hospital activity measures

Key findings – July to September 2015

Compared with the same quarter last year...

21,746

more emergency department presentations
648,668 presentations in total



6,022

more people admitted to hospital
474,568 admissions in total



1,992

fewer elective surgery procedures performed
56,503 elective surgery procedures in total



29,185

more bed days of care provided
1,760,446 bed days in total



4,371



3%

fewer patients arrived by ambulance
141,322 arrivals in total

18,287



babies born in total

unchanged

The average length of stay for all acute overnight admissions was

5.1 days

up 0.1 days compared with the same quarter last year



NSW emergency departments

This section provides information about patients who presented to emergency departments, ambulance arrivals, how urgently patients required care (triage category) and how they left the emergency department (mode of separation).

| | |
|---|----|
| NSW emergency department patients and ambulance arrivals | 11 |
| Patients leaving the emergency department by mode of separation | 13 |

NSW hospital admissions

This section provides information about the number and type of hospital admissions (admitted patient episodes), number of babies born, average length of stay and number of bed days provided.

| | |
|-------------------------------------|----|
| Hospital admissions and babies born | 15 |
| Hospital bed days | 17 |
| Average length of stay | 17 |

NSW elective surgery

This section provides information about the number of elective surgery procedures performed, how urgently patients required surgery and the number of patients on the elective surgery waiting list.

| | |
|--|----|
| Elective surgery performed by urgency category | 19 |
| Elective surgery waiting list | 21 |

How many people presented at NSW emergency departments?

During the July to September 2015 quarter, a total of 648,668 people presented to NSW public hospital emergency departments (EDs), an increase of 3% compared with the same quarter last year. Almost all were emergency presentations (624,976 patients or 96%) (Figure 1). The remaining 4% (23,692 patients) presented to ED for non-emergency reasons such as a planned return visit, or a planned hospital admission.

Most of the increase in ED presentations this quarter was due to a 7% increase in the number of patients in triage category two (5,251 more patients) and a 6% increase in the number in triage category three (12,887 more patients). There was a 3% increase in the number of patients in triage category one (118 more patients), a 2% increase in triage category four (4,522 more patients), and a decrease of 2% in triage category five (1,270 less patients) (Figure 1).

There has been a sizeable increase over time in the number of emergency presentations, from 498,671 in July to September 2010 to 624,976 this

quarter, representing a 25% increase over the past five years (Figure 2).

The number of ED presentations increased this quarter in the majority of NSW hospitals (60 out of 81) (Figure 3). Twenty-eight hospitals had an increase of more than 5%, including eight that increased by more than 10%. Seven hospitals had a decrease of more than 5% in the number of ED presentations this quarter, including three that decreased by more than 10%. Hospitals identified in Figure 3 are those that had more than 5,000 ED presentations this quarter (at least 55 patients each day), and more than a 5% change in the number of presentations compared with the same quarter last year.

This quarter, 141,322 ED patients arrived by ambulance, a decrease of 3% compared with the same quarter last year (Figure 1).

Emergency presentations are ED presentations for emergencies, unplanned return visits or disaster.

Figure 1 Emergency department presentations and ambulance arrivals at NSW emergency departments, July to September 2015






| | This quarter | Same quarter last year | Change since one year ago |
|--|--------------|------------------------|---------------------------|
| All presentations | 648,668 | 626,922 | 3% |
| Emergency presentations by triage category | 624,976 | 603,468 | 4% |
| Triage 1: Resuscitation  1% | 4,435 | 4,317 | 3% |
| Triage 2: Emergency  12% | 76,141 | 70,890 | 7% |
| Triage 3: Urgent  34% | 214,174 | 201,287 | 6% |
| Triage 4: Semi-urgent  43% | 267,790 | 263,268 | 2% |
| Triage 5: Non-urgent  10% | 62,436 | 63,706 | -2% |
| Ambulance arrivals | 141,322 | 145,693 | -3% |

Figure 2 Emergency presentations and ambulance arrivals at NSW emergency departments, July 2010 to September 2015

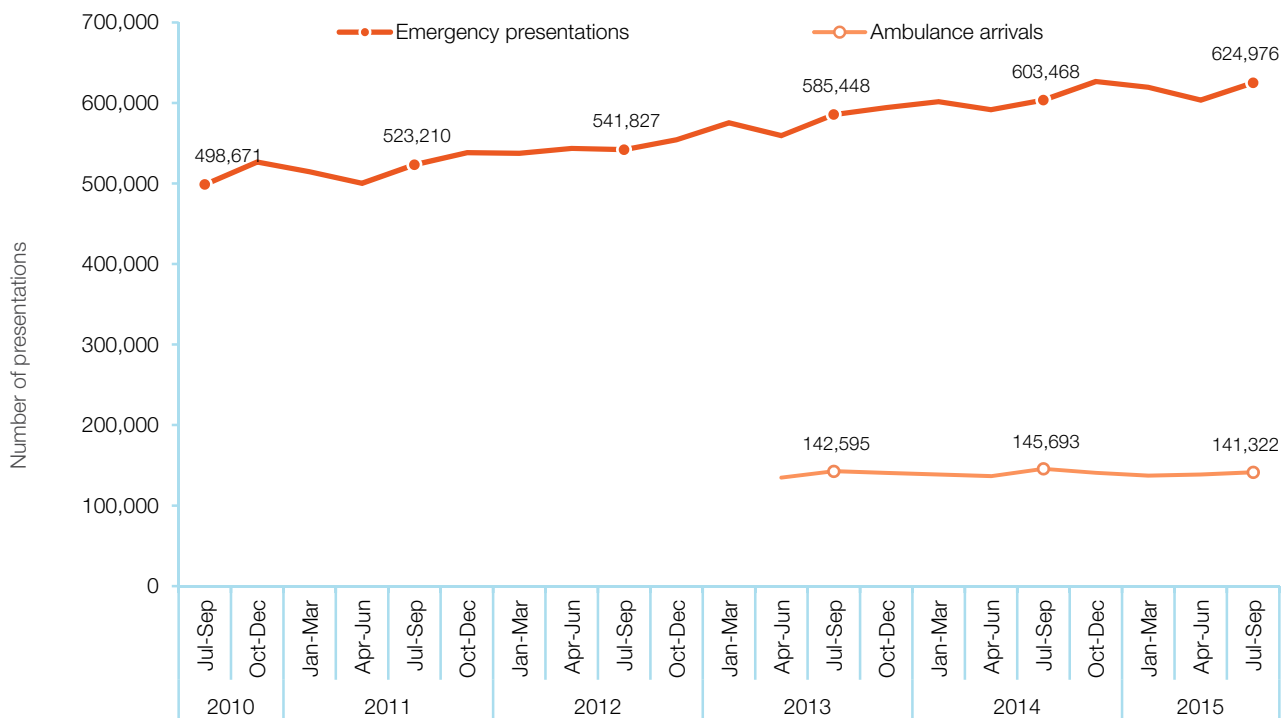
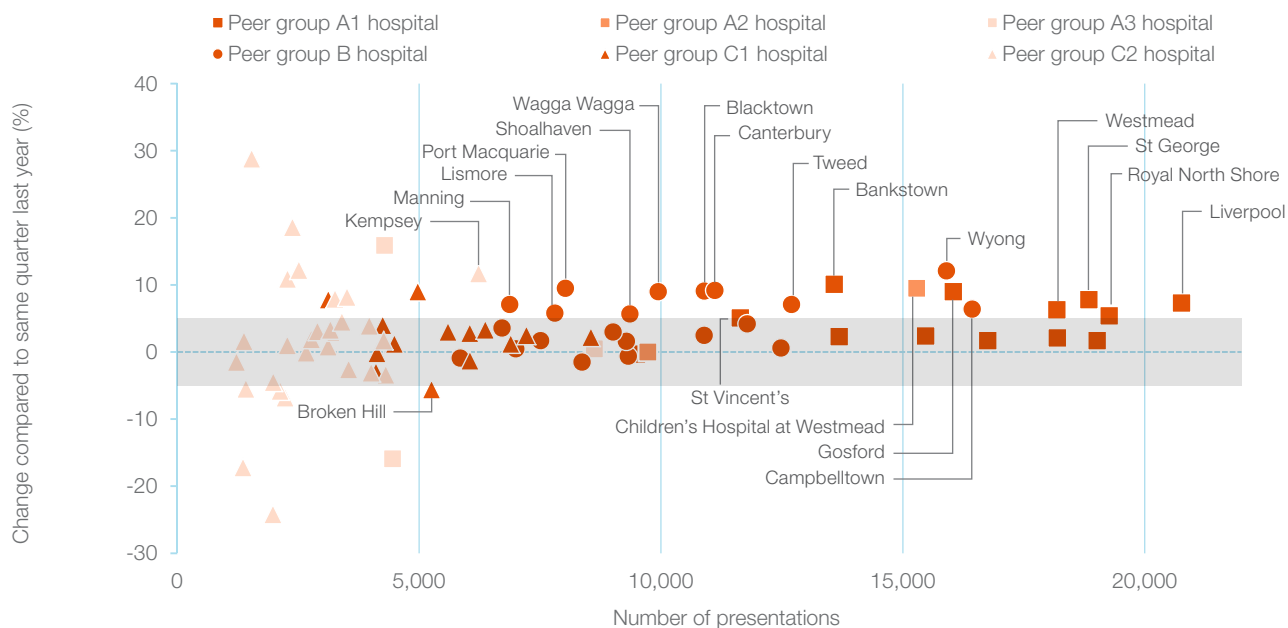


Figure 3 Change in emergency department presentations compared with the same quarter last year, hospitals by peer group, July to September 2015



Where did patients go after leaving the emergency department?

There are different ways in which a patient can leave the ED (referred to as mode of separation). The majority of patients either leave after their treatment is complete or they are admitted to hospital. Some patients choose not to wait for treatment and leave, and others are transferred to a different hospital.

During the July to September 2015 quarter, 62% of patients (404,038) were treated and discharged from the ED, and 28% (181,401 patients) were treated and admitted to hospital. For both groups, there was a 3% increase in the number of patients compared with the same quarter last year.

The number of patients transferred to another hospital increased by 4% this quarter (13,414) and the number who left without, or before completing, treatment (38,773 patients) increased by 10%, compared with the same quarter last year (Figure 4).

ED patients in triage categories one and two were more likely to be treated and admitted to hospital this quarter (Figure 5), whereas those in triage categories three, four and five were more likely to be treated and discharged (Figure 6).

There has been an increase in the number of patients who were treated and discharged, treated and admitted to hospital, and transferred to another hospital since the same quarter in 2010. During this time, there has been a decrease in the number of patients who left without, or before completing, treatment (Figure 7).

Figure 4 Patients leaving the emergency department, by mode of separation, July to September 2015






| | | This quarter | Same quarter last year | Change since one year ago |
|---|---|--------------|------------------------|---------------------------|
| Treated and discharged |  62% | 404,038 | 391,113 | 3% |
| Treated and admitted to hospital |  28% | 181,401 | 176,381 | 3% |
| Patient left without, or before completing, treatment |  6% | 38,773 | 35,126 | 10% |
| Transferred to another hospital |  2% | 13,414 | 12,917 | 4% |
| Other |  2% | 11,042 | 11,385 | -3% |

Figure 5 Percentage of patients treated and admitted, by triage category, July to September 2015







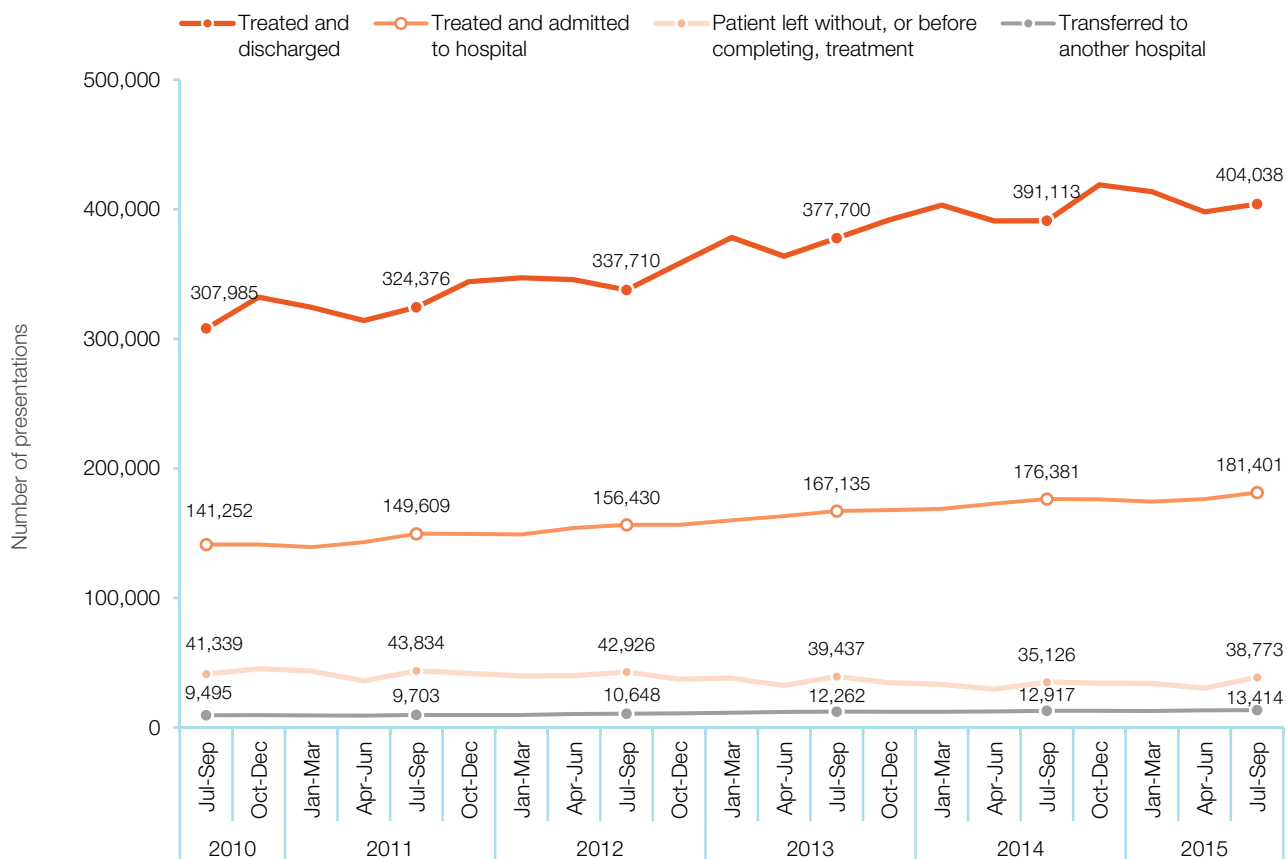
| | | Same quarter last year | Percentage point change since one year ago |
|----------------------|---|------------------------|--|
| All ED presentations |  28% | 28% | unchanged |
| Triage 1 |  83% | 83% | unchanged |
| Triage 2 |  59% | 60% | -1 |
| Triage 3 |  40% | 40% | unchanged |
| Triage 4 |  16% | 16% | unchanged |
| Triage 5 |  5% | 5% | unchanged |

Figure 6 Percentage of patients treated and discharged, by triage category, July to September 2015

| | | Same quarter last year | Percentage point change since one year ago |
|----------------------|-----|------------------------|--|
| All ED presentations | 62% | 62% | unchanged |
| Triage 1 | 7% | 7% | unchanged |
| Triage 2 | 34% | 33% | 1 |
| Triage 3 | 53% | 52% | 1 |
| Triage 4 | 74% | 74% | unchanged |
| Triage 5 | 81% | 81% | unchanged |

Figure 7 Patients leaving the emergency department, by mode of separation, July 2010 to September 2015



How many patients were admitted to public hospitals?

During the July to September 2015 quarter, there were 474,568 admitted patient episodes; 1% more than in the same quarter last year (Figure 8). The majority were acute admitted patient episodes (96%) and of this, 55% were for overnight care and 45% were for same-day care (Figure 9).

Hospital admissions can be planned (arranged in advance) or unplanned (for example, emergency hospital admissions or unplanned surgical procedures). This quarter, the majority of acute same-day admitted patient episodes (75%) were planned. Similarly, the majority of overnight episodes (85%) were unplanned.

There has been a gradual increase over the past five years in all admitted patient episodes and all acute admitted patient episodes (Figure 8). During this time, the number of acute overnight admitted patient episodes has increased by 10% and the number of same-day episodes increased by 18% (Figure 9).

Figure 10 shows differences in the percentage of all same-day acute care admissions this quarter across hospital peer groups. Peer group C2 hospitals had a higher percentage of same-day admissions than other peer groups and also had the widest range – 20% to 85% of all acute admissions being for same-day care.

The number of babies born in NSW public hospitals (18,287) was unchanged compared with the same quarter last year (Figure 8).

Patients can have more than one admitted episode during the same hospital admission. For example, a person may be admitted for acute care and then require an episode of rehabilitation or palliative care prior to being discharged.

