

From March 2017, Hospital Quarterly reports the 90th percentile time, rather than the 95th percentile time, for related ED measures.

Hawkesbury District Health Services: Emergency department (ED) overview

January to March 2017

All presentations:¹ 6,085 patients
Emergency presentations:² 5,757 patients

| | Same period last year | Change since one year ago |
|---------------------------------------|-----------------------|---------------------------|
| All presentations: ¹ | 6,138 | -0.9% |
| Emergency presentations: ² | 5,705 | 0.9% |

Hawkesbury District Health Services: Time patients waited to start treatment³

January to March 2017

Triage 2 Emergency (e.g. chest pain, severe burns): 644 patients

Median time to start treatment⁴ 9 minutes
90th percentile time to start treatment⁵ 20 minutes

Triage 3 Urgent (e.g. moderate blood loss, dehydration): 1,677 patients

Median time to start treatment⁴ 15 minutes
90th percentile time to start treatment⁵ 40 minutes

Triage 4 Semi-urgent (e.g. sprained ankle, earache): 3,118 patients

Median time to start treatment⁴ 15 minutes
90th percentile time to start treatment⁵ 63 minutes

Triage 5 Non-urgent (e.g. small cuts or abrasions): 297 patients

Median time to start treatment⁴ 13 minutes
90th percentile time to start treatment⁵ 57 minutes

| | Same period last year | NSW (this period) |
|---|-----------------------|-------------------|
| All presentations: ¹ | 554 | |
| Emergency presentations: ² | 12 minutes | 8 minutes |
| Urgent presentations: ² | 27 minutes | 26 minutes |
| Semi-urgent presentations: ² | 1,514 | |
| Non-urgent presentations: ² | 20 minutes | 20 minutes |
| All presentations: ¹ | 39 minutes | 69 minutes |
| Emergency presentations: ² | 3,011 | |
| Urgent presentations: ² | 21 minutes | 26 minutes |
| Semi-urgent presentations: ² | 57 minutes | 101 minutes |
| Non-urgent presentations: ² | 618 | |
| All presentations: ¹ | 20 minutes | 23 minutes |
| Emergency presentations: ² | 71 minutes | 104 minutes |

Hawkesbury District Health Services: Time from presentation until leaving the ED

January to March 2017

Attendances used to calculate time to leaving the ED:⁶ 6,085 patients

Percentage of patients who spent four hours or less in the ED 74.8%

| | Same period last year | Change since one year ago |
|--|-----------------------|---------------------------|
| Attendances used to calculate time to leaving the ED: ⁶ | 6,138 | -0.9% |
| Percentage of patients who spent four hours or less in the ED | 82.4% | |

* Suppressed due to small number of patients and to protect privacy. Relevant graphs are also suppressed.

- All emergency and non-emergency attendances at the emergency department (ED).
- All attendances that have a triage category and are coded as emergency presentations or unplanned return visits.
- Some patients are excluded from ED time measures due to calculation requirements. For details, see the *Technical Supplement: Emergency department measures, July to September 2016*.
- The median is the time by which half of patients started treatment. The other half of patients waited equal to or longer than this time.
- The 90th percentile is the time by which 90% of patients started treatment. The final 10% of patients waited equal to or longer than this time.
- All presentations that have a departure time.

Note: Presentation time is the earlier time recorded for clerical registration or the triage process. Treatment time is the earliest time recorded when a healthcare professional provides medical care relevant to the patient's presenting problems.

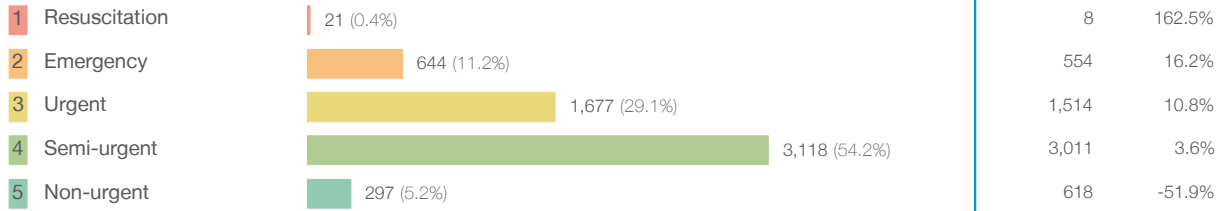
Source: Health Information Exchange, NSW Health (extracted 18 April 2017).

From March 2017, Hospital Quarterly reports the 90th percentile time, rather than the 95th percentile time, for related ED measures.

