



TARN

THE TRAUMA AUDIT & RESEARCH NETWORK

Sussex Trauma Network

CLINICAL REPORT ISSUE II - AUGUST 2019

I: CORE MEASURES FOR ALL PATIENTS

II: ORTHOPAEDIC INJURIES

Created on 02/09/2019

EXECUTIVE SUMMARY

01 April 2018 to 31 March 2019 core measures

Improvements are shown in **GREEN**, no change in **AMBER** and deteriorations in **RED**. These are the areas you may want to review.

Data quality and rate of survival

Case Ascertainment is 91.8 - 99.4% (average 96%), this is **above** the target of 80%. This represents **an increase of 16%** compared to previous year.

Data Accreditation is 90.0%, this is **below** the target of 95%. This represents **no change** compared to previous year.

The excess rate of survival is better than expected
Ws is 0.93. 95% confidence intervals are **0.18 to 1.68**

The survivor /death ratio is 1.47
The data in this report should be viewed with **caution** (see data reliability index)

n.b. Both Ws and survivor / death ratio are based on a 2 year period

Meets target

Compared to previous year



CORE section

Compared to TARN average

Compared to previous year

6% of ISS > 15 patients were seen by a Consultant within 5 minutes of arrival, this is **below** the TARN average of 40.1% and has **remained at the same level** compared to previous year.



25% of NICE criteria patients had a CT within 60 minutes, this is **below** the TARN average of 80% and has **decreased by 34%** compared to previous year.
75% of the patients that had a CT within 60 minutes arrived between the hours of 08:00 - 20:00.



7 days median length of stay for ISS > 15 patients, this is **within 1 day of** the TARN average of 8 days. This represents **a decrease of 2 days** compared to previous year.



Rehabilitation prescription was completed for **48%** of patients with ISS >8, this is **below** the TARN average of 67%. This has **remained at the same level** compared to previous year.



THEMED section: Patients with orthopaedic injuries

22% of BOAST4 patients received Surgical Stabilisation within the target of 24 hours, this is **below** the national average of 38%. This represents **a decrease of 28%** compared to previous year.



22% of BOAST4 patients received Soft Tissue Coverage within the target of 72 hours, this is **below** the national average of 28%. This represents **a decrease of 11%** compared to previous year.



BEST PRACTICE SPOTLIGHT

As agreed by the TARN Audit Committee, the Best Practice Spotlight is changing.

In advance of future reports TARN will approach Trusts or Networks who have shown significant improvement or who are consistently good in key areas, asking them to share information on how they have changed or improved things in this area.

Your Trust or Network may be contacted by TARN and asked to contribute to this feature for future reports.

Contents

This Report contains the following sections:

1. **CORE** - includes ALL injured patients admitted in the time frames indicated.
2. **Orthopaedic** - includes patients with severe pelvic injuries, open fractures and BOAST 4 eligible injuries.

Highlighted sections include only patient data submitted from Trauma Units, so that the information provided is not overshadowed by data from the MTC.

Core

- 1 - Data completeness & accreditation of patient data submission
- 2 - Case mix standardised rate of survival for this network
 - Breakdown
 - Charts
- 3 - Age & Injury mechanism
- 4 - ISS & injury mechanism
- 5 - Distribution of patients by ISS & transfer status
- 6 - Number and transfer of patients with head injuries (AIS 3+)
- 7 - Number and transfer of patients with severe head injuries (AIS 3+ head injury and a GCS < 9 or the patient is intubated)
- 8 - Pre-hospital care of patients admitted to Trauma Units
- 9 - Number of patients with a GCS < 9 (pre-hospital or in the ED) and definitive airway management in Trauma Units
- 10 - Most senior doctor attending patients within 5 minutes of arrival in Trauma Units
- 11 - Most senior doctor attending patients within 30 minutes of arrival in Trauma Units
- 12 - Most senior doctor attending patients in the emergency department of Trauma Units
- 13 - Time to CT scanning in Trauma Units
- 14 - Time to first operation in Trauma Units
- 15 - Length of stay in hospital
- 16 - Length of stay in, and readmissions to, critical care
- 17 - Patients receiving tranexamic acid
- 18 - NICE quality standards

Orthopaedic

- 1 - Patients with BOAST 4 eligible injuries, stabilisation and cover
- 2 - Patients with BOAST 4 eligible injuries, grade of surgeon
- 3 - Patients with severe (AIS 4+) pelvic fractures
- 4 - Patients with open limb fractures

Some sections may not appear if there is insufficient data

Glossary

Explanation of acronyms, abbreviations and other key terms used in this report.