Figure 8 All admitted patient episodes, acute admitted patient episodes and babies born, July 2010 to September 2015

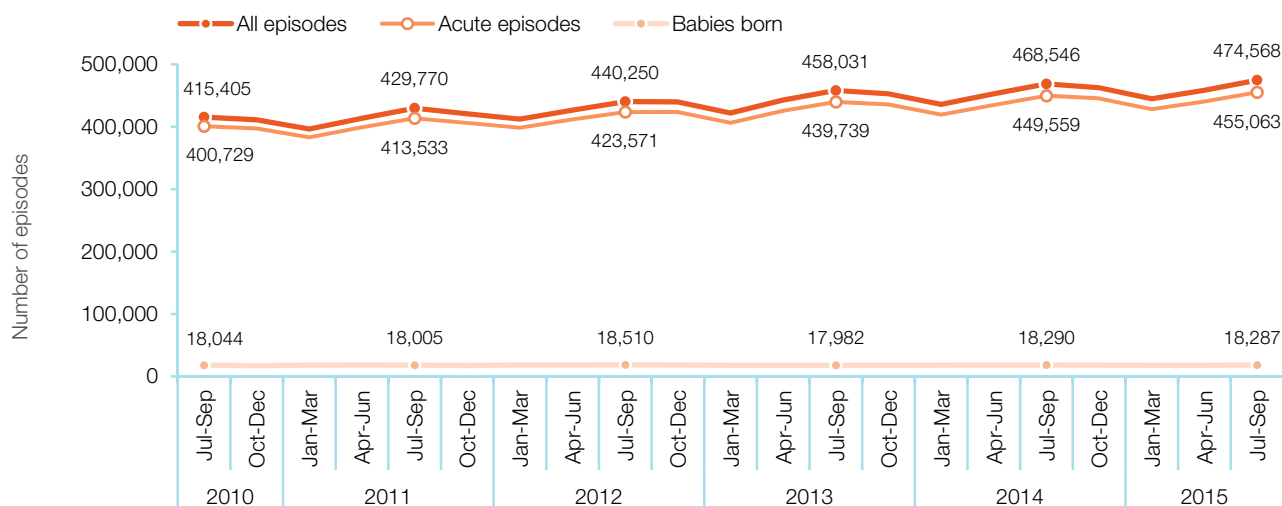


Figure 9 Overnight and same-day acute admitted patient episodes, July 2010 to September 2015

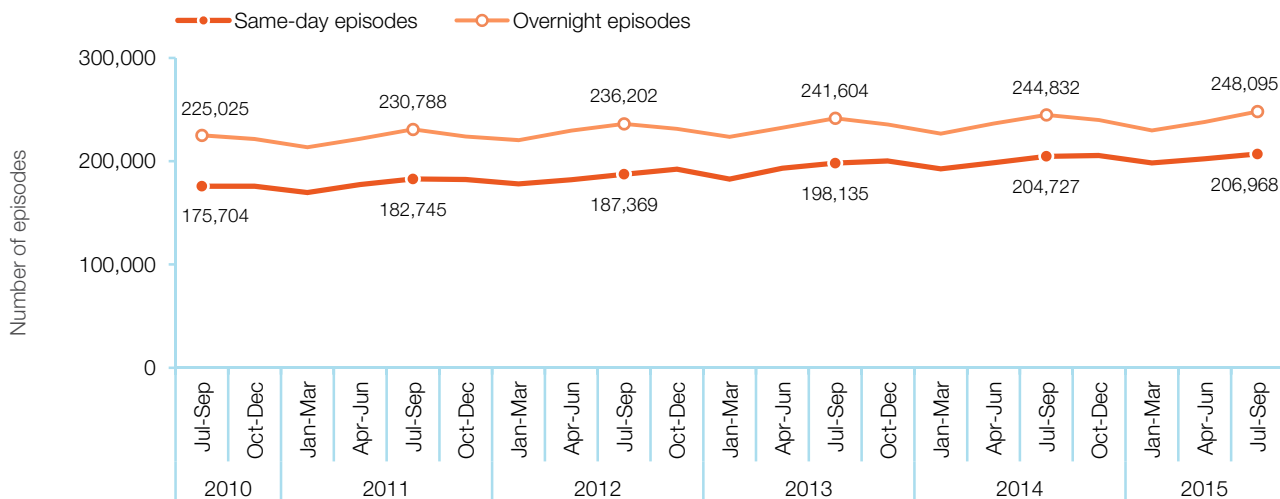
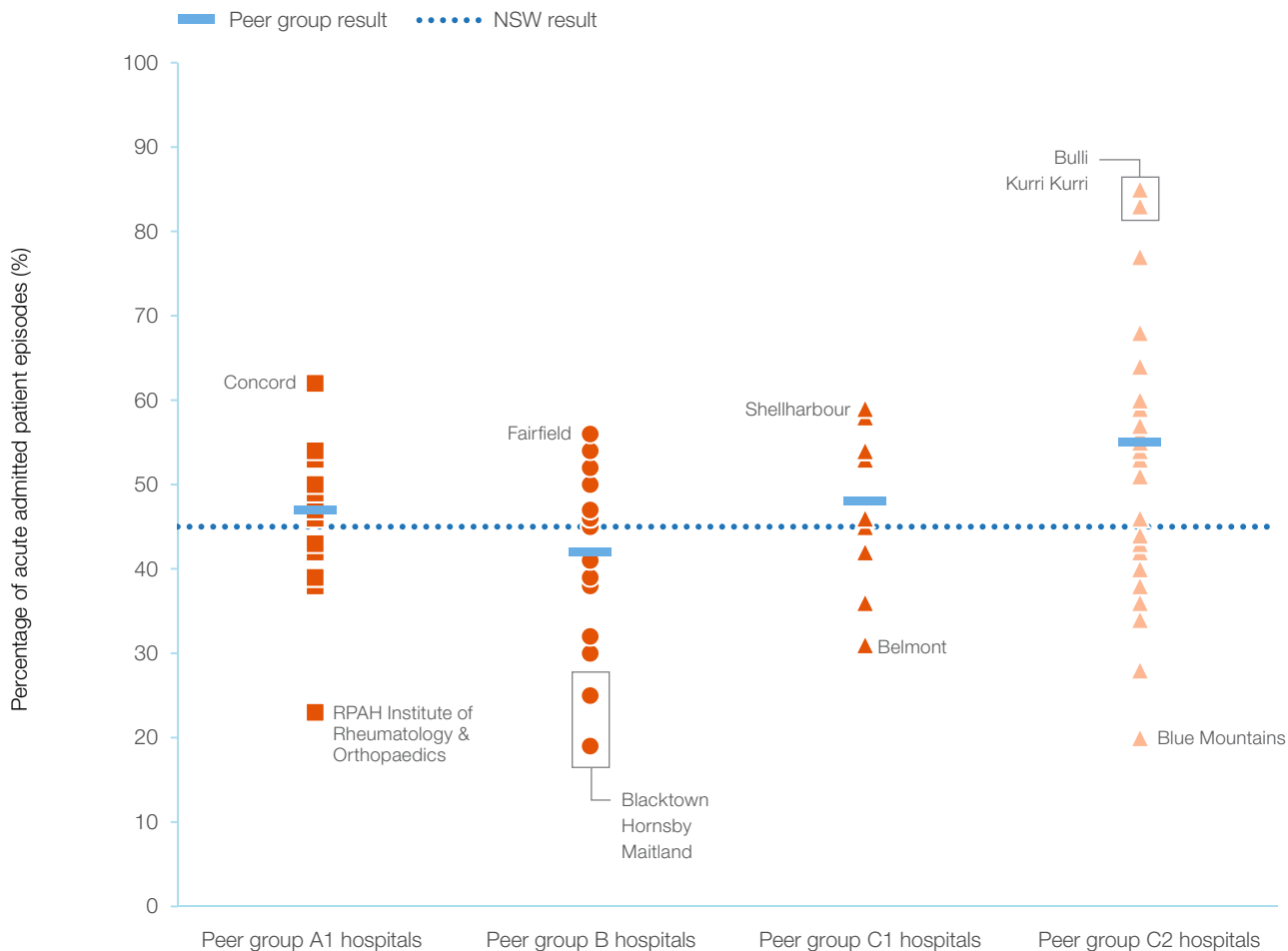


Figure 10 Same-day admitted patient episodes as percentage of all acute admitted patient episodes, by peer group, July to September 2015



How long did patients stay in hospital?

Bed days are an important measure of hospital utilisation and service provision. During the July to September 2015 quarter, 1,760,446 hospital bed days were recorded across all admitted patient episodes. This is 2% higher than in the same quarter last year. The majority of bed days (83%) were for acute care, which increased 2% this quarter. The number of non-acute bed days was 1% higher compared with the same quarter last year (Figure 11).

There has been a 5% increase in the number of bed days for acute care between July 2010 and September 2015. During this time, the number of bed days for non-acute care increased by 23% (Figure 12).

The average length of stay for all hospital admissions was 3.7 days this quarter, unchanged compared with the same quarter last year. The average length of stay for acute overnight admissions was 5.1 days, an increase of 0.1 days compared with the same quarter last year. Figure 13 shows that the average length of stay for all admissions and all acute admissions has remained unchanged in the same quarter over the past three years.

There were hospital-level differences in the average length of stay for acute overnight admissions this quarter, even within peer groups. The greatest variation was in the C2 peer group, where there was a 10.4 day difference between the highest and lowest average length of stay for individual hospitals, compared with a 2.6 day difference in the B peer group (Figure 14).

Figure 11 Total number of hospital bed days by episode type, July to September 2015

| | This quarter | Same quarter last year | Change since one year ago |
|----------------|--------------|------------------------|---------------------------|
| Total bed days | 1,760,446 | 1,731,261 | 2% |
| Acute | 1,461,001 | 1,435,945 | 2% |
| Non-acute | 299,445 | 295,316 | 1% |

Figure 12 Total number of hospital bed days by episode type, July 2010 to September 2015

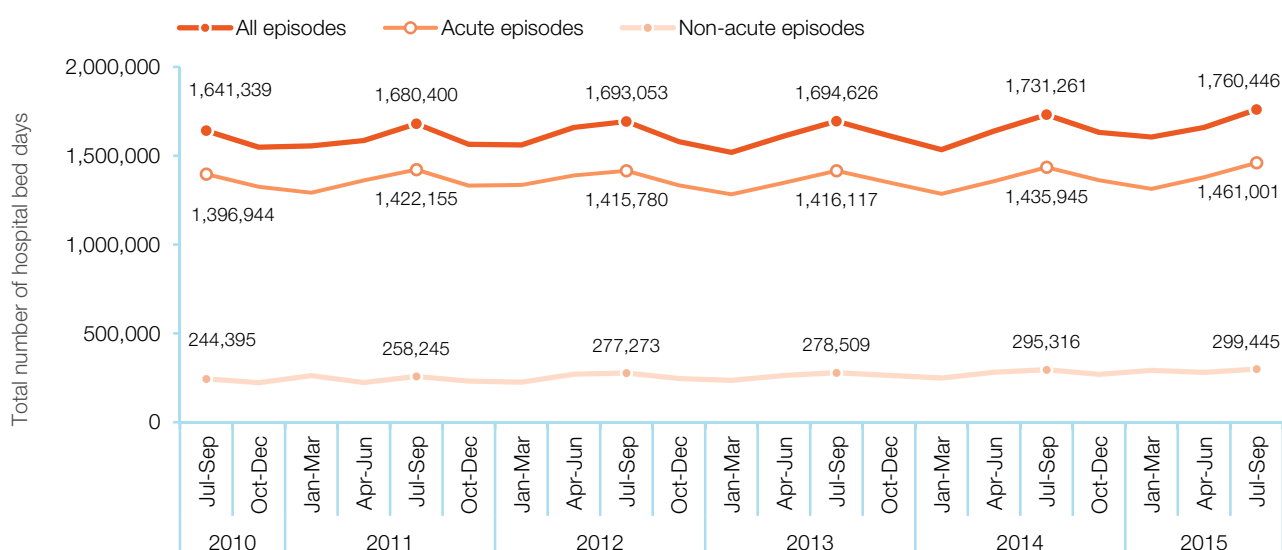


Figure 13 Average length of stay for all acute, and acute overnight admitted patient episodes, July 2010 to September 2015

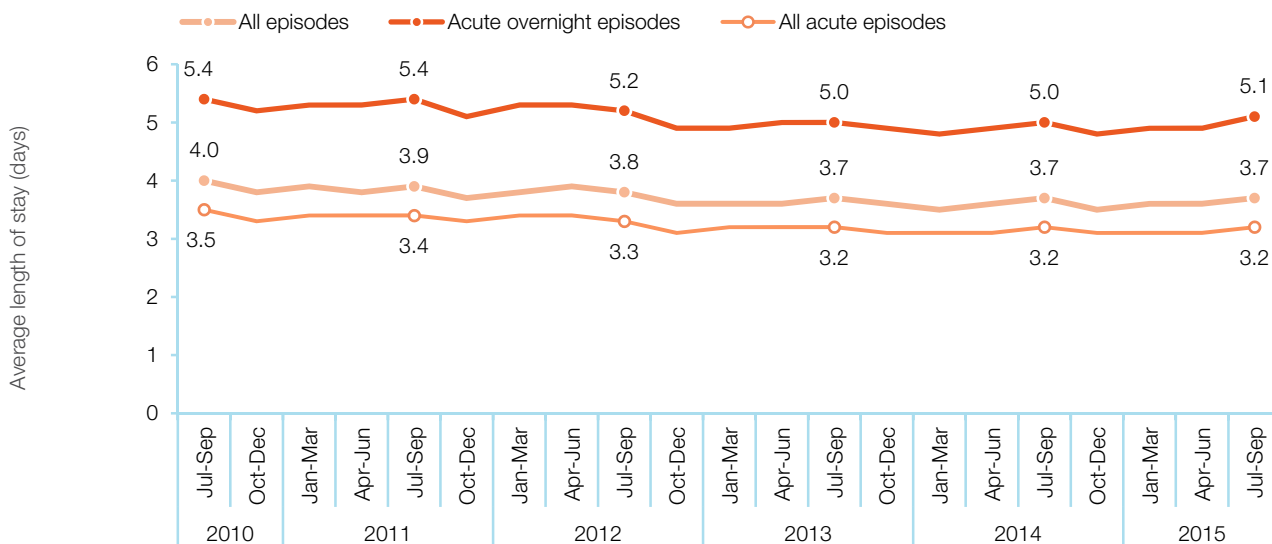
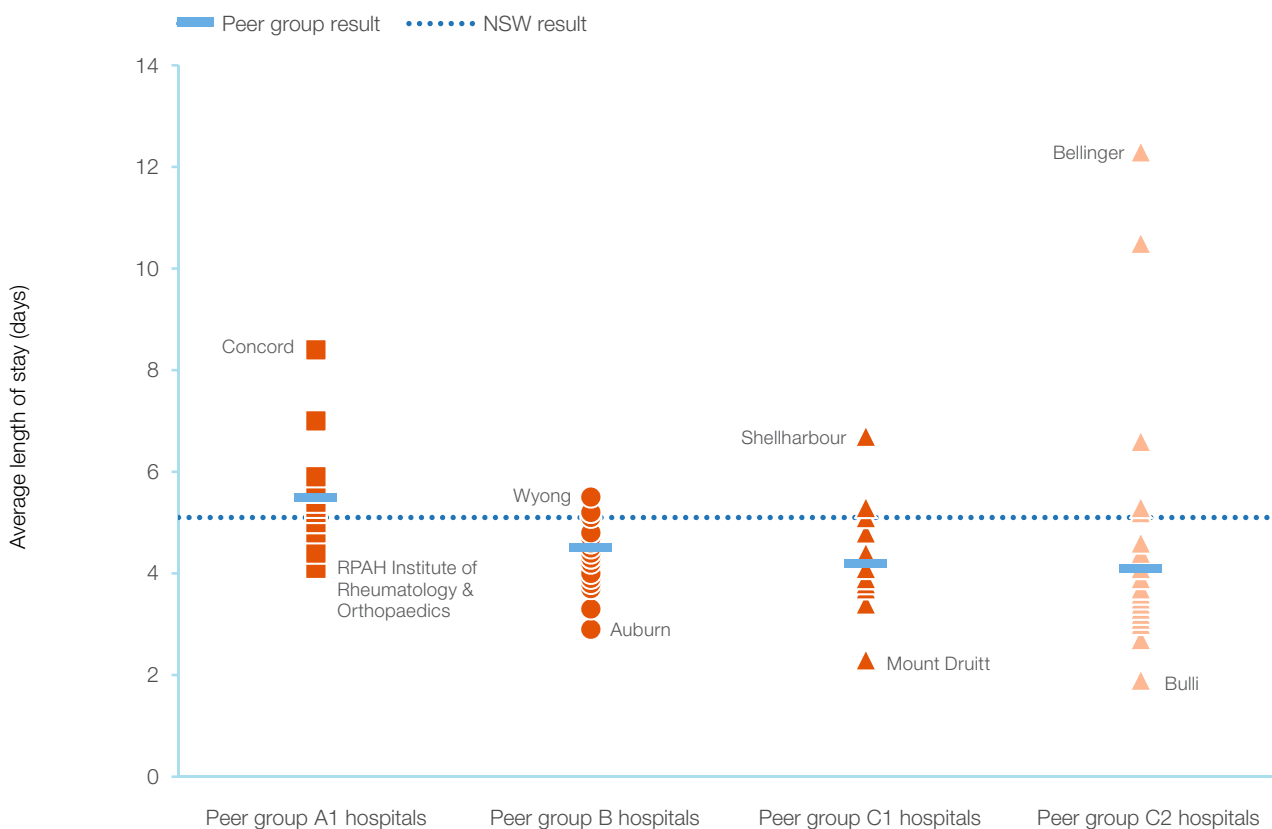


Figure 14 Average length of stay for acute overnight admitted patient episodes, by peer group, July to September 2015



How many elective surgery procedures were performed?

During the July to September 2015 quarter, a total of 56,503 elective surgery procedures were performed, 1,992 (3%) fewer than in the same quarter last year. Of all the elective surgery procedures performed this quarter, 22% were categorised as urgent, 33% as semi-urgent, and 41% as non-urgent. A further 5% were categorised as staged (Figure 15).

Staged surgery is surgery that, for medical reasons, cannot take place before a certain amount of time has elapsed. For measures of surgical activity, BHI includes all non-urgent cystoscopy procedures in

the staged category. This quarter, 3% fewer urgent procedures, and 2% fewer semi-urgent and non-urgent procedures were performed compared with the same quarter last year. The number of staged procedures performed decreased by 27% compared with the same quarter last year (Figure 15).

There are three elective surgery urgency categories, each with a clinically recommended maximum time by which the procedure should be performed: urgent (within 30 days), semi-urgent (within 90 days) and non-urgent surgery (within 365 days).