Hawkesbury District Health Services: Patients presenting to the emergency department January to March 2017

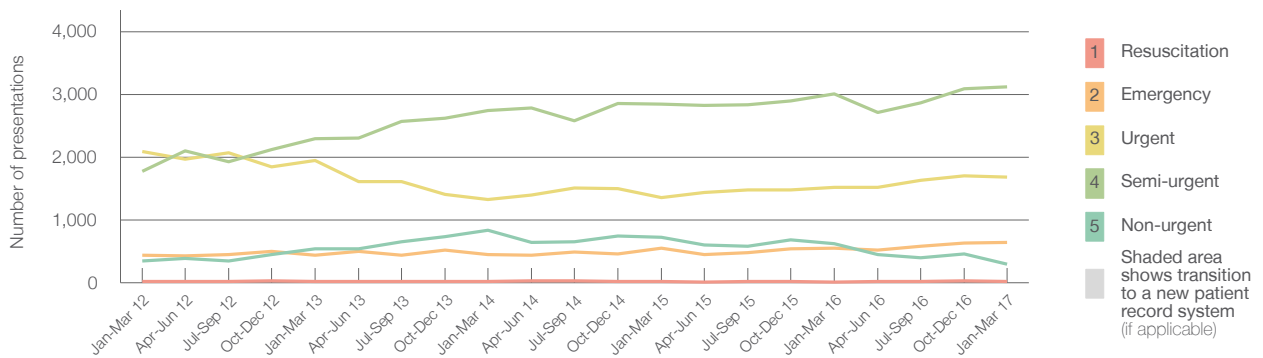
All presentations:¹ 6,085 patients

Emergency presentations² by triage category: 5,757 patients



| Same period last year | Change since one year ago |
|-----------------------|---------------------------|
| 6,138 | -0.9% |
| 5,705 | 0.9% |
| 8 | 162.5% |
| 554 | 16.2% |
| 1,514 | 10.8% |
| 3,011 | 3.6% |
| 618 | -51.9% |

Emergency presentations² by quarter, January 2012 to March 2017 * §



| | Jan-Mar 2012 | Jan-Mar 2013 | Jan-Mar 2014 | Jan-Mar 2015 | Jan-Mar 2016 | Jan-Mar 2017 |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Resuscitation | 21 | 17 | 20 | 17 | 8 | 21 |
| Emergency | 436 | 434 | 447 | 545 | 554 | 644 |
| Urgent | 2,087 | 1,949 | 1,322 | 1,355 | 1,514 | 1,677 |
| Semi-urgent | 1,775 | 2,290 | 2,745 | 2,846 | 3,011 | 3,118 |
| Non-urgent | 343 | 540 | 838 | 720 | 618 | 297 |
| All emergency presentations | 4,662 | 5,230 | 5,372 | 5,483 | 5,705 | 5,757 |

Hawkesbury District Health Services: Patients arriving by ambulance January to March 2017

January to March 2017

Arrivals used to calculate transfer of care time:⁷ 917 patients

ED Transfer of care time



| Same period last year | Change since one year ago |
|-----------------------|---------------------------|
| 1,008 | |
| 17 minutes | -5 minutes |
| 32 minutes | -7 minutes |

(†) Data points are not shown in graphs for quarters when patient numbers are too small.

(‡) Caution is advised when interpreting abrupt changes over time at the hospital level. For example, performance before and after transition to a new information system is not directly comparable. For more information, see Background Paper: Approaches to reporting time measures of emergency department performance, December 2011.

(§) This hospital does not use one of the two major information systems implemented in NSW emergency departments. Caution is advised when comparing results from this emergency department to others. For more information, see Background Paper: Approaches to reporting time measures of emergency department performance, December 2011.

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Hawkesbury District Health Services: Time patients waited to start treatment, triage 2 January to March 2017

Triage 2 Emergency (e.g. chest pain, severe burns)

Number of triage 2 patients: 644

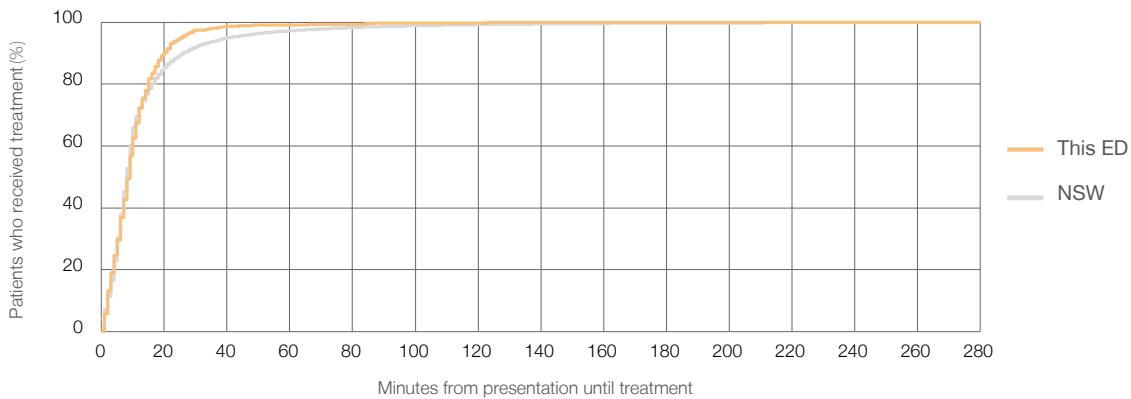
Number of triage 2 patients used to calculate waiting time:³ 644

Median time to start treatment⁴ 9 minutes

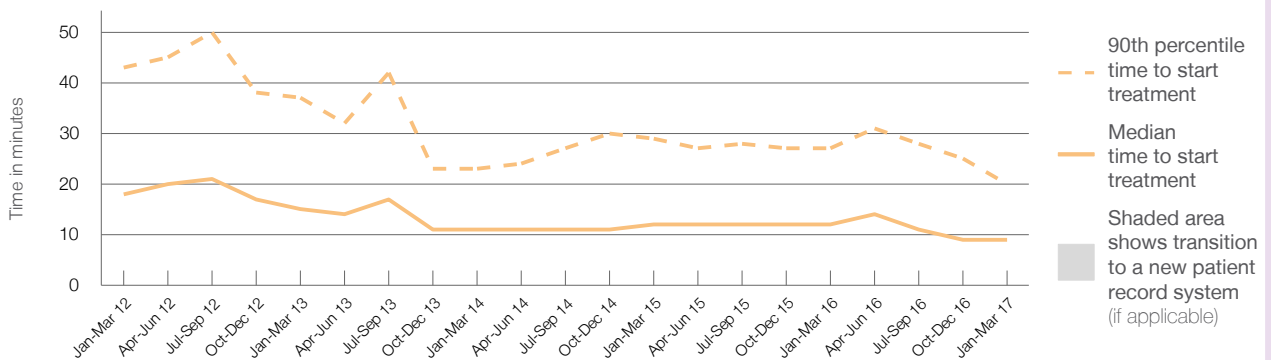
90th percentile time to start treatment⁵ 20 minutes

| Same period last year | NSW (this period) |
|-----------------------|-------------------|
| 554 | 554 |
| 12 minutes | 8 minutes |
| 27 minutes | 26 minutes |

Percentage of triage 2 patients who received treatment by time, January to March 2017



Time patients waited to start treatment (minutes) for triage 2 patients, January 2012 to March 2017^{†‡§}



| | Jan-Mar 2012 | Jan-Mar 2013 | Jan-Mar 2014 | Jan-Mar 2015 | Jan-Mar 2016 | Jan-Mar 2017 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Median time to start treatment ⁴ (minutes) | 18 | 15 | 11 | 12 | 12 | 9 |
| 90th percentile time to start treatment ⁵ (minutes) | 43 | 37 | 23 | 29 | 27 | 20 |

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Hawkesbury District Health Services: Time patients waited to start treatment, triage 3 January to March 2017

Triage 3 Urgent (e.g. moderate blood loss, dehydration)

Number of triage 3 patients: 1,677

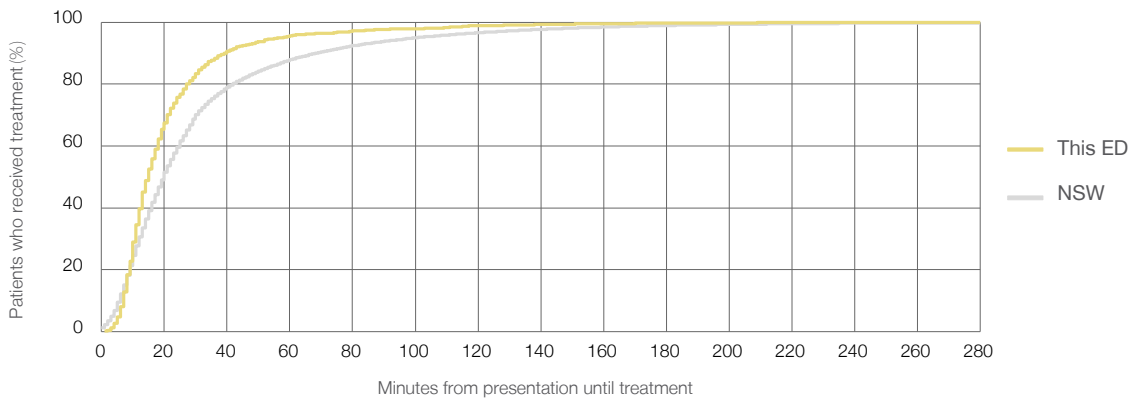
Number of triage 3 patients used to calculate waiting time:³ 1,676