Figure 15 Elective surgery procedures performed, by urgency category, July to September 2015





| | This quarter | Same quarter last year | Change since one year ago |
|---|--------------|------------------------|---------------------------|
| Total number of elective surgery procedures | 56,503 | 58,495 | -3% |
| Urgent  22% | 12,421 | 12,764 | -3% |
| Semi-urgent  33% | 18,384 | 18,696 | -2% |
| Non-urgent  41% | 23,094 | 23,465 | -2% |
| Staged  5% | 2,604 | 3,570 | -27% |

Figure 16 Distribution of urgency categories within all elective surgery procedures, by peer group, July to September 2015

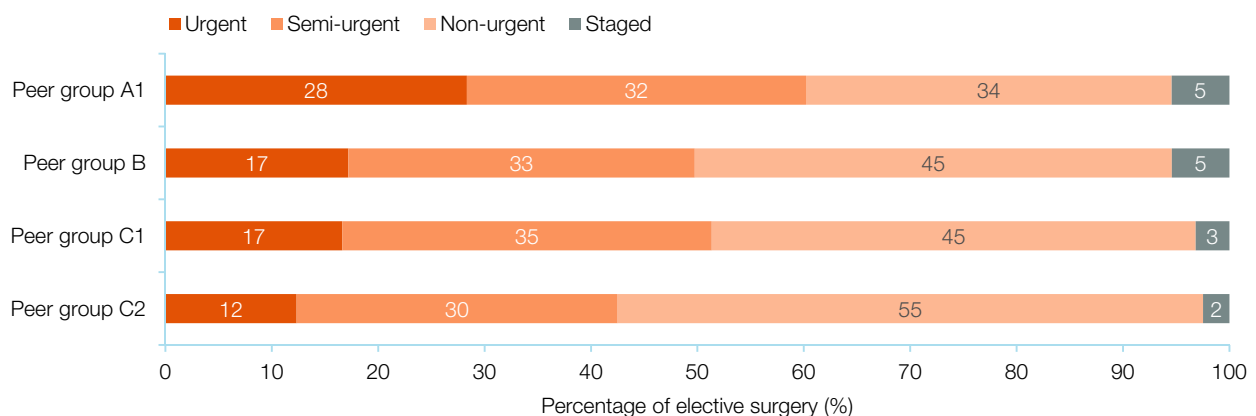
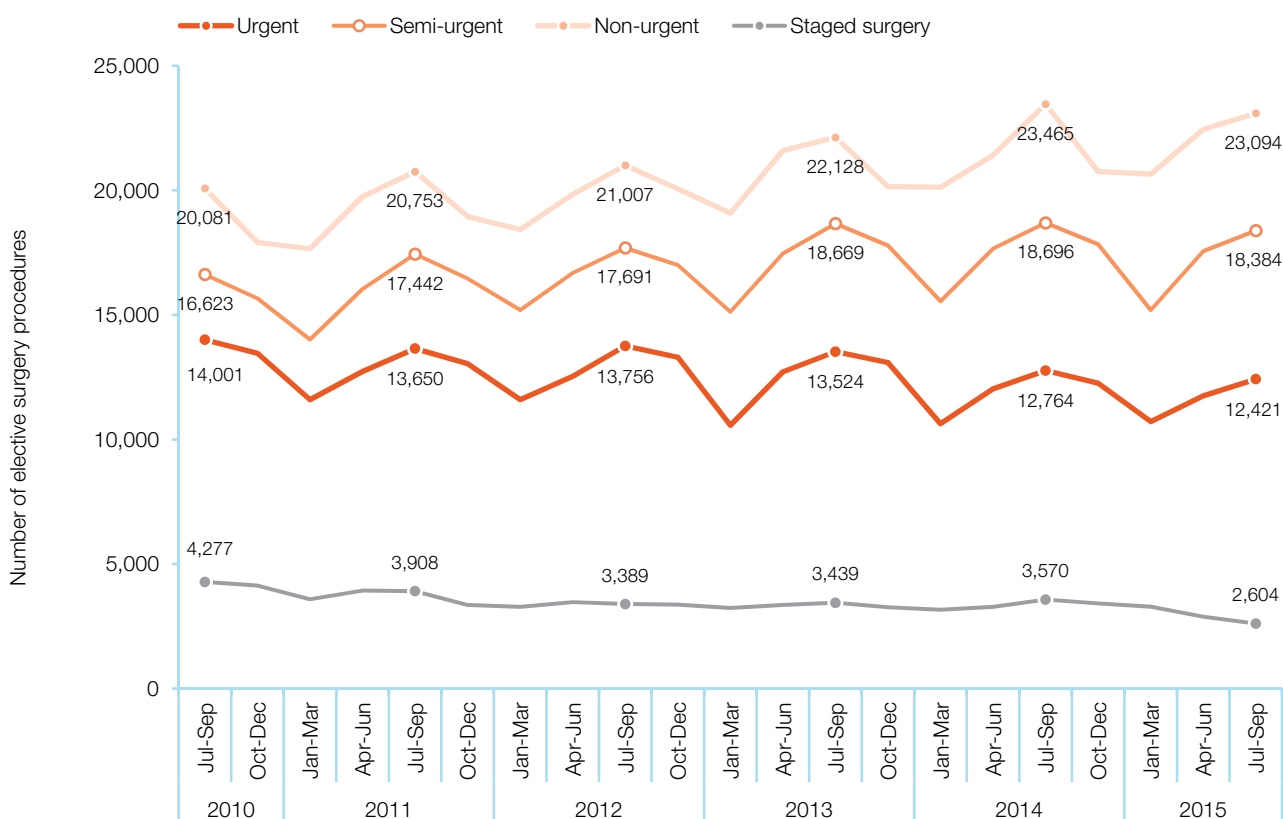


Figure 16 shows variation in the distribution, by urgency category, of all elective surgery procedures performed across different hospital peer groups. Peer group A1 hospitals had the highest percentage of elective surgery procedures that were urgent and the lowest percentage that were non-urgent, compared with other hospital peer groups.

There has been an overall increase in the volume of elective surgery procedures performed over the past five years. The number categorised as semi-urgent and non-urgent increased by 11% and 15% respectively. The number categorised as urgent decreased by 11% and the number categorised as staged decreased by 39% during this time (Figure 17).

Figure 17 Elective surgery procedures performed, by urgency category, July 2010 to September 2015



How many patients were on the elective surgery waiting list at the end of the quarter?

At the end of September 2015, 73,397 patients were ready for surgery and on the elective surgery waiting list. Of these, 2% were waiting for urgent surgery, 17% were waiting for semi-urgent surgery and 81% were waiting for non-urgent surgery. Compared with the same quarter last year, the number of patients waiting for urgent, semi-urgent and non-urgent elective surgery have all increased by 1% (Figure 18).

At the end of the quarter, 13,490 patients were not ready for surgery and on the elective surgery waiting list, up 2% compared with the same quarter last year (Figure 18).

Comparing across surgical specialties

Orthopaedic surgery and ophthalmological surgery were the specialties with the most patients waiting at the end of the quarter. Together, these specialties made up 48% of all patients waiting for elective surgery in NSW public hospitals. Cardiothoracic surgery and medical (non-specialist) surgery had the least number of patients waiting (Figure 19).

At the end of the quarter, there were 724 patients still waiting for surgery after more than 12 months on the waiting list; a 24% increase compared with the same quarter last year. Ear, nose and throat surgery, orthopaedic surgery and ophthalmological surgery had the most patients still waiting after more than 12 months on the waiting list.

Compared with the same quarter last year, the largest increase in absolute numbers was for ear, nose and throat surgery which increased from 156 to 230 patients (Figure 19).

Comparing across common procedures

Cataract extraction, the highest volume procedure, had the most patients waiting for surgery at the end of the quarter (14,610 patients, up 2% compared with the same quarter last year). Procedures with the least patients waiting were myringotomy (100 patients; down 24%) and coronary artery bypass graft (109 patients; up 31%) (Figure 20).

At the end of the quarter, cataract extraction and tonsillectomy had the most patients still waiting for surgery after more than 12 months on the waiting list. Compared with the same quarter last year, the largest increase in absolute numbers was for cataract extraction, which doubled the number of patients still waiting from 55 to 110 patients. The largest decrease in absolute numbers was for inguinal herniorrhaphy which decreased the number still waiting from 36 to 22 patients (Figure 20).

Figure 18 Elective surgery waiting list, by urgency category, as at 30 September 2015




| | This quarter | Same quarter last year | Change since one year ago |
|---|--------------|------------------------|---------------------------|
| Patients ready for surgery on waiting list as at 30 September 2015: | 73,397 | 72,387 | 1% |
| Urgent  2% | 1,689 | 1,680 | 1% |
| Semi-urgent  17% | 12,253 | 12,097 | 1% |
| Non-urgent  81% | 59,455 | 58,610 | 1% |
| Patients not ready for surgery on waiting list at the end of quarter: | 13,490 | 13,233 | 2% |

Figure 19

Patients waiting for elective surgery and patients still on waiting list at the end of the quarter, after more than 12 months, by speciality, as at 30 September 2015

| | Patients on waiting list at end of quarter | | | Patients still waiting after more than 12 months | |
|------------------------------|--|------------------------|---------------------------|--|------------------------|
| | This quarter | Same quarter last year | Change since one year ago | This quarter | Same quarter last year |
| All specialties | 73,397 | 72,387 | 1% | 724 | 584 |
| Orthopaedic surgery | 18,541 | 18,516 | unchanged | 184 | 175 |
| Ophthalmology | 16,773 | 16,505 | 2% | 125 | 76 |
| General surgery | 12,516 | 12,896 | -3% | 111 | 121 |
| Ear, nose and throat surgery | 10,257 | 9,596 | 7% | 230 | 156 |
| Gynaecology | 6,052 | 6,074 | unchanged | 13 | 11 |
| Urology | 3,718 | 3,726 | unchanged | 20 | 12 |
| Plastic surgery | 2,529 | 2,394 | 6% | 37 | 20 |
| Neurosurgery | 1,374 | 1,101 | 25% | <5 | 7 |
| Vascular surgery | 977 | 974 | unchanged | <5 | 5 |
| Cardiothoracic surgery | 436 | 348 | 25% | 0 | <5 |
| Medical | 224 | 257 | -13% | 0 | 0 |

Figure 20

Patients waiting for elective surgery and patients still on waiting list at the end of the quarter, after more than 12 months, by common procedure, as at 30 September 2015

| | Patients on waiting list at end of quarter | | | Patients still waiting after more than 12 months | |
|---------------------------------------|--|------------------------|---------------------------|--|------------------------|
| | This quarter | Same quarter last year | Change since one year ago | This quarter | Same quarter last year |
| Cataract extraction | 14,610 | 14,352 | 2% | 110 | 55 |
| Total knee replacement | 5,276 | 5,097 | 4% | 40 | 49 |
| Tonsillectomy | 3,949 | 3,681 | 7% | 49 | 26 |
| Total hip replacement | 2,371 | 2,240 | 6% | 22 | 24 |
| Inguinal herniorrhaphy | 2,169 | 2,165 | unchanged | 22 | 36 |
| Cholecystectomy | 1,719 | 1,709 | 1% | 6 | 12 |
| Hysteroscopy | 1,502 | 1,399 | 7% | 0 | <5 |
| Septoplasty | 1,362 | 1,362 | unchanged | 44 | 39 |
| Other - General | 1,216 | 1,177 | 3% | 17 | 6 |
| Cystoscopy | 1,115 | 1,001 | 11% | 0 | 0 |
| Abdominal hysterectomy | 768 | 764 | 1% | <5 | 0 |
| Varicose veins stripping and ligation | 690 | 710 | -3% | <5 | 5 |
| Prostatectomy | 634 | 613 | 3% | <5 | <5 |
| Haemorrhoidectomy | 456 | 470 | -3% | <5 | <5 |
| Myringoplasty/Tympanoplasty | 332 | 327 | 2% | 13 | 8 |
| Coronary artery bypass graft | 109 | 83 | 31% | 0 | 0 |
| Myringotomy | 100 | 131 | -24% | <5 | 0 |

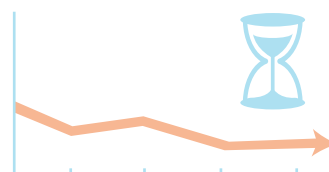
Hospital performance measures

Key findings – July to September 2015

82% of patients arriving by ambulance had their care transferred within 30 minutes up two percentage points compared with the same quarter last year



Median time to ED treatment was largely unchanged across all triage categories



70% of patients spent four hours or less in the emergency department down one percentage point compared with the same quarter last year



 **97%** of patients received their surgery within recommended timeframes

100% urgent surgery procedures performed on time

97% semi-urgent surgery procedures performed on time

95% non-urgent surgery procedures performed on time



25 out of 83 hospitals reported an increase in the percentage of elective surgery performed on time – 22 reported a decrease, compared with the same quarter last year

NSW emergency departments

This section provides information about timeliness measures for NSW emergency departments.

| | |
|--|----|
| Time to treatment | 25 |
| Time spent in the emergency department | 27 |
| Percentage of patients who left the emergency department within four hours | 31 |
| Transfer of care | 37 |

NSW elective surgery

This section provides information about timeliness measures for elective surgery in NSW public hospitals.

| | |
|---|----|
| Waiting times for elective surgery | 39 |
| Percentage of elective surgery procedures performed on time | 43 |

How long did patients wait for treatment in the emergency department?

During the July to September 2015 quarter, the median time from a patient first presenting at the emergency department (ED) to starting treatment was one minute longer across triage categories two, four and five and unchanged for patients in triage category three, compared with the same quarter last year (Figure 21).

The 95th percentile time to starting treatment increased across triage categories two (four minutes longer), three (six minutes longer), four (eight minutes longer) and five (seven minutes longer) (Figure 21).

How have ED treatment waiting times changed over time?

Figures 22 and 23 show a downward trend over the past five years in the median and 95th percentile time to starting treatment in triage categories three, four and five. Time to starting treatment has increased for patients in triage category two during this time.

Figure 21

Time from presentation to starting treatment, by triage category, July to September 2015

| | This quarter | Same quarter last year | Change since one year ago |
|--|--------------|------------------------|---------------------------|
| Triage 2 Emergency (e.g. chest pain, severe burns): 75,129 patients | | | |
| Median time to start treatment | 9m | 8m | 1m |
| 95th percentile time to start treatment | 45m | 41m | 4m |
| Triage 3 Urgent (e.g. moderate blood loss, dehydration): 207,658 patients | | | |
| Median time to start treatment | 22m | 22m | unchanged |
| 95th percentile time to start treatment | 1h 59m | 1h 53m | 6m |
| Triage 4 Semi-urgent (e.g. sprained ankle, earache): 246,071 patients | | | |
| Median time to start treatment | 29m | 28m | 1m |
| 95th percentile time to start treatment | 2h 36m | 2h 28m | 8m |
| Triage 5 Non-urgent (e.g. small cuts or abrasions): 53,035 patients | | | |
| Median time to start treatment | 25m | 24m | 1m |
| 95th percentile time to start treatment | 2h 26m | 2h 19m | 7m |

Figure 22 Median time from presentation to starting treatment, by triage category, July 2010 to September 2015

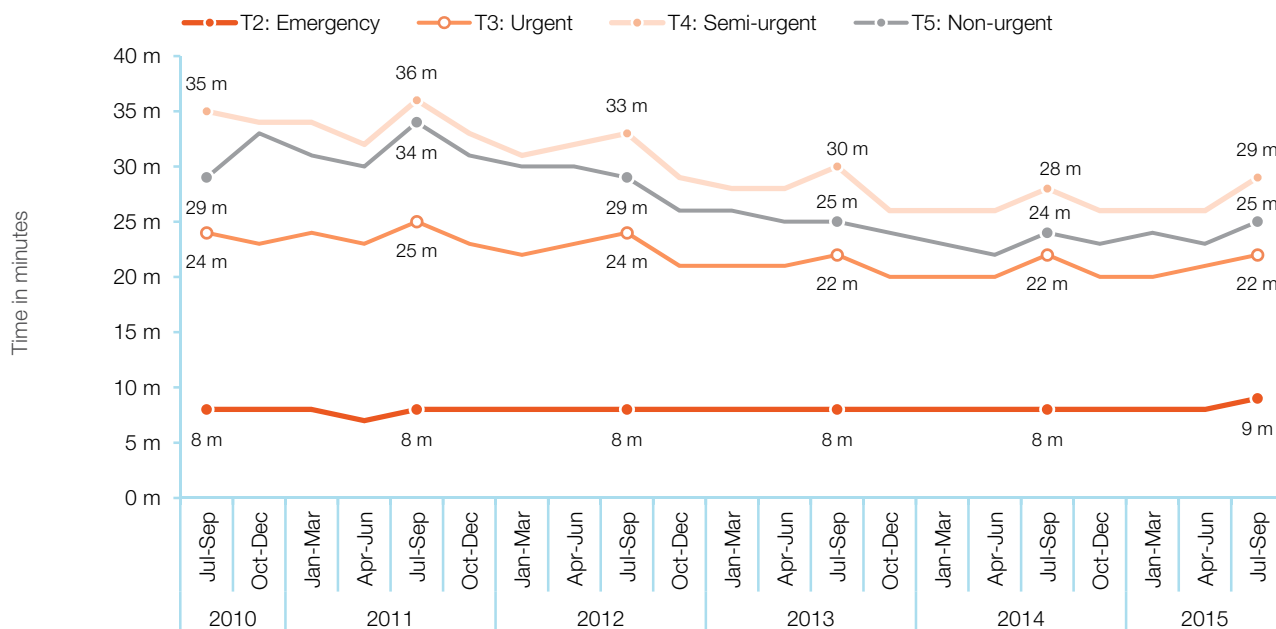
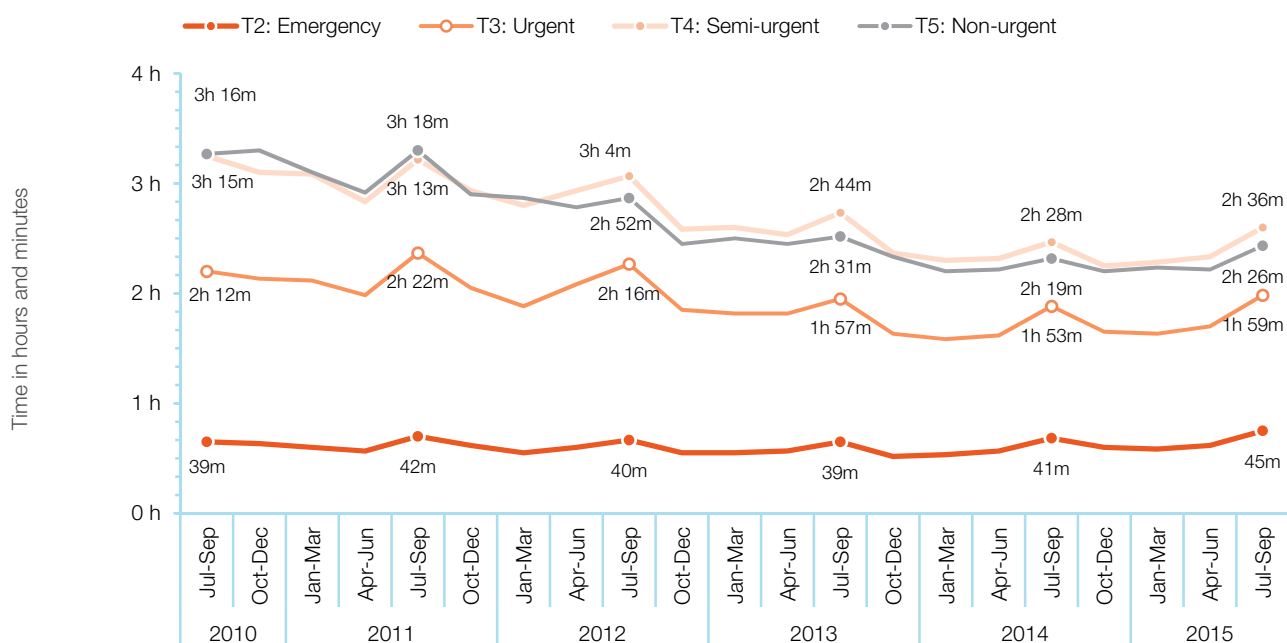


Figure 23 95th percentile time from presentation to starting treatment, by triage category, July 2010 to September 2015



How long were patients in the emergency department?

Time to leaving the ED

During the July to September 2015 quarter, the median time from presentation to leaving the ED was two hours and 52 minutes, three minutes longer than the same quarter last year. The 95th percentile time to leaving was 11 hours and 31 minutes, seven minutes shorter than the same quarter last year (Figure 24).

Does time to leaving the ED vary between hospital peer groups?

Figure 25 shows the median time from presentation to leaving the ED over the past five years for peer group A1, B, C1 and C2 hospitals. The shaded areas illustrate the range of values between the highest and lowest median times for hospitals in each peer group.

Overall, peer group A1, B and C1 hospitals have seen a decrease in the median time to leaving the ED over the past five years. For peer group C2 hospitals, however, the median time to leaving has increased, and was 14 minutes longer this quarter than in the same quarter in 2010 (Figure 25).

There is now little variation in the median time to leaving the ED between hospitals in peer group A1, as evidenced by a narrowing of the difference between the highest and lowest median times for individual hospitals. More variation is seen in the median time to leaving the ED for peer group B, C1 and C2 hospitals (Figure 25).