Median time to start treatment⁴ 15 minutes

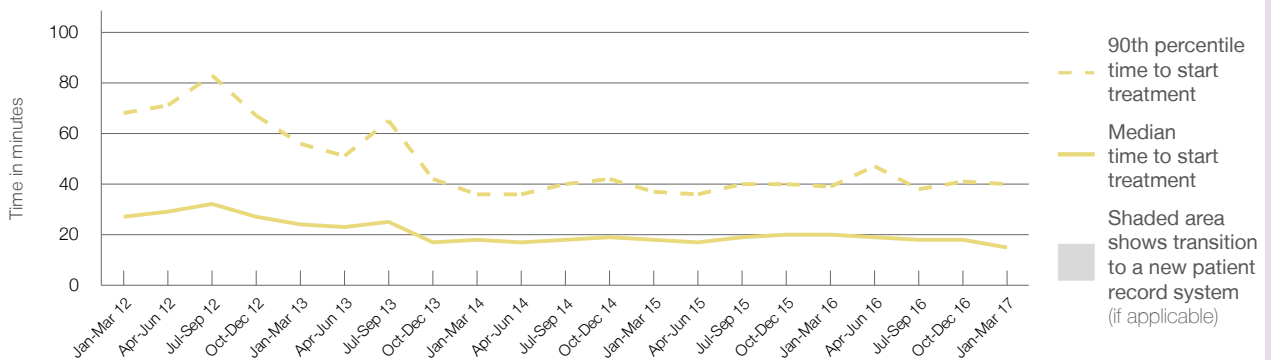
90th percentile time to start treatment⁵ 40 minutes

| | Same period last year | NSW (this period) |
|--|-----------------------|-------------------|
| Number of triage 3 patients | 1,514 | 1,513 |
| Median time to start treatment ⁴ | 20 minutes | 20 minutes |
| 90th percentile time to start treatment ⁵ | 39 minutes | 69 minutes |

Percentage of triage 3 patients who received treatment by time, January to March 2017



Time patients waited to start treatment (minutes) for triage 3 patients, January 2012 to March 2017^{†‡§}



| | Jan-Mar 2012 | Jan-Mar 2013 | Jan-Mar 2014 | Jan-Mar 2015 | Jan-Mar 2016 | Jan-Mar 2017 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Median time to start treatment ⁴ (minutes) | 27 | 24 | 18 | 18 | 20 | 15 |
| 90th percentile time to start treatment ⁵ (minutes) | 68 | 56 | 36 | 37 | 39 | 40 |

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Hawkesbury District Health Services: Time patients waited to start treatment, triage 4 January to March 2017

Triage 4 Semi-urgent (e.g. sprained ankle, earache)

Number of triage 4 patients: 3,118

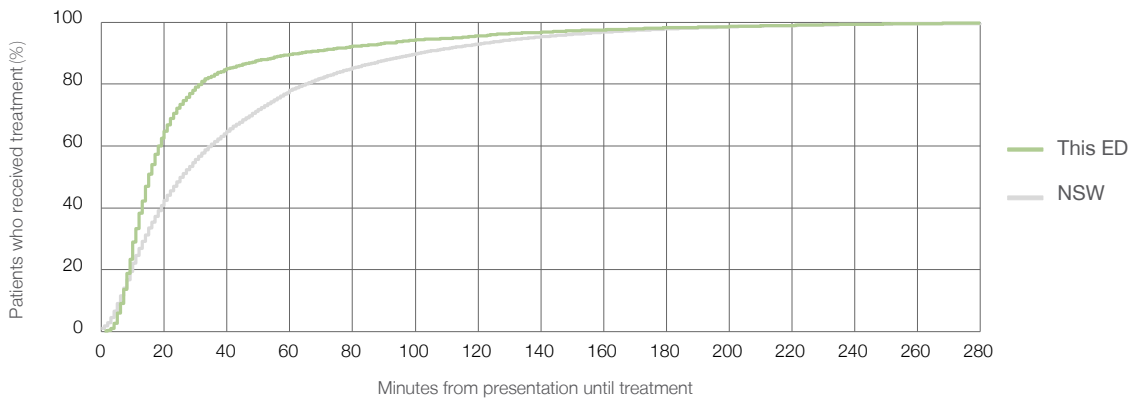
Number of triage 4 patients used to calculate waiting time:³ 3,113

Median time to start treatment⁴ 15 minutes

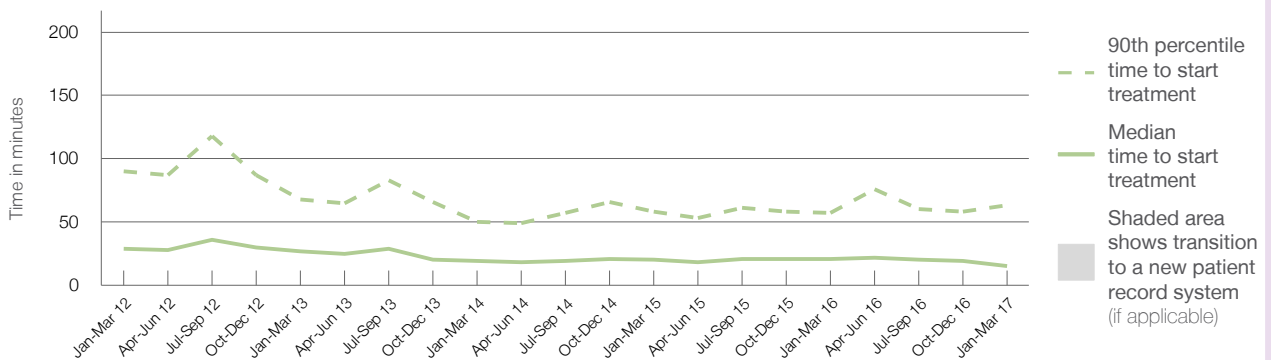
90th percentile time to start treatment⁵ 63 minutes

| | Same period last year | NSW (this period) |
|--|-----------------------|-------------------|
| Number of triage 4 patients | 3,011 | |
| Number of triage 4 patients used to calculate waiting time | 2,995 | |
| Median time to start treatment | 21 minutes | 26 minutes |
| 90th percentile time to start treatment | 57 minutes | 101 minutes |

Percentage of triage 4 patients who received treatment by time, January to March 2017



Time patients waited to start treatment (minutes) for triage 4 patients, January 2012 to March 2017^{†‡§}



| | Jan-Mar 2012 | Jan-Mar 2013 | Jan-Mar 2014 | Jan-Mar 2015 | Jan-Mar 2016 | Jan-Mar 2017 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Median time to start treatment ⁴ (minutes) | 29 | 27 | 19 | 20 | 21 | 15 |
| 90th percentile time to start treatment ⁵ (minutes) | 90 | 68 | 50 | 58 | 57 | 63 |

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Hawkesbury District Health Services: Time patients waited to start treatment, triage 5 January to March 2017

Triage 5 Non-urgent (e.g. small cuts or abrasions)

Number of triage 5 patients: 297

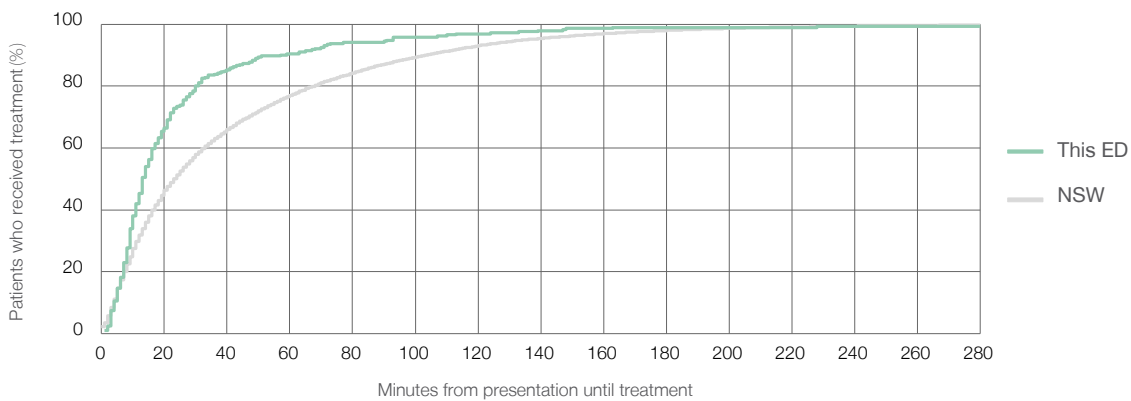
Number of triage 5 patients used to calculate waiting time:³ 291