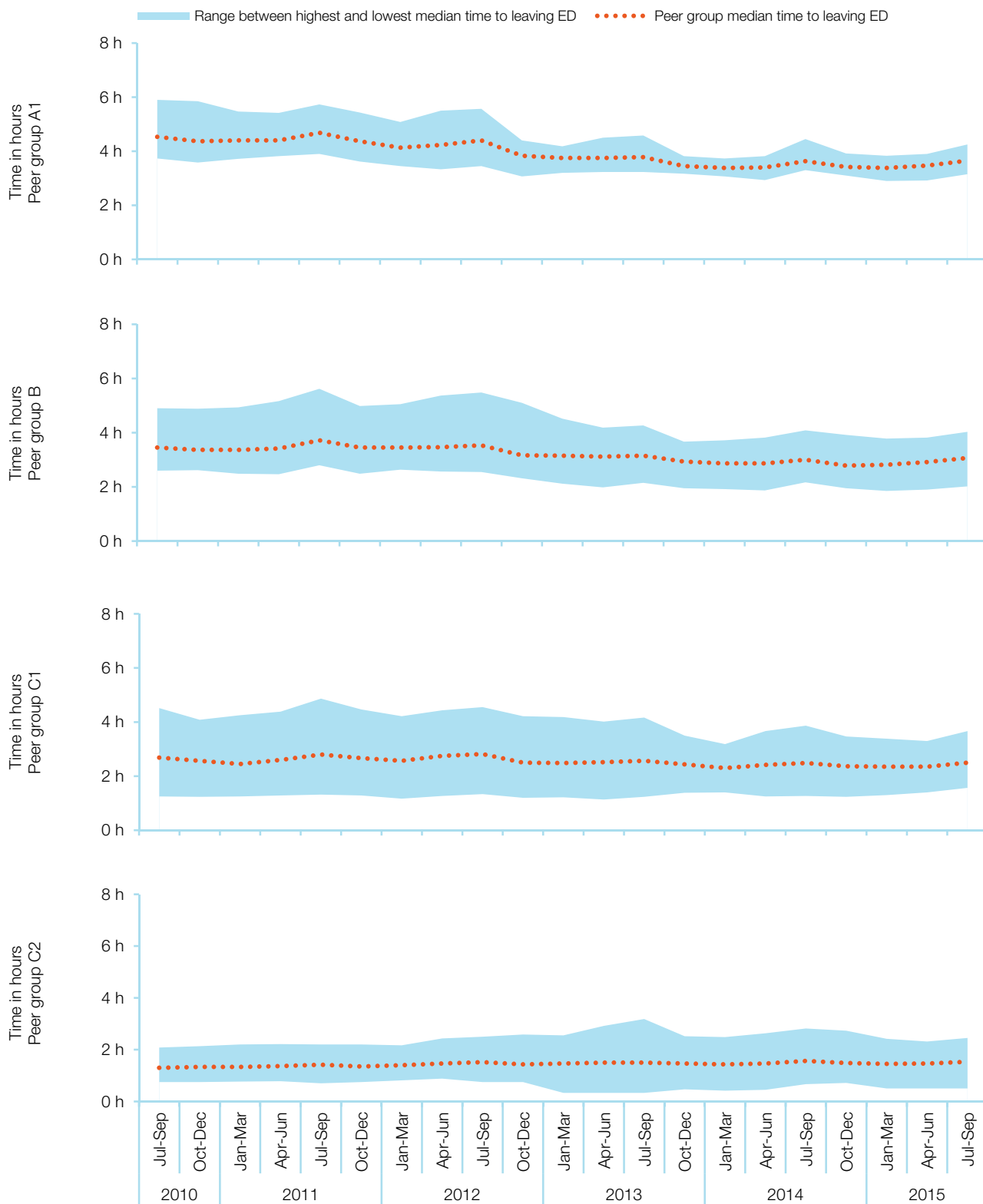
Patients generally spend less time in the ED in peer group C1 and C2 hospitals (Figure 25). Correspondingly, these hospitals generally have a higher percentage of patients who leave within four hours of presentation, compared with other peer groups (Figure 31).

The cohort of EDs included in this report has changed over the past five years, and this has affected overall volumes and performance measures. Results for peer group C2 hospitals are most affected by these changes. The number of EDs in peer group C2 hospitals that contribute data to *Hospital Quarterly* has more than doubled since 2010. For more information refer to the technical supplements section of the BHI website at bhi.nsw.gov.au

Figure 24 Time from presentation to leaving the emergency department, July to September 2015

| | This quarter | Same quarter last year | Change since one year ago |
|--|--------------|------------------------|---------------------------|
| Median time to leaving the ED | 2h 52m | 2h 49m | 3m |
| 95th percentile time to leaving the ED | 11h 31m | 11h 38m | -7m |

Figure 25 Median time to leaving the emergency department and range, peer group hospitals, July 2010 to September 2015



How long were patients in the emergency department?

Time to leaving the emergency department by mode of separation

With the exception of patients who were transferred to another hospital, the median time to leaving the ED increased this quarter across all modes of separation, compared with the same quarter last year. For patients whose ED visit ended in admission to hospital, the median time to leaving the ED was seven minutes longer (Figure 26).

The 95th percentile time to leaving the ED was 11 minutes shorter this quarter for patients treated and admitted to hospital, and one minute longer for those treated and discharged, compared with the same quarter last year. For patients transferred to another hospital, the 95th percentile time to leaving ED was 16 minutes shorter (Figure 27).

Has time to leaving the ED changed by mode of separation?

Despite a 27% increase in the volume of presentations since the July to September quarter in 2010, overall, the median time from presentation to leaving the ED has decreased during this time.

Figure 26 shows a downward trend over the past five years in the median time across all modes of separation. The largest decrease was seen for patients who were treated and admitted to hospital, from six hours and 53 minutes in July to September 2010 to five hours and 21 minutes this quarter.

Compared with the same quarter in 2010, the 95th percentile time to leaving the ED has decreased across all modes of separation. Patients transferred to another hospital had the largest decrease, from 24 hours and 31 minutes in July to September 2010 to 22 hours and 24 minutes this quarter (Figure 27).

Figure 26 Median time from presentation to leaving the emergency department, July 2010 to September 2015

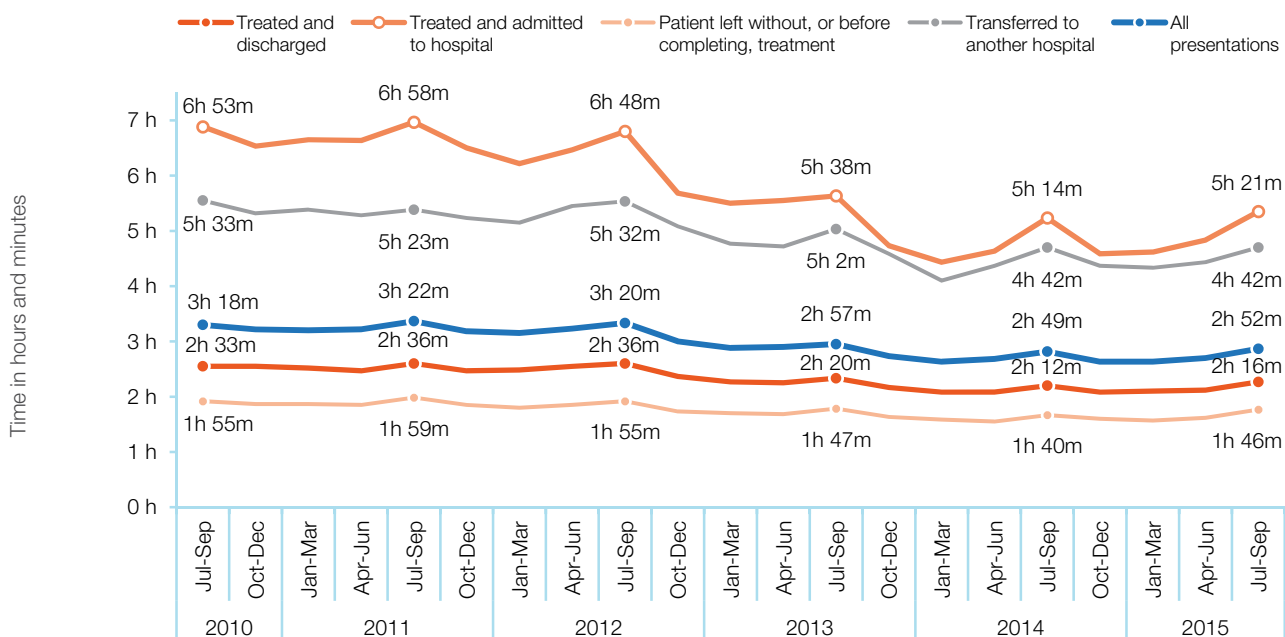
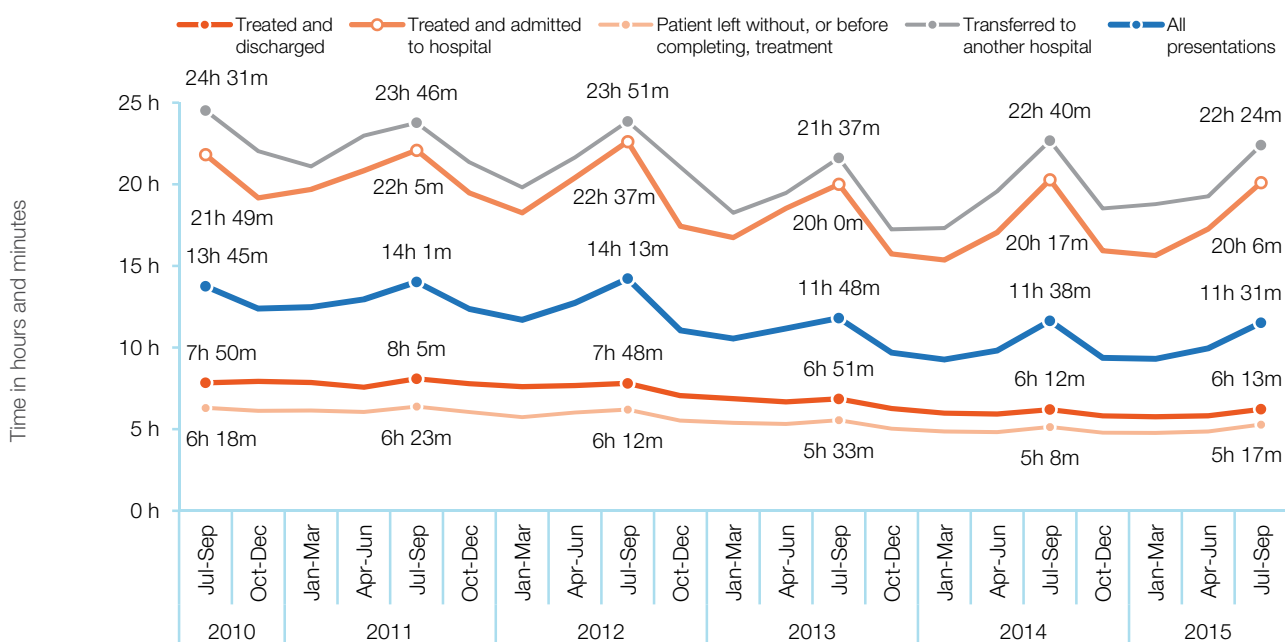


Figure 27 95th percentile time from presentation to leaving the emergency department, July 2010 to September 2015



How long were patients in the emergency department?

Percentage of patients leaving the ED within four hours of presentation

During the July to September 2015 quarter, 70% of patients left NSW EDs within four hours of presentation, a decrease of one percentage point compared with the same quarter last year (Figure 28). The trend of improvement seen from mid-2012 onwards is no longer evident in these results (Figure 29).

The majority of patients who were treated and discharged this quarter left the ED within four hours (84%). Patients who were treated and subsequently admitted to hospital, and those who were transferred to another hospital, had the lowest percentage of patients who left within four hours this quarter (36% and 43% respectively). Of patients who left without, or before, completing treatment, 89% had departed the ED within four hours of presentation (Figure 28).

Currently, patients admitted to hospital are less likely to leave within four hours than patients who are treated and discharged, transferred to another hospital, or who leave without, or before completing, treatment (Figure 28).

While 70% of patients left the ED in the first four hours of presentation this quarter, a further 20% left between four and eight hours, and a further 5% left within the period of eight to 12 hours of presentation (Figure 30).

Due to differences in data definitions, period of reporting and the number of hospitals included, *Hospital Quarterly* results for the percentage of patients who left the ED within four hours are not directly comparable to figures reported by the NSW Ministry of Health or the Commonwealth. For more information refer to the technical supplements section of the BHI website at bhi.nsw.gov.au

Figure 28 Percentage of patients leaving the emergency department within four hours, by mode of separation, July to September 2015

| | This quarter | Same quarter last year | Percentage point change since one year ago |
|---|--------------|------------------------|--|
| All ED presentations | 70% | 71% | -1 |
| Treated and discharged | 84% | 84% | unchanged |
| Treated and admitted | 36% | 38% | -2 |
| Left without, or before completing, treatment | 89% | 90% | -1 |
| Transferred to another hospital | 43% | 43% | unchanged |

Figure 29 Percentage of patients who left the emergency department within four hours, by mode of separation, July 2010 to September 2015

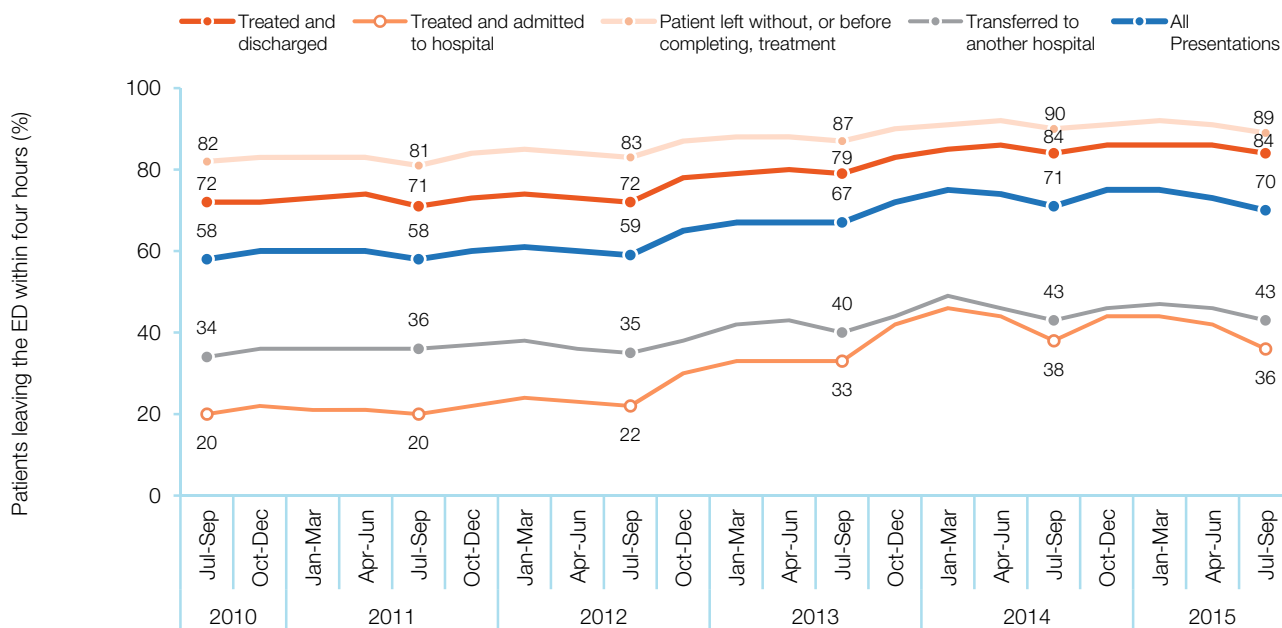
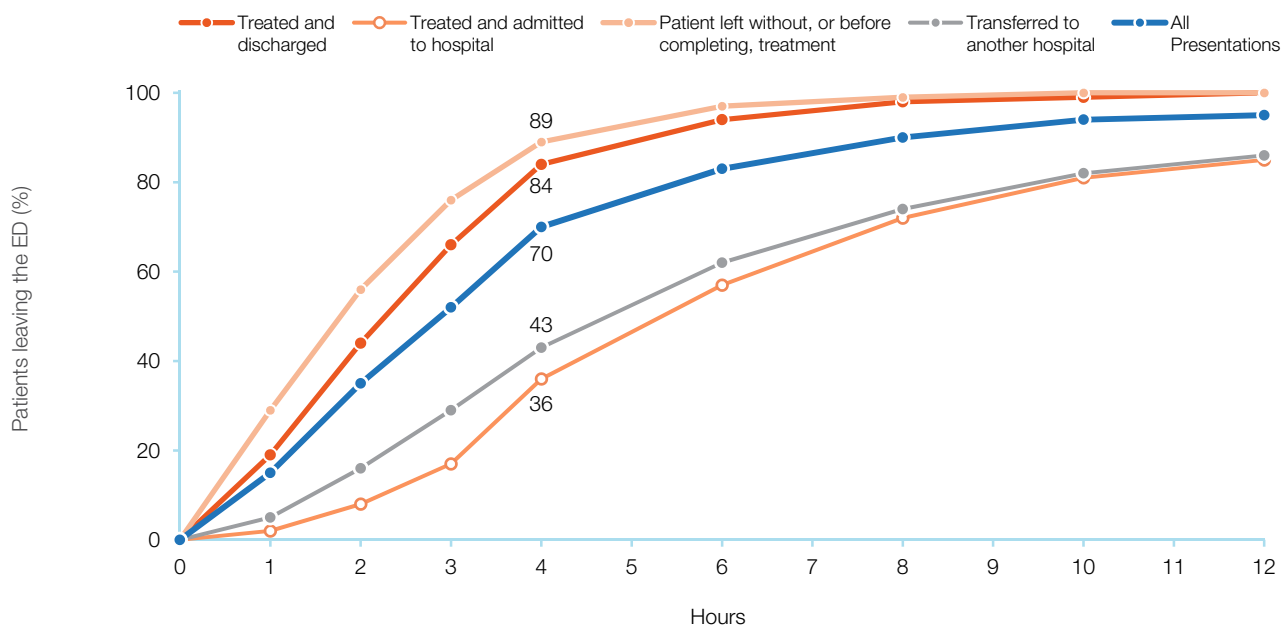


Figure 30 Percentage of patients leaving the emergency department, by time and mode of separation, July to September 2015



How long were patients in the emergency department?