Median time to start treatment⁴ 13 minutes

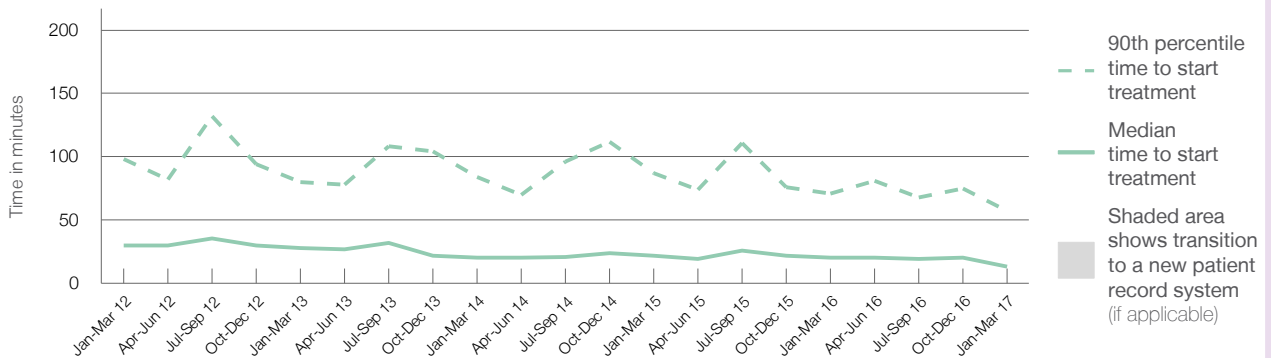
90th percentile time to start treatment⁵ 57 minutes

| Same period last year | NSW (this period) |
|-----------------------|-------------------|
| 618 | 600 |
| 20 minutes | 23 minutes |
| 71 minutes | 104 minutes |

Percentage of triage 5 patients who received treatment by time, January to March 2017



Time patients waited to start treatment (minutes) for triage 5 patients, January 2012 to March 2017^{†‡§}



| | Jan-Mar 2012 | Jan-Mar 2013 | Jan-Mar 2014 | Jan-Mar 2015 | Jan-Mar 2016 | Jan-Mar 2017 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Median time to start treatment ⁴ (minutes) | 30 | 28 | 20 | 22 | 20 | 13 |
| 90th percentile time to start treatment ⁵ (minutes) | 98 | 80 | 84 | 87 | 71 | 57 |

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Hawkesbury District Health Services: Time patients spent in the ED

January to March 2017

All presentations:¹ 6,085 patients

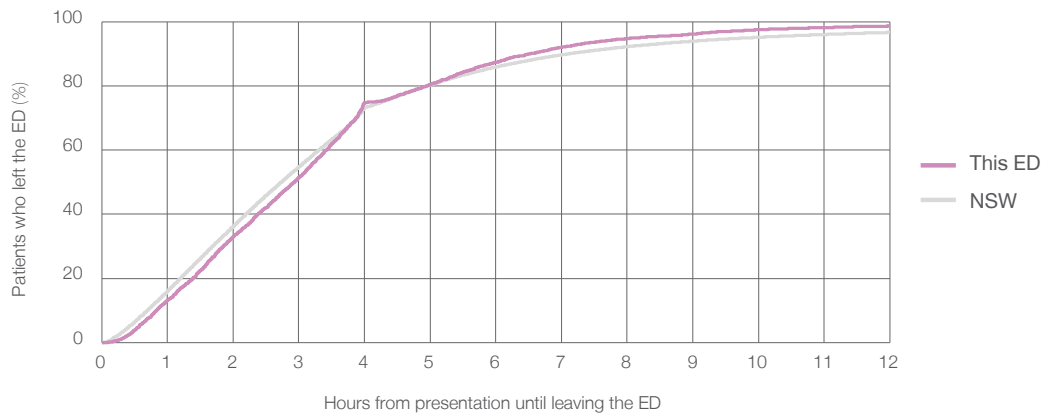
Presentations used to calculate time to leaving the ED:⁶ 6,085 patients

Median time spent in the ED⁸ 2 hours and 56 minutes

90th percentile time spent in the ED⁹ 6 hours and 32 minutes

| Same period last year | NSW (this period) |
|------------------------|------------------------|
| 6,138 | 6,138 |
| 2 hours and 36 minutes | 2 hours and 44 minutes |
| 5 hours and 41 minutes | 7 hours and 7 minutes |