Variation in the percentage of patients leaving the ED within four hours

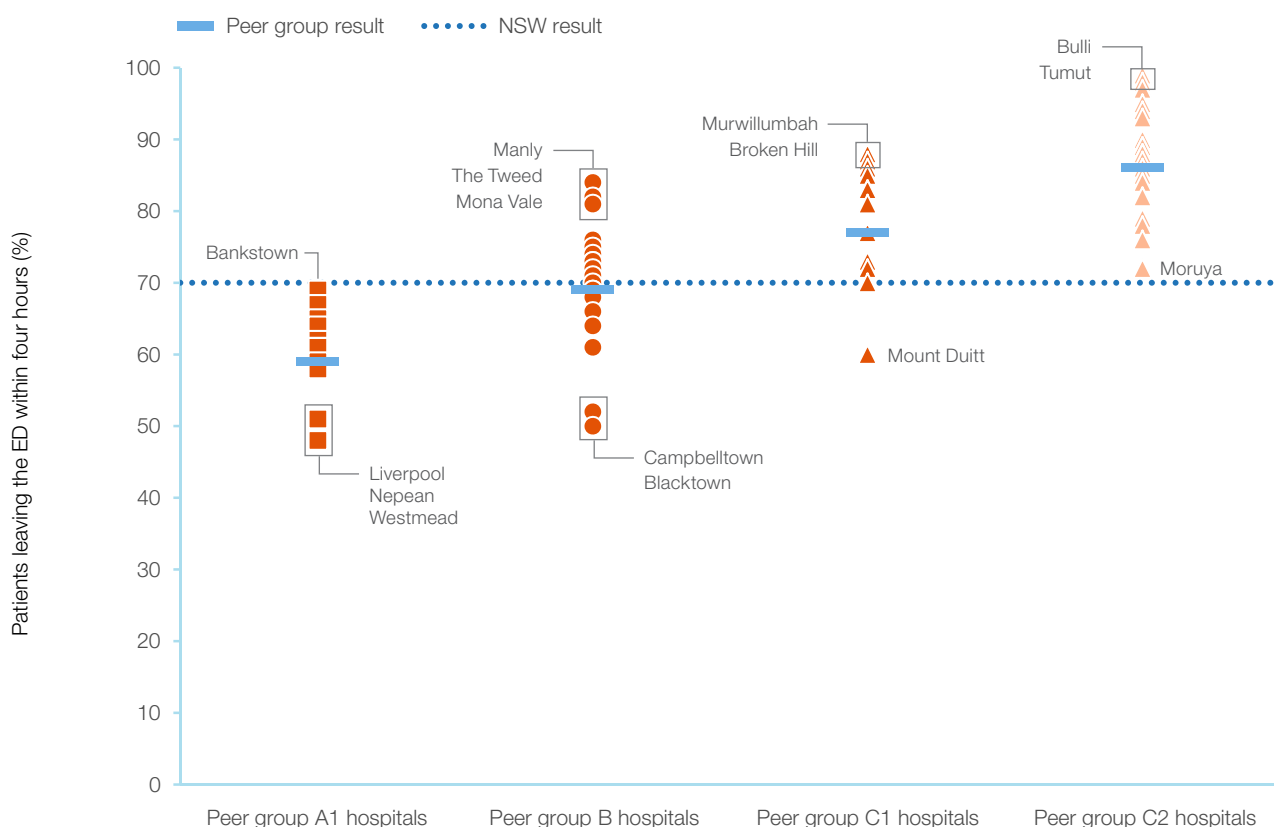
There is considerable variation between and within hospital peer groups in the percentage of patients leaving the ED within four hours. Figure 31 shows that peer group C2 hospitals generally have a higher percentage of patients leaving the ED within four hours compared with other peer group hospitals. Peer group A1 hospitals generally have a smaller percentage of patients leaving within four hours.

Figure 32 shows the results achieved by individual NSW public hospitals in the percentage of patients leaving the ED within four hours, and the change compared with the same quarter last year. The Y-axis shows this quarter's result and the X-axis shows the percentage point change in performance since the same quarter last year. Hospitals shown above the blue NSW line had a

higher percentage of patients leaving the ED within four hours this quarter compared with the overall NSW result, while those below this line had a lower percentage of patients leaving within four hours compared with the NSW result. Hospitals shown to the left of the vertical '0' line had lower results, compared with the same quarter last year, while those shown to the right of the vertical line had higher results.

Hospitals in the upper right quadrant (Figure 32) achieved higher results than NSW overall, and increased the percentage leaving within four hours, compared with the same quarter last year. Hospitals in the upper left quadrant also had results that were higher than NSW but decreased the percentage leaving within four hours.

Figure 31 Percentage of patients leaving the emergency department within four hours of presentation, by peer group, July to September 2015



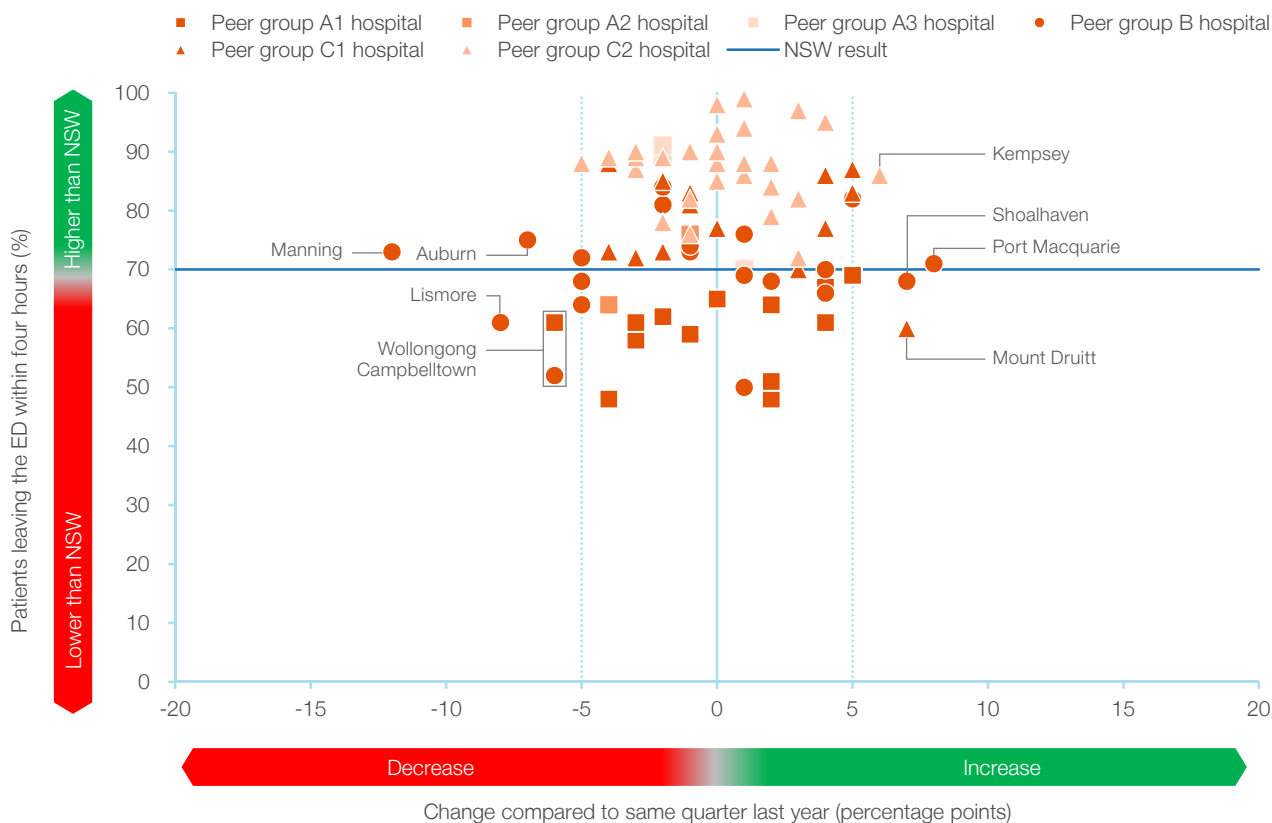
Hospitals in the lower right quadrant had results that were lower than NSW overall, but increased the percentage of patients leaving within four hours. Hospitals in the lower left quadrant had results that were lower than NSW and decreased the percentage leaving within four hours, compared with the same quarter last year.

Hospitals identified in Figure 32 are those that have increased or decreased the percentage of patients leaving within four hours by more than five percentage points compared with the same quarter last year.

This quarter, the percentage of patients leaving the ED within four hours of presentation increased in 36 out of 81 hospitals. Of these, four hospitals increased by more than five percentage points, compared with the same quarter last year (Figure 32).

The percentage of patients leaving the ED within four hours decreased in 38 hospitals. Of these, five hospitals decreased by more than five percentage points, including one that decreased by more than 10 percentage points (Figure 32).

Figure 32 Percentage of patients leaving the emergency department within four hours and percentage point change since same quarter last year, hospitals by peer group, July to September 2015



How long were patients in the emergency department?

Change over time in percentage of patients leaving within four hours

Compared with the same quarter last year, there was no change in the percentage of patients leaving ED within four hours in hospital peer groups A1 and C2. There was a decrease of one percentage point in peer group B and an increase of one percentage point in peer group C1 (Figure 33). All peer groups had a decrease in the percentage treated and admitted to hospital who had left within four hours. Peer group A1 hospitals also had a decrease in the percentage transferred to another hospital who had left within four hours (Figure 34).

Within peer groups over the past five years, there has been an increase in the percentage of patients who left within four hours across all modes of

separation, with the exception of peer group C2 (Figure 34). The most marked improvements were seen in the 18 months following mid-2012. More recently however, results have plateaued, and in some cases started to decline (Figure 33).

Over the past five years, peer group C1 and C2 hospitals have had a consistently higher percentage of patients who left the ED within four hours compared with peer group A1 and B hospitals (Figure 33). The slight decrease seen over the past five years in the percentage of patients leaving C2 peer group hospitals within four hours may be, in part, due to the addition of 14 new C2 hospitals to the *Hospital Quarterly* report since 2010.

Figure 33 Percentage of patients leaving the emergency department within four hours, by peer group, July 2010 to September 2015

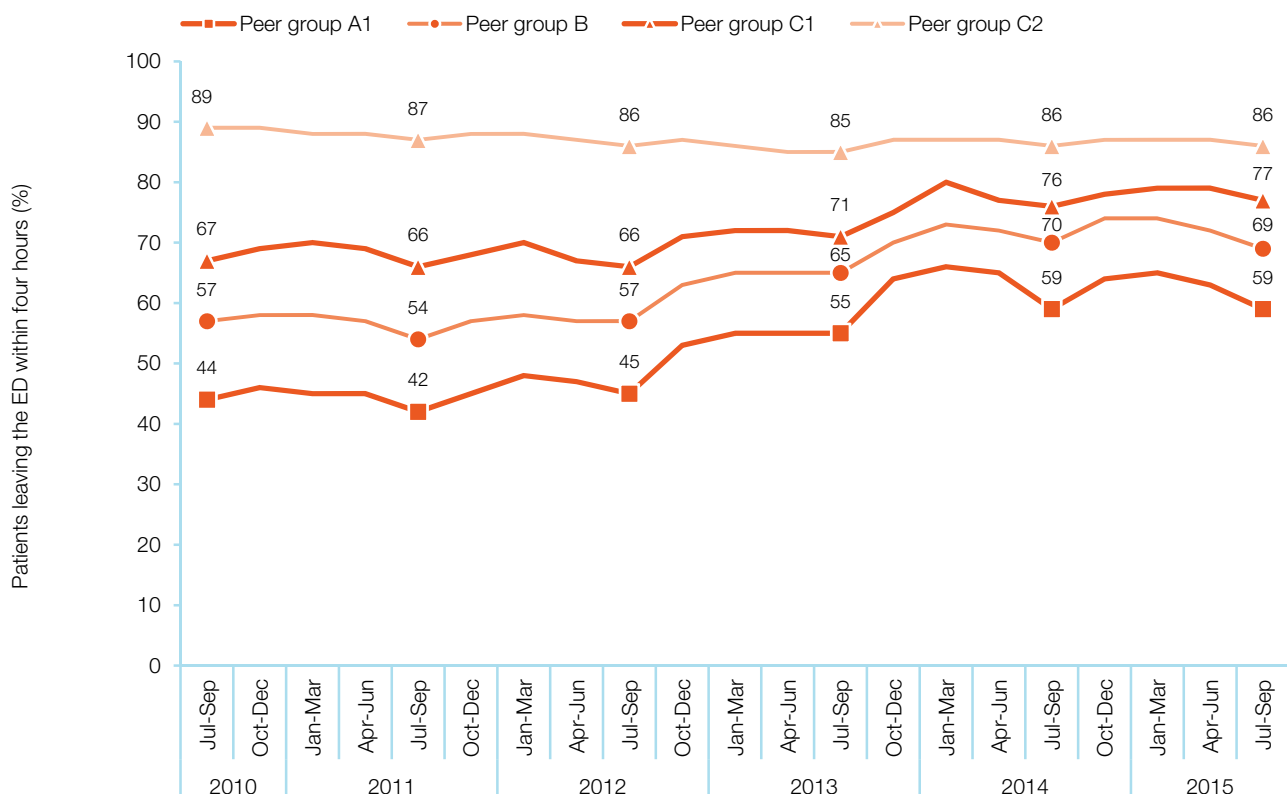
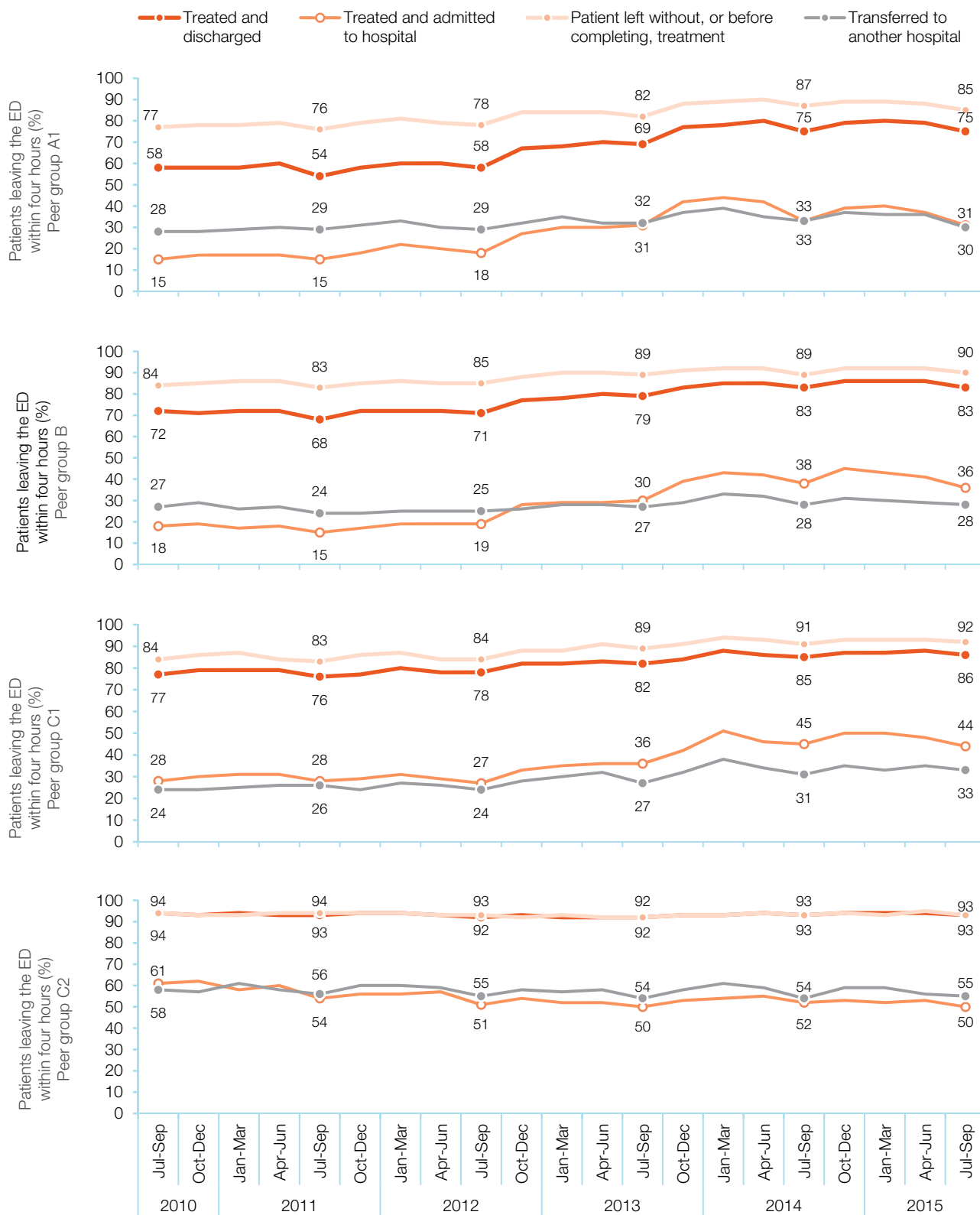


Figure 34 Percentage of patients leaving the emergency department within four hours, by mode of separation and peer group, July 2010 to September 2015



How many patients who arrived by ambulance had their care transferred within 30 minutes?

During the July to September 2015 quarter, 141,322 patients arrived at NSW EDs by ambulance (down 3% compared with the same quarter last year). This quarter, 124,151 matched patient records (matched between ambulance service and ED records) were used to calculate transfer of care time (Figure 35).

The median transfer of care time from ambulance to ED staff was unchanged this quarter (14 minutes). The 95th percentile transfer of care time (73 minutes) was 16 minutes shorter compared with the same quarter last year (Figure 35).

In NSW, there is a target of 30 minutes within which 90% of patients arriving by ambulance should have their care transferred to ED staff. This quarter, 82% of patients arriving by ambulance had their care transferred within 30 minutes; two percentage points higher than in the same quarter last year (Figure 36).

Figure 37 shows variation between and within hospital peer groups this quarter in the percentage of patients who had their care transferred within 30 minutes.