Percentage of patients who left the ED by time, January to March 2017



Time patients spent in the ED, by quarter, January 2012 to March 2017^{†‡§}



| | | | | | | |
|--|--------|--------|--------|--------|--------|--------|
| Median time to leaving the ED ⁸ (hours, minutes) | 3h 53m | 3h 32m | 2h 31m | 2h 37m | 2h 36m | 2h 56m |
| 90th percentile time to leaving the ED ⁹ (hours, minutes) | 9h 19m | 8h 3m | 5h 31m | 5h 45m | 5h 41m | 6h 32m |

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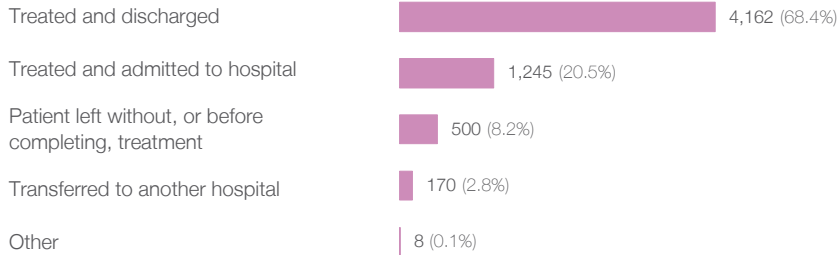
Hawkesbury District Health Services: Time patients spent in the ED

By mode of separation

January to March 2017

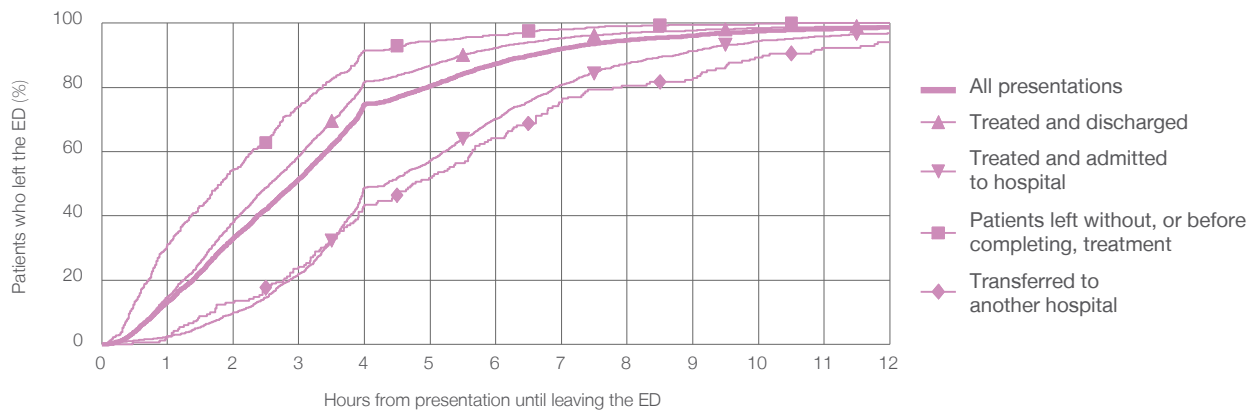
All presentations:¹ 6,085 patients

Presentations used to calculate time to leaving the ED:⁶ 6,085 patients



| Mode of separation | Same period last year | Change since one year ago |
|---|-----------------------|---------------------------|
| All presentations | 6,138 | -0.9% |
| Treated and discharged | 4,281 | -2.8% |
| Treated and admitted to hospital | 1,169 | 6.5% |
| Patient left without, or before completing, treatment | 496 | 0.8% |
| Transferred to another hospital | 182 | -6.6% |
| Other | 10 | -20.0% |

Percentage of patients who left the ED by time and mode of separation, January to March 2017^{††§}



1 hour 2 hours 3 hours 4 hours 6 hours 8 hours 10 hours 12 hours

| Mode of separation | 1 hour | 2 hours | 3 hours | 4 hours | 6 hours | 8 hours | 10 hours | 12 hours |
|---|--------|---------|---------|---------|---------|---------|----------|----------|
| Treated and discharged | 14.8% | 38.1% | 58.6% | 81.8% | 92.4% | 97.0% | 98.5% | 99.2% |
| Treated and admitted to hospital | 2.5% | 9.9% | 22.0% | 48.9% | 70.2% | 87.6% | 94.5% | 96.9% |
| Patient left without, or before completing, treatment | 31.0% | 54.4% | 74.0% | 91.6% | 96.4% | 99.2% | 99.8% | 100% |
| Transferred to another hospital | 2.4% | 12.9% | 24.1% | 43.5% | 64.1% | 80.6% | 89.4% | 94.1% |
| All presentations | 13.3% | 33.0% | 51.5% | 74.8% | 87.4% | 94.8% | 97.5% | 98.6% |