Figure 35 Emergency department transfer of care time, July to September 2015

| | This quarter | Same quarter last year | Change since one year ago |
|---|--------------|------------------------|---------------------------|
| Arrivals used to calculate transfer of care time: | 124,151 | 126,540 | -2% |
| ED Transfer of care time | | | |
| Median time | 14m | 14m | unchanged |
| 95th percentile time | 1h 13m | 1h 29m | -16m |

Figure 36 Percentage of ambulance arrivals with transfer of care time within 30 minutes, April 2013 to September 2015

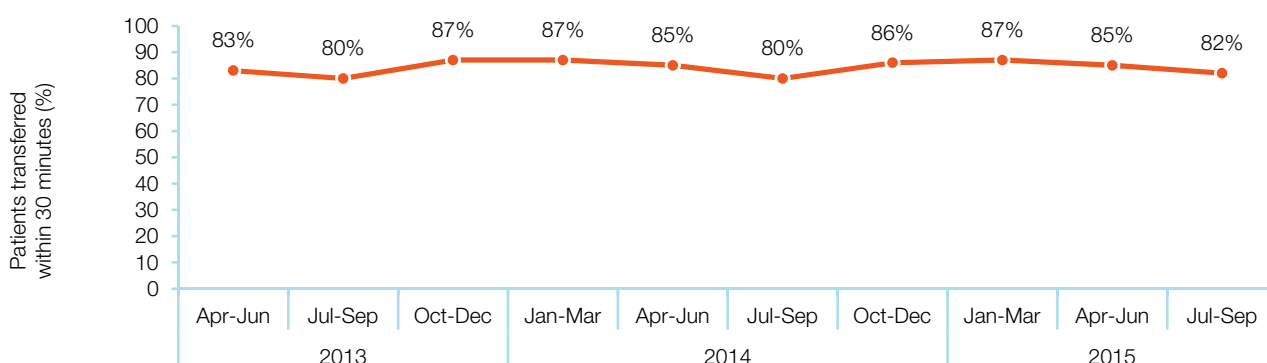
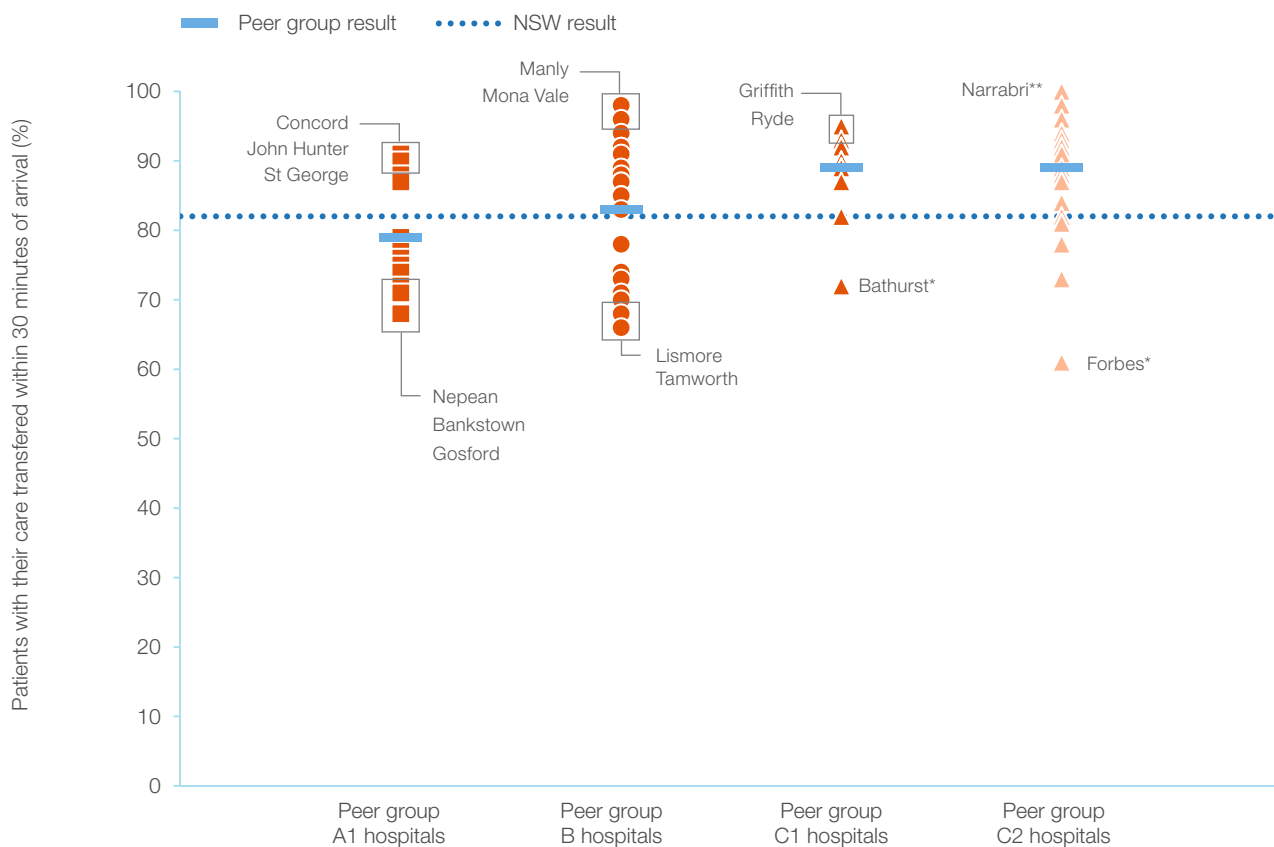


Figure 37 Percentage of ambulance arrivals with transfer of care time within 30 minutes, by peer group, July to September 2015



(*) Use caution when interpreting these results – more than 30% of total records where transfer of care cannot be calculated.

How long did patients wait for elective surgery?

During the July to September 2015 quarter, the median waiting time for urgent surgery was 11 days (Figure 38) and this has remained largely unchanged in the same quarter over the past five years (Figure 39). The median waiting time for semi-urgent surgery (45 days) was one day longer compared with the same quarter last year, while the median waiting time for non-urgent surgery (221 days) increased by five days (Figure 38).

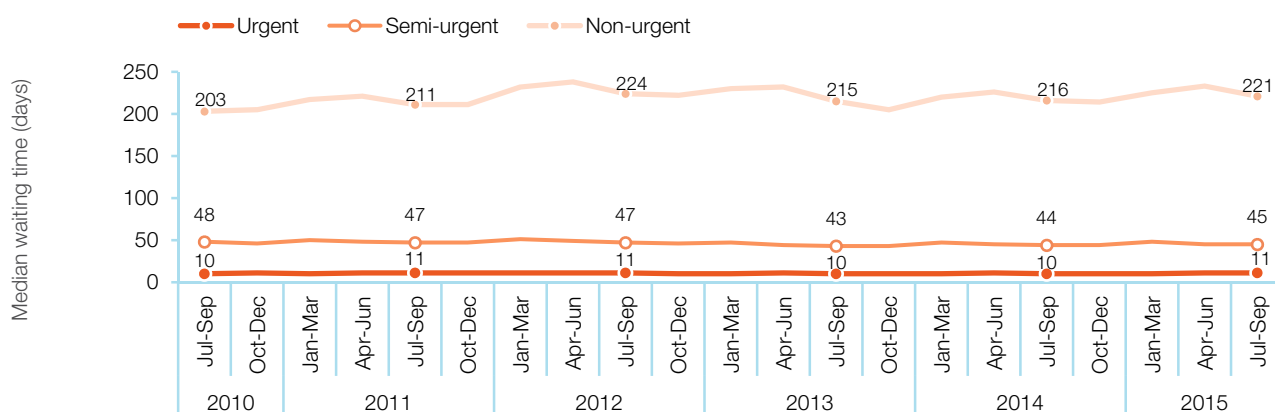
Compared with the same quarter in 2010, the median waiting time for semi-urgent surgery has decreased by three days and the median waiting time for non-urgent surgery has increased by 18 days (Figure 39).

There has been a downward trend in the 90th percentile waiting times for elective surgery across all urgency categories since the July to September 2010 quarter (Figure 40).

Figure 38 Waiting times for elective surgery, by urgency category, July to September 2015

| | This quarter | Same quarter last year | Change since one year ago |
|---|--------------|------------------------|---------------------------|
| Urgent: 12,421 patients | | | |
| Median time to receive surgery | 11 days | 10 days | 1 day |
| 90th percentile time to receive surgery | 26 days | 25 days | 1 day |
| Semi-urgent: 18,384 patients | | | |
| Median time to receive surgery | 45 days | 44 days | 1 day |
| 90th percentile time to receive surgery | 83 days | 83 days | Unchanged |
| Non-urgent: 23,094 patients | | | |
| Median time to receive surgery | 221 days | 216 days | 5 days |
| 90th percentile time to receive surgery | 356 days | 356 days | Unchanged |

Figure 39 Median waiting time for elective surgery, by urgency category, July 2010 to September 2015



Compared with the same quarter in 2010, the largest decrease in the 90th percentile waiting time for elective surgery was for procedures categorised as non-urgent saw (nine days less) (Figure 40).

recommended times for patients to receive surgery in each urgency category.

Figure 41 shows the percentage of elective surgery completed by day and urgency category for the July to September 2015 quarter. The lines drawn at 30 days, 90 days and 365 days represent the

Across NSW, 90% of elective surgery procedures were completed before the end of the recommended timeframes this quarter (four days earlier for urgent surgery, seven days earlier for semi-urgent surgery and nine days earlier for non-urgent surgery) (Figure 41).

Figure 40 90th percentile waiting time for elective surgery, by urgency category, July 2010 to September 2015

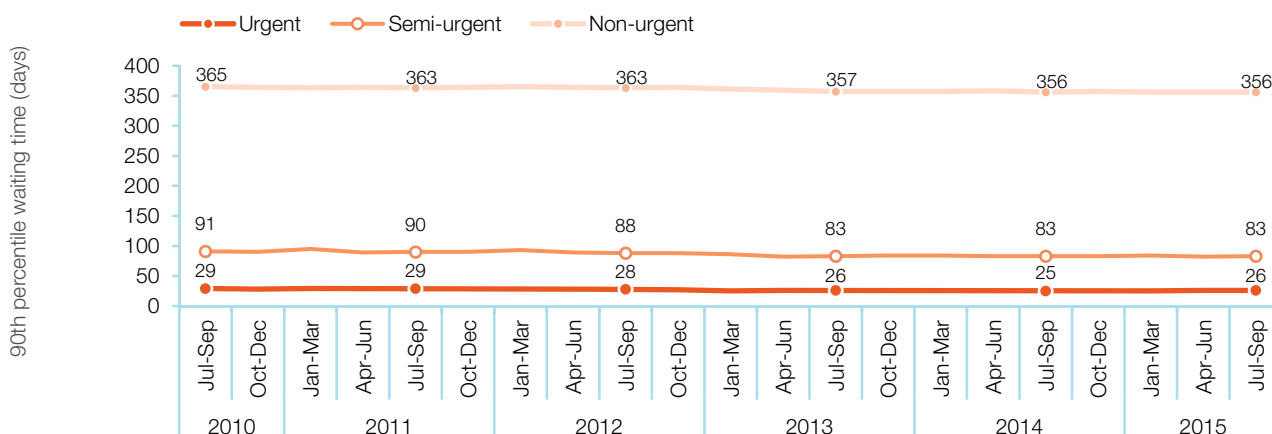
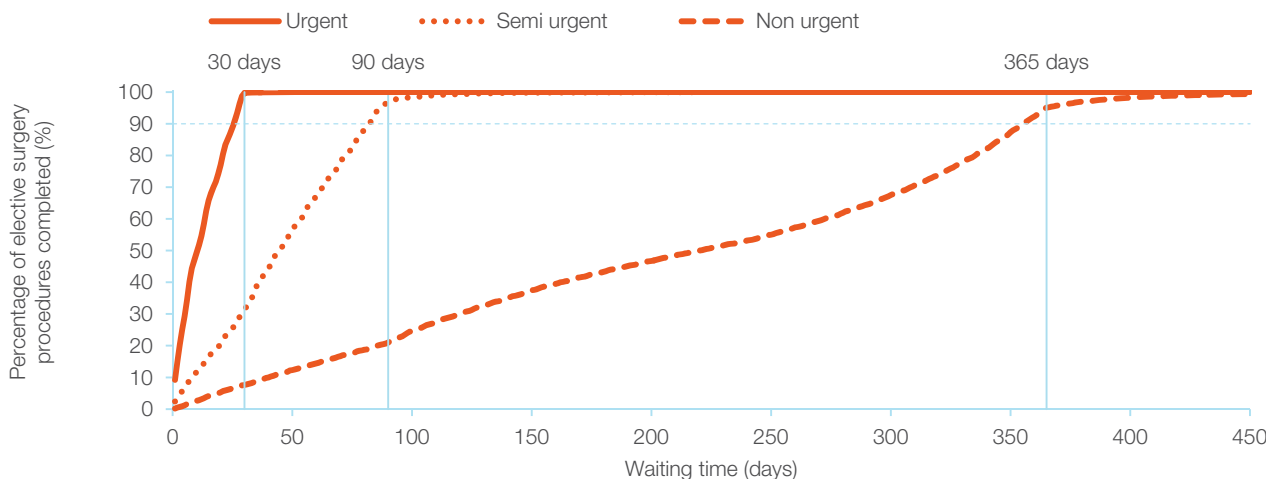


Figure 41 Cumulative percentage of elective surgery completed by day and urgency category, July to September 2015



Is there variation in the waiting times for elective surgery?

During the July to September 2015 quarter, there was variation between and within hospital peer groups in the 90th percentile waiting times for elective surgery. This variation was most marked for patients requiring non-urgent surgery (Figure 42).

Across specialty groups, median waiting times increased or remained unchanged this quarter, compared with the same quarter last year, with the exception of ear, nose and throat surgery (decreased by 40 days), general surgery and plastic surgery (both decreased by one day). Median waiting times ranged from 15 days for medical (non-specialist) surgery to 197 days for ophthalmological surgery (Figure 43).

Across common surgical procedures, myringoplasty/tympanoplasty (323 days), septoplasty (308 days) and total knee replacement (289 days) had the longest median waiting times this quarter. Other-general (22 days), coronary artery bypass graft (26 days) and cystoscopy (29 days) had the shortest median waiting times (Figure 44).

Due to the large amount of information presented, individual facilities are not identified in Figure 42. This information is available in Healthcare Observer.

Figure 42 90th percentile waiting time for elective surgery, by urgency category and peer group, July to September 2015

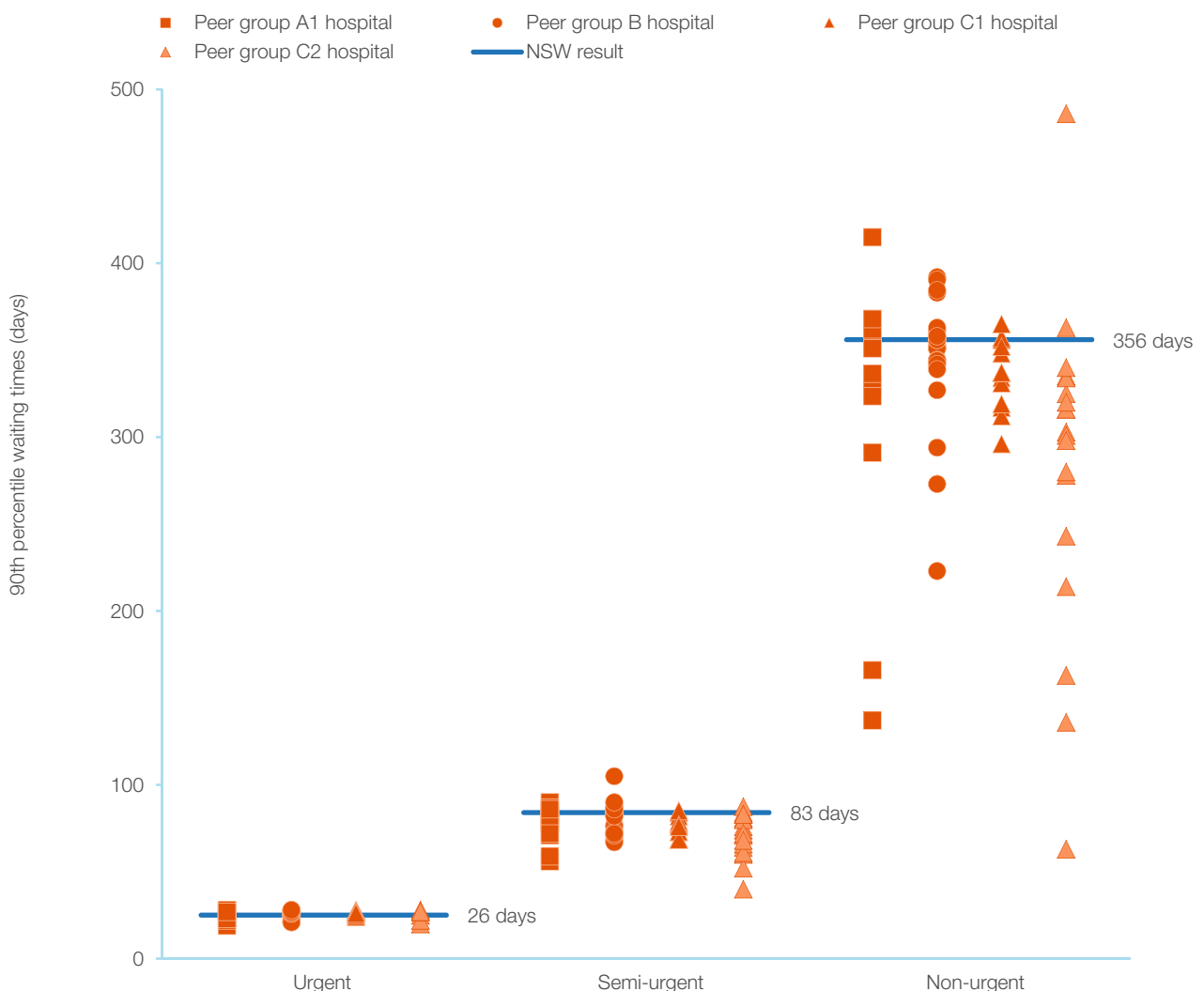


Figure 43 Median waiting time for patients who received elective surgery, by specialty, July to September 2015

| | Number of procedures | This quarter | Same quarter last year | Change since one year ago |
|------------------------------|----------------------|--------------|------------------------|---------------------------|
| General surgery | 14,085 | 35 days | 36 days | -1 day |
| Orthopaedic surgery | 8,981 | 128 days | 128 days | unchanged |
| Gynaecology | 7,800 | 39 days | 36 days | 3 days |
| Ophthalmology | 7,663 | 197 days | 168 days | 29 days |
| Urology | 7,364 | 34 days | 34 days | unchanged |
| Ear, nose and throat surgery | 4,123 | 147 days | 187 days | -40 days |
| Plastic surgery | 2,345 | 39 days | 40 days | -1 day |
| Vascular surgery | 1,578 | 20 days | 20 days | unchanged |
| Neurosurgery | 1,130 | 39 days | 30 days | 9 days |
| Cardiothoracic surgery | 963 | 24 days | 21 days | 3 days |
| Medical | 471 | 15 days | 14 days | 1 day |

Figure 44 Median waiting time for patients who received elective surgery, by common procedure, July to September 2015

| | Number of procedures | This quarter | Same quarter last year | Change since one year ago |
|---------------------------------------|----------------------|--------------|------------------------|---------------------------|
| Cataract extraction | 6,033 | 231 days | 202 days | 29 days |
| Cystoscopy | 3,322 | 29 days | 28 days | 1 day |
| Hysteroscopy | 2,521 | 34 days | 31 days | 3 days |
| Other - General | 1,813 | 22 days | 21 days | 1 day |
| Cholecystectomy | 1,674 | 55 days | 56 days | -1 day |
| Total knee replacement | 1,668 | 289 days | 292 days | -3 days |
| Inguinal herniorrhaphy | 1,639 | 68 days | 68 days | unchanged |
| Tonsillectomy | 1,288 | 254 days | 273 days | -19 days |
| Total hip replacement | 921 | 214 days | 210 days | 4 days |
| Prostatectomy | 677 | 63 days | 63 days | unchanged |
| Abdominal hysterectomy | 641 | 65 days | 56 days | 9 days |
| Septoplasty | 422 | 308 days | 329 days | -21 days |
| Haemorrhoidectomy | 402 | 57 days | 70 days | -13 days |
| Varicose veins stripping and ligation | 359 | 148 days | 116 days | 32 days |
| Coronary artery bypass graft | 229 | 26 days | 22 days | 4 days |
| Myringoplasty / Tympanoplasty | 91 | 323 days | 279 days | 44 days |
| Myringotomy | 78 | 68 days | 90 days | -22 days |

How many elective surgery procedures were performed within the recommended timeframes?

Most elective surgery procedures (97%) were performed on time this quarter (100% of urgent surgery, 97% of semi-urgent surgery and 95% of non-urgent surgery) (Figure 45). These results have been largely stable for all urgency categories in the same quarter over the past three years (Figure 46).

Figure 47 shows the change, compared with the same quarter last year, and results achieved by individual hospitals this quarter, in the percentage of elective surgery performed on time.

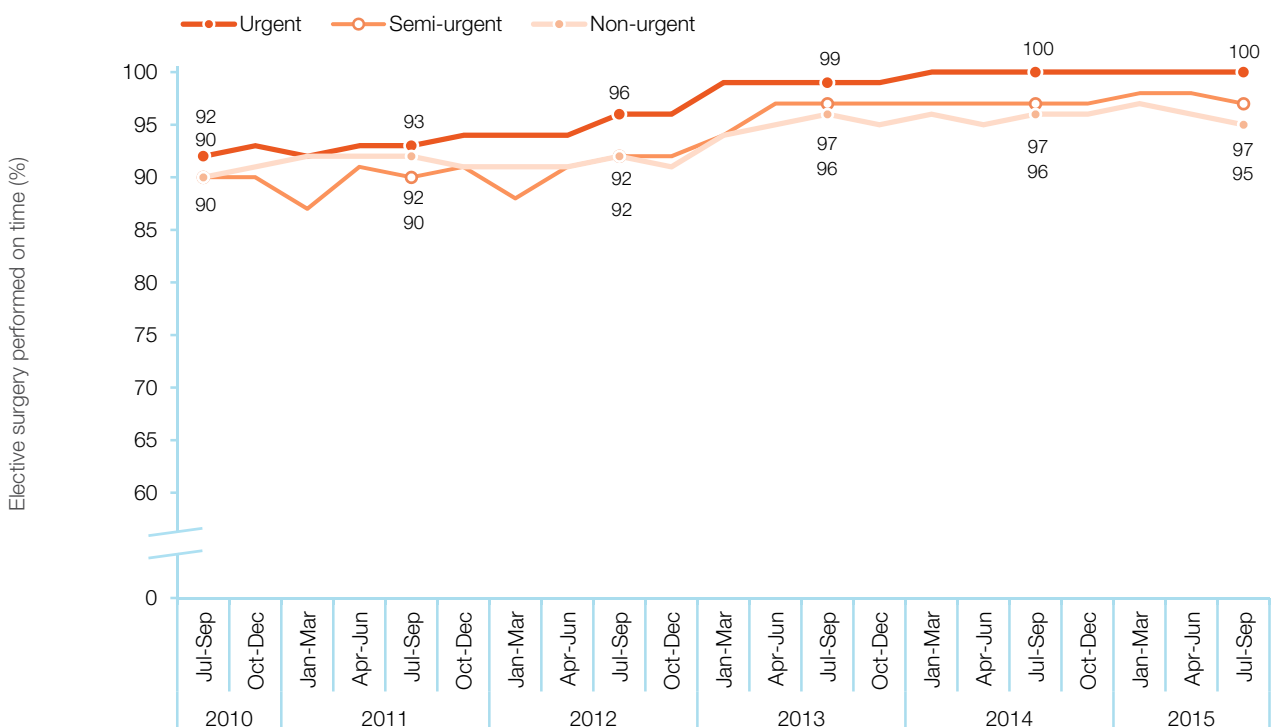
The Y-axis shows this quarter's result and the X-axis shows the percentage point change in performance since the same quarter last year.

Hospitals shown above the blue NSW line had a higher percentage of surgery performed on time this quarter compared with the overall NSW result, while those below this line had a lower percentage compared with the overall NSW result. Hospitals shown to the left of the vertical '0' line had lower results, compared with the same quarter last year, while those shown to the right of the vertical line had higher results.

Figure 45 Percentage of elective surgery procedures performed on time, by urgency, July to September 2015

| | This quarter | Same quarter last year | Change since one year ago |
|----------------------|------------------------------|------------------------|---------------------------|
| All elective surgery | 97% | 97% | unchanged |
| Urgent | Recommended: 30 days 100% | 100% | unchanged |
| Semi-urgent | Recommended: 90 days 97% | 97% | unchanged |
| Non-urgent | Recommended: 365 days 95% | 96% | -1 |

Figure 46 Percentage of elective surgery procedures performed on time, by urgency, July 2010 to September 2015



Hospitals in the upper right quadrant of Figure 47 have achieved higher results than NSW overall, and increased the percentage of elective surgery performed on time this quarter, compared with the same quarter last year. Hospitals in the upper left quadrant also achieved results higher than NSW this quarter but decreased the percentage of elective surgery performed on time, compared with the same quarter last year.

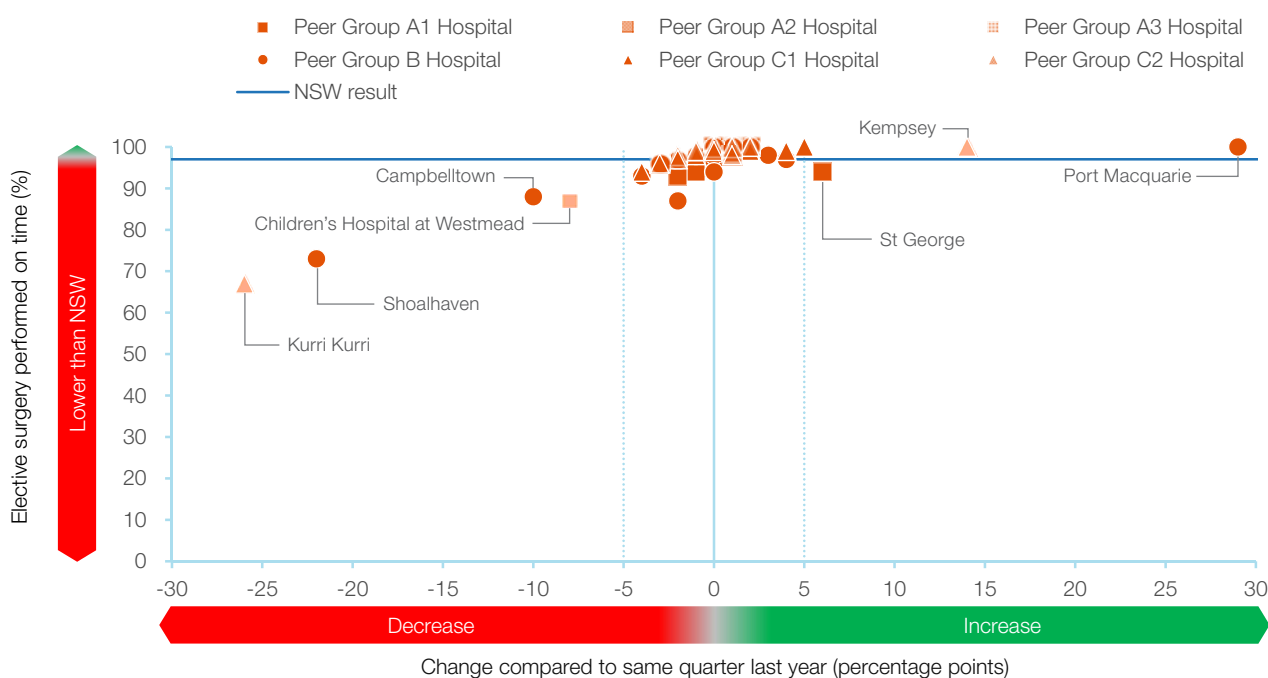
Hospitals in the lower right quadrant had results that were lower than NSW overall, but increased the percentage of elective surgery performed on time this quarter, compared with the same quarter last year. Hospitals in the lower left quadrant had results that were lower than NSW and decreased the percentage of elective surgery performed on time, compared with the same quarter last year.

Hospitals identified in Figure 47 are those that have increased or decreased the percentage of elective surgery performed on time this quarter by more than five percentage points, compared with the same quarter last year.

This quarter, the percentage of surgery performed on time increased in 25 out of 83 hospitals. Of these, three increased by more than five percentage points, including two that increased by more than 10 percentage points.

The percentage of surgery performed on time decreased in 22 hospitals. Of these, four hospitals decreased by more than five percentage points, including two that decreased by more than 10 percentage points, compared with the same quarter last year (Figure 47).

Figure 47 Percentage of elective surgery procedures performed on time and percentage point change since same quarter last year, hospitals by peer group, July to September 2015



Is there variation by specialty in the percentage of elective surgery performed on time?

The percentage of elective surgery procedures performed on time reached almost 100% this quarter across several specialty groups.

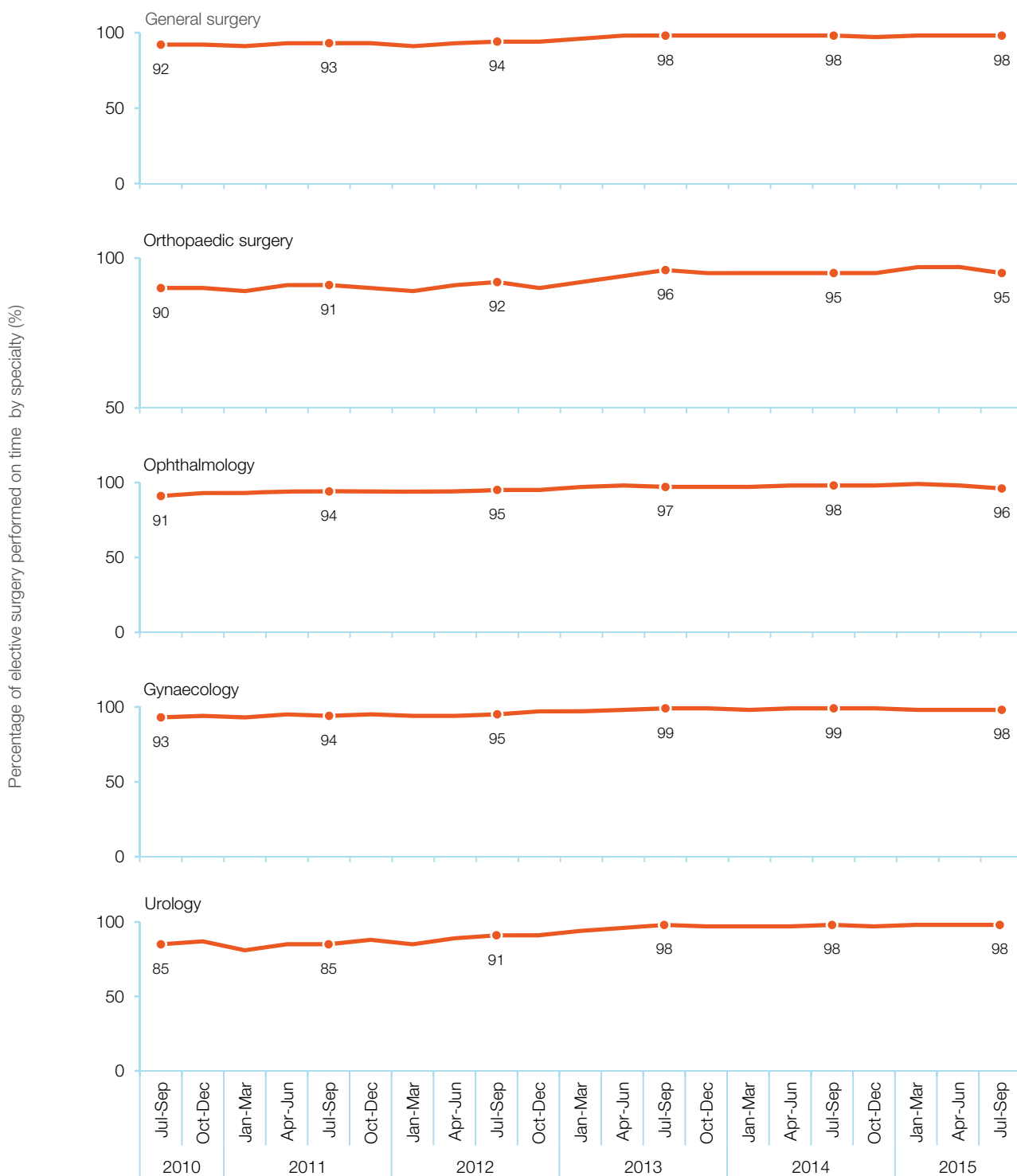
Vascular surgery and medical (non-specialist) surgery had the highest percentage of patients who received surgery on time this quarter (both 99%). Ear, nose and throat surgery and orthopaedic surgery (93% and 95% respectively) had the lowest (Figure 48).

Figure 49 shows change over the past five years in the percentage of elective surgery performed on time for the five highest volume surgical specialty groups. Urology and general surgery have seen the largest increase in the percentage of elective surgery completed within recommended timeframes since July to September 2010 (13 and six percentage point increase respectively).

Figure 48 Percentage on time, elective surgery, by specialty, July to September 2015

| | Number of procedures | Percentage on time | Same quarter last year | Percentage point change since one year ago |
|------------------------------|----------------------|--------------------|------------------------|--|
| General surgery | 14,085 | 98% | 98% | unchanged |
| Orthopaedic surgery | 8,981 | 95% | 95% | unchanged |
| Gynaecology | 7,800 | 98% | 99% | -1 |
| Ophthalmology | 7,663 | 96% | 98% | -2 |
| Urology | 7,364 | 98% | 98% | unchanged |
| Ear, nose and throat surgery | 4,123 | 93% | 95% | -2 |
| Plastic surgery | 2,345 | 97% | 98% | -1 |
| Vascular surgery | 1,578 | 99% | 98% | 1 |
| Neurosurgery | 1,130 | 96% | 98% | -2 |
| Cardiothoracic surgery | 963 | 98% | 98% | unchanged |
| Medical | 471 | 99% | 99% | unchanged |

Figure 49 Percentage of elective surgery performed on time, by specialty, July 2010 to September 2015



Is there variation by common procedure in the percentage of elective surgery performed on time?

The percentage of elective surgery procedures performed on time reached almost 100% this quarter across several common procedures.

Cystoscopy, hysteroscopy and coronary artery bypass graft (all 99%) were the procedures with the highest percentage of patients who received surgery on time this quarter, while myringoplasty/tympanoplasty (83%), myringotomy (92%) and septoplasty (93%) were the procedures with the lowest. Total hip replacement had the largest increase in the percentage of surgery performed on time this quarter compared with the

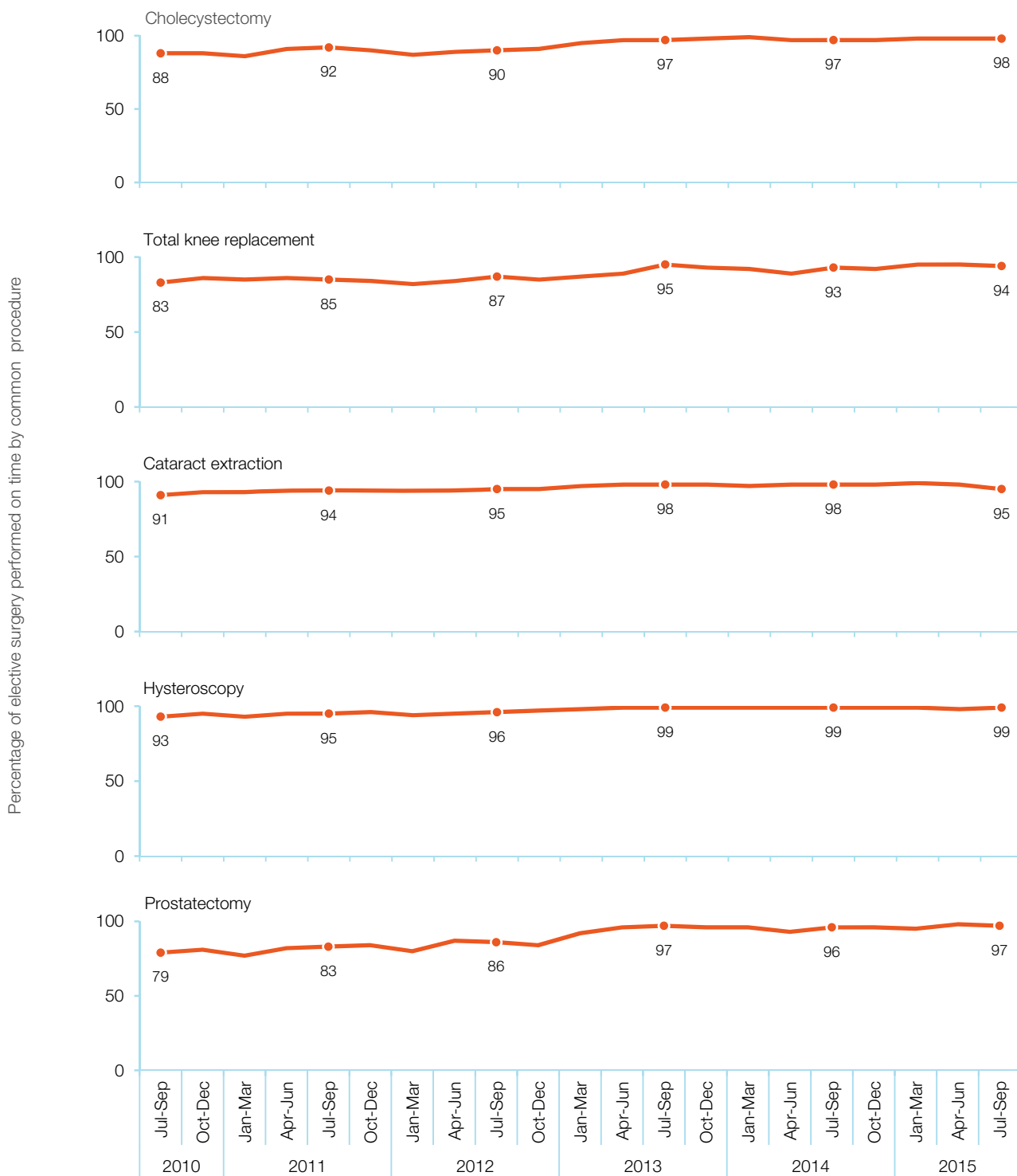
same quarter last year (up two percentage points). Myringoplasty/tympanoplasty had the largest decrease (down eight percentage points) (Figure 50).

Figure 51 shows change over the past five years in the percentage of surgery performed on time across key common procedures in five of the highest volume specialties. Since the same quarter in 2010, prostatectomy and total knee replacement have seen the largest increase in the percentage of on time surgery (18 and 11 percentage point increase respectively).