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Hawkesbury District Health Services: Time spent in the ED

Percentage of patients who spent four hours or less in the ED

January to March 2017

All presentations at the emergency department:¹ 6,085 patients

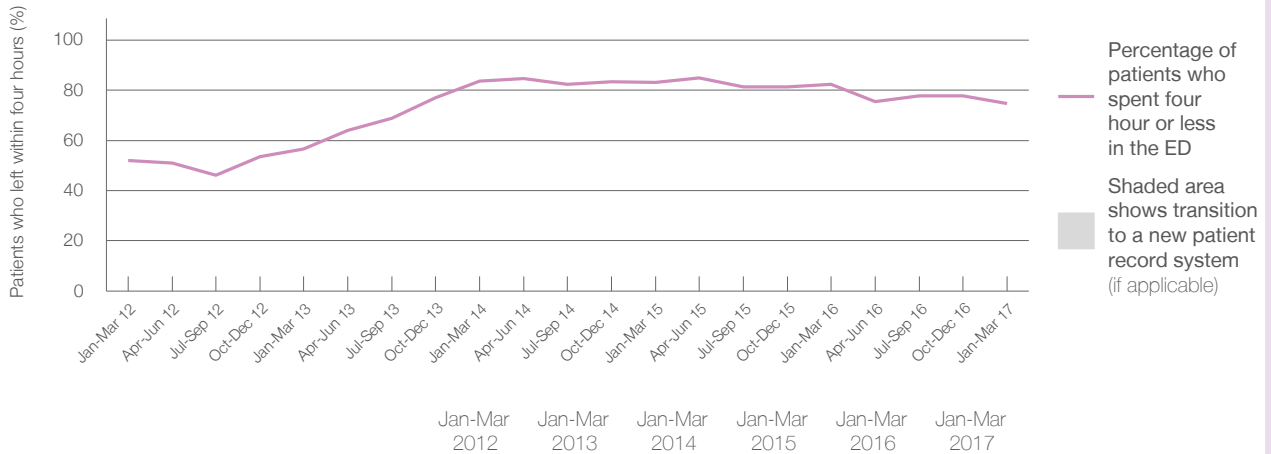
Presentations used to calculate time to leaving the ED:⁶ 6,085 patients

Percentage of patients who spent four hours or less in the ED



| | Same period last year | Change since one year ago |
|---|-----------------------|---------------------------|
| All presentations at the emergency department | 6,138 | -0.9% |
| Presentations used to calculate time to leaving the ED | 6,138 | -0.9% |
| Percentage of patients who spent four hours or less in the ED | 82.4% | |

Percentage of patients who spent four hours or less in the ED, by quarter, January 2012 to March 2017^{†‡}



| Patients who left within four hours (%) | Jan-Mar 2012 | Jan-Mar 2013 | Jan-Mar 2014 | Jan-Mar 2015 | Jan-Mar 2016 | Jan-Mar 2017 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
| | 52.0% | 56.5% | 83.7% | 83.2% | 82.4% | 74.8% |

* Suppressed due to small numbers and to protect privacy. Relevant graphs are also suppressed.

† Data points are not shown in graphs for quarters when patient numbers were too small.

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- All emergency and non-emergency presentations at the emergency department (ED).
- All presentations that have a triage category and are coded as emergency presentations or unplanned return visits.
- Some patients are excluded from ED time measures due to calculation requirements. For details, see the *Technical Supplement: Emergency department measures, July to September 2016*.
- The median is the time by which half of patients started treatment. The other half of patients took equal to or longer than this time.
- The 90th percentile is the time by which 90% of patients started treatment. The final 10% of patients took equal to or longer than this time.
- All presentations that have a departure time.
- Transfer of care time refers to the period between arrival of patients at the ED by ambulance and the transfer of responsibility for their care from paramedics to ED staff in an ED treatment zone. For more information see *Spotlight on Measurement: measuring transfer of care from the ambulance to the emergency department*.
- The median is the time by which half of patients left the ED. The other half of patients took equal to or longer than this time.
- The 90th percentile is the time by which 90% of patients left the ED. The final 10% of patients took equal to or longer than this time.

Note: Presentation time is the earlier of times recorded for the start of clerical registration or the triage process. Treatment time is the earliest time recorded when a healthcare professional provides medical care that is relevant to the patient's presenting problems. 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.

Note: All percentages are rounded and therefore percentages may not add to 100%.

Sources: ED data from Health Information Exchange, NSW Health (extracted 18 April 2017).
Transfer of care data from Transfer of Care Reporting System (extracted 18 April 2017).