Figure 50 Percentage on time, elective surgery, by common types of procedure, July to September 2015

| | Number of procedures | Percentage on time | Same quarter last year | Percentage point change since one year ago |
|---------------------------------------|----------------------|--------------------|------------------------|--|
| Cataract extraction | 6,033 | 95% | 98% | -3 |
| Cystoscopy | 3,322 | 99% | 98% | 1 |
| Hysteroscopy | 2,521 | 99% | 99% | unchanged |
| Other - General | 1,813 | 97% | 98% | -1 |
| Cholecystectomy | 1,674 | 98% | 97% | 1 |
| Total knee replacement | 1,668 | 94% | 93% | 1 |
| Inguinal herniorrhaphy | 1,639 | 98% | 98% | unchanged |
| Tonsillectomy | 1,288 | 94% | 95% | -1 |
| Total hip replacement | 921 | 96% | 94% | 2 |
| Prostatectomy | 677 | 97% | 96% | 1 |
| Abdominal hysterectomy | 641 | 97% | 98% | -1 |
| Septoplasty | 422 | 93% | 93% | unchanged |
| Haemorrhoidectomy | 402 | 98% | 99% | -1 |
| Varicose veins stripping and ligation | 359 | 96% | 97% | -1 |
| Coronary artery bypass graft | 229 | 99% | 98% | 1 |
| Myringoplasty / Tympanoplasty | 91 | 83% | 91% | -8 |
| Myringotomy | 78 | 92% | 95% | -3 |

Figure 51 Percentage of elective surgery performed on time, by common procedures, July 2010 to September 2015



Terms and classifications

Table 4 Terms and classifications used in the report

| Emergency departments | |
|--|--|
| All presentations | All emergency and non-emergency attendances at the emergency department (ED). |
| Emergency presentations | All presentations that have a triage category and are coded as emergency presentations or unplanned return visits or disaster. |
| Presentation time | <p>Presentation time is the earliest time recorded of the patient being in the ED and the earlier of the following fields in the emergency visit database of the Health Information Exchange (HIE):</p> <p>Arrival time: the date and time the patient presented at the ED</p> <p>Triage time: the date and time when the patient was assessed by a triage nurse. Times to starting treatment and times to leaving the ED are both measured starting from presentation time.</p> |
| Treatment time | <p>Treatment time is the earlier of the following fields in the ED visit database of the HIE:</p> <p>First seen by clinician time: the date and time when the patient is first seen by a medical officer and has a physical examination / treatment performed that is relevant to their presenting problem(s)</p> <p>First seen by nurse time: the date and time when the patient is first seen by a nurse and has an assessment/treatment performed that is relevant to their presenting problem(s).</p> <p>Some patients are excluded from ED treatment time measures due to calculation requirements.</p> |
| Median time to starting treatment | The time from presentation by which half of patients started treatment. The other half of patients took equal to or longer than this time. |
| 95th percentile time to starting treatment | The time from presentation by which 95% of patients started treatment. The final 5% of patients took equal to or longer than this time. |
| Departure time | <p>BHI has revised the definition used for calculating the time taken to leave the ED in line with the definition of the Commonwealth National Emergency Access Target (NEAT).</p> <p>Departure time is defined as follows:</p> <p>For patients who were treated and discharged, departure time is the time when treatment was completed. For all other patients, departure time is the time when the patient actually left the ED.</p> |
| Median time to leaving the ED | The time within which half the patients left the ED. The other half of patients took equal to or longer than this time. The median time to leaving the ED is calculated from all ED presentations with a valid departure time. |
| 95th percentile time to leaving the ED | The time by which 95% of patients left the ED. The remaining 5% took equal to or longer than this time. The 95th percentile time to leaving the ED is calculated from all ED presentations with a valid departure time. |
| Mode of separation | <p>The way in which a patient leaves the ED.</p> <p>Emergency presentations by mode of separation includes all presentations at the ED that have a departure time recorded.</p> |

Table 4 Terms and classifications used in the report (cont)

| Emergency departments | |
|---|--|
| Percentage of patients leaving the ED within four hours | <p>The percentage of patients leaving ED within four hours is calculated from all ED presentations with a valid time to departing the ED.</p> <p>The percentage of patients leaving the ED within four hours reported in <i>Hospital Quarterly</i> is not directly comparable to figures reported by the NSW Ministry of Health or the Commonwealth due to slight differences in definitions, period of reporting and the number of hospitals included.</p> <p>Revision of departure time definition, together with the inclusion of 14 additional EDs in this issue of <i>Hospital Quarterly</i> has resulted in a two percentage point increase in the percentage of patients leaving the ED within four hours than would have otherwise been reported this quarter. For more information visit bhi.nsw.gov.au</p> |
| Transfer of care time | <p>The period between arrival of patients at the ED by ambulance and transfer of responsibility for their care from paramedics to ED staff in an ED treatment zone. Transfer of care time is calculated for records that can be matched between the ED and ambulance information systems. This report includes transfer of care times for matched records only.</p> |
| Triage category | <p>A classification system based on how urgent the patient's need is for treatment:</p> <p>Triage 1: Resuscitation (for example, cardiac arrest) Triage 2: Emergency (for example, chest pain, severe burns) Triage 3: Urgent (for example, moderate blood loss, dehydration) Triage 4: Semi-urgent (for example, sprained ankle, earache) Triage 5: Non-urgent (for example, small cuts, abrasions).</p> |
| Hospital admissions | |
| Episode of care | <p>A period of care in a hospital or other healthcare facility with a defined start and end.</p> <p>When a person is admitted to hospital they begin what is termed an admitted patient episode or 'episode of care'. Acute episodes are typically short-term admissions for immediate care or treatment. Non-acute episodes include admissions for rehabilitation, palliative care and other non-acute reasons.</p> <p>Patients can have more than one episode of care during the same hospital admission. For example, a patient may begin with acute care and then change to rehabilitation or palliative care.</p> |
| Stay type | <p>Admitted patient episodes can be for 'same-day' or 'overnight' care. Same-day refers to patients who are admitted and discharged on the same day. Overnight refers to patients who spend at least one night in hospital.</p> <p>Admitted patient episodes can be either 'planned' or 'unplanned'. Planned refers to admissions that are arranged in advance (for example, patients who are admitted for planned elective surgery). Unplanned refers to emergency admissions (for example, for unplanned surgical patients).</p> |
| Average length of stay | <p>The total number of days in hospital for all admitted patient episodes (including same-day and overnight patients) divided by the total number of admitted patient episodes. The average length of stay is usually measured from midnight.</p> |
| Bed days | <p>Bed days are calculated for all admitted patient episodes completed during the reference period. Total acute bed days is the sum of bed days for all acute episodes with an episode end date within the defined period. Total acute bed days for an overnight episode is the difference, in days, between the episode start date and the episode end date, minus the number of episode leave days recorded. Same-day episodes count as one bed day.</p> |

Terms and classifications

Table 4 Terms and classifications used in the report (cont)

| Elective surgery | |
|-------------------------------|--|
| Common procedure | Commonly performed elective surgery procedures. |
| Specialty | The area of clinical expertise held by the doctor who performed the surgery. Medical (specialty) refers to any surgery performed by a non-specialist medical practitioner. |
| Median waiting time | The number of days by which half of patients received surgery. The other half took equal to or longer than this time. |
| 90th percentile waiting time | The number of days by which 90% of patients received surgery. The remaining 10% took equal to or longer than this time. |
| Urgency category | <p>A classification system based on how urgent the patient's need for surgery is:</p> <p>Urgent surgery: Admission within 30 days is desirable for a condition that has potential to deteriorate quickly and become an emergency</p> <p>Semi-urgent surgery: Admission within 90 days is desirable for a condition unlikely to deteriorate quickly</p> <p>Non-urgent surgery: Admission within 365 days acceptable for a condition unlikely to deteriorate quickly.</p> |
| Staged surgery | <p>Surgery that, for medical reasons, cannot take place before a certain amount of time has elapsed. BHI uses this term to define all patients that could be identified as being a staged patient for most of their time on the waiting list and all non-urgent cystoscopy patients.</p> <p>Because of differences in how hospitals have historically coded cystoscopy, BHI includes all non-urgent cystoscopy in the staged surgery category for measures of surgical activity.</p> |
| Elective surgery waiting list | <p>Patients ready for elective surgery and on the waiting list excludes those waiting for staged procedures. Patients ready for non-urgent surgery on the waiting list also excludes those waiting for non-urgent cystoscopy.</p> <p>Patients not ready for surgery on the waiting list includes those waiting for staged procedures, non-urgent cystoscopy, and patients currently not available for personal reasons.</p> <p>The time a patient waited for the initial appointment with a specialist is not included in the time a patient spent on the waiting list for elective surgery.</p> |

Appendix tables

These tables present activity and performance measures for individual hospitals from principal referral (peer group A1), paediatric specialist hospitals (peer group A2), ungrouped acute – tertiary referral hospitals (peer group A3), major hospitals (peer group B), district group 1 (peer group C1) and district group 2 hospitals (peer group C2). Information for smaller hospitals is presented under the category ‘Other’.

Hospital admissions

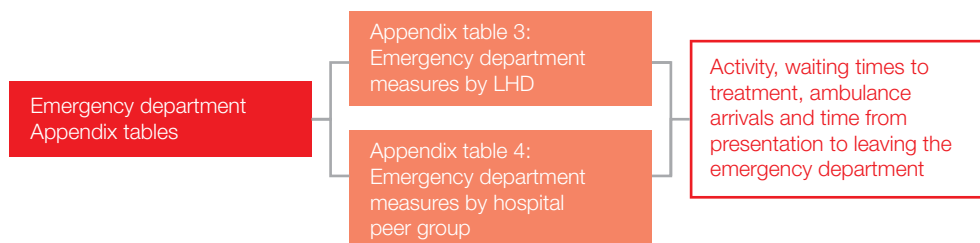
Appendix tables 1 and 2 present hospital admission activity measures for public hospitals in NSW for this quarter, by local health district (LHD) and hospital peer group.

- Download appendix tables by LHD
- Download appendix tables by hospital peer group

Emergency departments

Appendix tables 3 and 4 present emergency department activity and performance measures for public hospitals in NSW for this quarter, by LHD and hospital peer group.

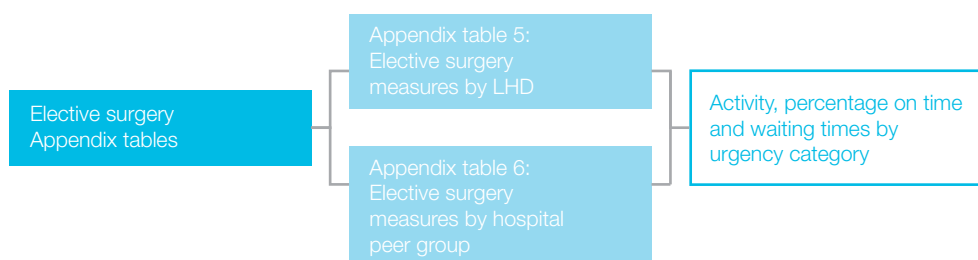
- Download appendix tables by LHD
- Download appendix tables by hospital peer group



Elective surgery

Appendix tables 5 and 6 present elective surgery activity and performance measures for public hospitals in NSW for this quarter, by LHD and hospital peer group.

- Download appendix tables by LHD
- Download appendix tables by hospital peer group



Index of hospitals by local health district and hospital peer group

| Hospital name | Local health district | Hospital peer group |
|---|-----------------------|---------------------|
| Armidale and New England Hospital | Hunter New England | C1 |
| Auburn Hospital | Western Sydney | B |
| Ballina District Hospital | Northern NSW | C2 |
| Bankstown/Lidcombe Hospital | South Western Sydney | A1 |
| Bateman's Bay District Hospital | Southern NSW | C2 |
| Bathurst Base Hospital | Western NSW | C1 |
| Bega District Hospital | Southern NSW | C1 |
| Bellingen River District Hospital | Mid North Coast | C2 |
| Belmont Hospital | Hunter New England | C1 |
| Blacktown Hospital | Western Sydney | B |
| Blue Mountains District Anzac Memorial Hospital | Nepean Blue Mountains | C2 |
| Bowral and District Hospital | South Western Sydney | C1 |
| Broken Hill Base Hospital | Far West | C1 |
| Bulli District Hospital | Illawarra Shoalhaven | C2 |
| Calvary Mater Newcastle | Hunter New England | A3 |
| Camden Hospital | South Western Sydney | C2 |
| Campbelltown Hospital | South Western Sydney | B |
| Canterbury Hospital | Sydney | B |
| Casino and District Memorial Hospital | Northern NSW | C2 |
| Cessnock District Hospital | Hunter New England | C2 |
| Coffs Harbour Base Hospital | Mid North Coast | B |
| Concord Hospital | Sydney | A1 |
| Cooma Health Service | Southern NSW | C2 |
| Cowra District Hospital | Western NSW | C2 |
| Deniliquin Health Service | Murrumbidgee | C2 |
| Dubbo Base Hospital | Western NSW | B |
| Fairfield Hospital | South Western Sydney | B |
| Forbes District Hospital | Western NSW | C2 |
| Gosford Hospital | Central Coast | A1 |
| Goulburn Base Hospital | Southern NSW | C1 |
| Grafton Base Hospital | Northern NSW | C1 |
| Griffith Base Hospital | Murrumbidgee | C1 |
| Gunnedah District Hospital | Hunter New England | C2 |
| Hawkesbury District Health Services (public hospital services only) | Nepean Blue Mountains | C1 |
| Hornsby and Ku-Ring-Gai Hospital | Northern Sydney | B |
| Inverell District Hospital | Hunter New England | C2 |
| John Hunter Hospital | Hunter New England | A1 |
| Kempsey Hospital | Mid North Coast | C2 |
| Kurri Kurri District Hospital | Hunter New England | C2 |
| Lismore Base Hospital | Northern NSW | B |
| Lithgow Health Service | Nepean Blue Mountains | C2 |
| Liverpool Hospital | South Western Sydney | A1 |
| Macksville District Hospital | Mid North Coast | C2 |
| Maclean District Hospital | Northern NSW | C2 |

| Hospital name | Local health district | Hospital peer group |
|---|-----------------------------|---------------------|
| Maitland Hospital | Hunter New England | B |
| Manly District Hospital | Northern Sydney | B |
| Manning Base Hospital | Hunter New England | B |
| Milton and Ulladulla Hospital | Illawarra Shoalhaven | C2 |
| Mona Vale and District Hospital | Northern Sydney | B |
| Moree District Hospital | Hunter New England | C2 |
| Moruya District Hospital | Southern NSW | C2 |
| Mount Druitt Hospital | Western Sydney | C1 |
| Mudgee District Hospital | Western NSW | C2 |
| Murwillumbah District Hospital | Northern NSW | C1 |
| Muswellbrook District Hospital | Hunter New England | C2 |
| Narrabri District Hospital | Hunter New England | C2 |
| Nepean Hospital | Nepean Blue Mountains | A1 |
| Orange Health Service | Western NSW | B |
| Parkes District Hospital | Western NSW | C2 |
| Port Macquarie Base Hospital | Mid North Coast | B |
| Prince of Wales Hospital | South Eastern Sydney | A1 |
| Queanbeyan Health Service | Southern NSW | C2 |
| Royal Hospital for Women | South Eastern Sydney | A3 |
| Royal North Shore Hospital | Northern Sydney | A1 |
| Royal Prince Alfred Hospital | Sydney | A1 |
| RPAH Institute of Rheumatology & Orthopaedics | Sydney | A1 |
| Ryde Hospital | Northern Sydney | C1 |
| Shellharbour Hospital | Illawarra Shoalhaven | C1 |
| Shoalhaven and District Memorial Hospital | Illawarra Shoalhaven | B |
| Singleton District Hospital | Hunter New England | C2 |
| St George Hospital | South Eastern Sydney | A1 |
| St Vincent's Hospital, Darlinghurst | St Vincent's Health Network | A1 |
| Sutherland Hospital | South Eastern Sydney | B |
| Sydney Children's Hospital | Sydney Children's Network | A2 |
| Sydney Eye Hospital | South Eastern Sydney | A3 |
| Sydney Hospital | South Eastern Sydney | A3 |
| Tamworth Base Hospital | Hunter New England | B |
| The Children's Hospital at Westmead | Sydney Children's Network | A2 |
| The Tweed Hospital | Northern NSW | B |
| Tumut Health Service | Murrumbidgee | C2 |
| Wagga Wagga Base Hospital | Murrumbidgee | B |
| Westmead Hospital | Western Sydney | A1 |
| Wollongong Hospital | Illawarra Shoalhaven | A1 |
| Wyong Hospital | Central Coast | B |
| Young Health Service | Murrumbidgee | C2 |

Acknowledgements

The Bureau of Health Information (BHI) is the main source of information for the people of NSW about the performance of their healthcare system. A NSW-based board-governed organisation, BHI, is led by Acting Chairperson Liz Rummery AM and Chief Executive Jean-Frédéric Lévesque MD, PhD.

BHI would like to thank the expert advisors and reviewers alongside staff that contributed to the development of the Hospital Quarterly report. BHI acknowledges the contribution of the NSW Ministry of Health, including through the provision and validation of data and peer review of the report.

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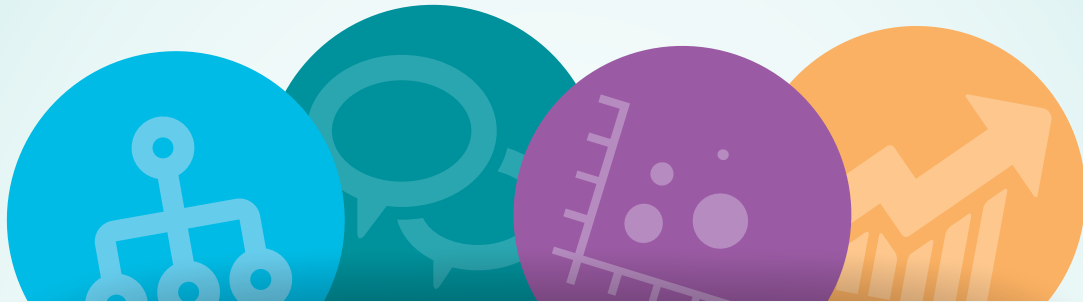
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departments

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The Bureau of Health Information (BHI) is a board-governed organisation that provides independent reports about the performance of the NSW public healthcare system.

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BHI supports the accountability of the healthcare system by providing regular and detailed information to the community, government and healthcare professionals. This in turn supports quality improvement by highlighting how well the healthcare system is functioning and where there are opportunities to improve.

BHI publishes a range of reports and tools that provide relevant, accurate and impartial information about how the NSW healthcare system is measuring up in terms of:

- Accessibility: healthcare when and where needed
- Appropriateness: the right healthcare, the right way
- Effectiveness: making a difference for patients
- Efficiency: value for money
- Equity: health for all, healthcare that's fair
- Sustainability: caring for the future

BHI also manages the NSW Patient Survey Program, gathering information from patients about their experiences in public hospitals and healthcare facilities.

bhi.nsw.gov.au