AIS	Abbreviated Injury Scale score. A value between 1 (minor) and 6 (very severe) can be assigned to each injury. TARN currently uses the AIS 2005 system, the most recent available.
BOAST 4	British Orthopaedic Association Standard 4, setting out key markers for care of patients with high energy open lower limb fractures.
Confidence interval	Indicates the precision and possible range of a result. A wide confidence interval indicates the potential for large variation from the measured value because of small sample size. The larger the sample, the smaller the confidence intervals. The smaller the confidence intervals, the more precise the measured value.
Direct admissions	Describes care in the first treating hospital.
ED	Emergency Department.
GCS	Glasgow Coma Scale. A measure of consciousness ranging from 3, indicating complete unconsciousness, to 15, indicating a state of normal alertness. GCS is composed of eye, verbal and motor scores.
HES / HIPE / PEDW	Hospital Episode Statistics / Hospital In-Patient Enquiry Scheme / Patient Episode Database Wales. Data collected in hospitals on all admissions. This data is used by TARN to produce an expected number of TARN eligible patients.
Interquartile range	Range of values within a selection of data excluding the top 25% and bottom 25%. This filters out unusually high and unusually low values and shows where the most significant values in the data range are concentrated.
Intubation	The insertion of a flexible plastic tube into the trachea to support a patient's airway.
ISS	Injury Severity Score. A score ranging from 1, indicating minor injuries to 75, indicating very severe injuries that are very likely to result in death. An ISS between 9 and 15 is considered moderate. An ISS of 16 or more is considered severe. ISS is calculated using the Abbreviated Injury Scale (AIS).
Median	The middle value in a range. Less easily distorted by very high or very low values than other aggregation methods, such as the mean.
NICE	National Institute for Health and Care Excellence. This organisation sets standards for patient care including for severe head injury, defined here as patients with any head injury and a Glasgow Coma Score (GCS) of less than 13.
Paediatric	Patients under 16 years of age at time of admission.
RTC	Road traffic collision.
STR	Specialist Trainee.
TARN fraction	The proportion of TARN patients in each PS band. Used as a weight to standardise hospital outcome performance according to case mix.
Thoracotomy	A surgical incision made into the pleural space of the chest.
W	Variable showing hospital outcome performance. W represents excess deaths or survivors per 100 patients. This is calculated using observed and expected survivors and the total number of patients in the hospital's rate of survival dataset. See rate of survival breakdown section of report for full formula.
Ws	Excess deaths or survivors (W) standardised according to hospital case mix using the TARN fraction. A hospital with the same case mix as the overall TARN population will have identical W and Ws values. A hospital whose case mix differs from the overall TARN population will have different W and Ws values.

Confidence interval Confidence interval is a range of values that is more likely than not to contain the true value. A 90% confidence interval is a range of values that is expected to contain the true value 90% of the time. A 95% confidence interval is a range of values that is expected to contain the true value 95% of the time. A 99% confidence interval is a range of values that is expected to contain the true value 99% of the time.

Sample size Sample size is the number of observations included in a sample. A larger sample size generally leads to more precise estimates of the true value. A sample size of 60-80% of the total population is generally considered to be a good size for most studies. A sample size of 100% of the total population is generally considered to be a good size for most studies.

Expected survival Expected survival is data completely or less than 60% of the total population. A hospital with the same case mix as the overall TARN population will have identical W and Ws values. A hospital whose case mix differs from the overall TARN population will have different W and Ws values.



TARN

THE TRAUMA AUDIT & RESEARCH NETWORK

Sussex Trauma Network

SECTION I

CORE MEASURES FOR ALL PATIENTS



Case Ascertainment & Accreditation

If case ascertainment is low then the analysis in the rest of the report may not be reflective of true practice.

Trust / Hospital	01 April 2018 to 31 March 2019				01 April 2017 to 31 March 2018			
	N	E	C (%)	A (%)	N	E	C (%)	A (%)
Brighton and Sussex University Hospitals NHS Trust	1098	1236 - 1354	81.1 - 88.8	93.8	936	1236 - 1354	69.1 - 75.7	91.5
Princess Royal Haywards Heath	118	221	53.5	93	99	221	44.9	92.2
Royal Sussex County Hospital	980	849	100+	94	837	849	98.6	91.4
East Sussex Healthcare NHS Trust	623	439 - 522	100+	89.7	510	439 - 522	97.7 - 100+	90.6
Conquest Hospital	430	324 - 385	100+	90	377	324 - 385	97.9 - 100+	91.6
Eastbourne District General Hospital	193	115 - 137	100+	88	133	115 - 137	97.1 - 100+	87.9
Western Sussex Hospitals NHS Trust	567	626 - 734	77.2 - 90.6	83.0	457	626 - 734	62.3 - 73	81.9
St. Richards Hospital	262	297 - 353	74.2 - 88.2	83	225	297 - 353	63.7 - 75.7	86.5
Worthing Hospital	305	329 - 381	80.1 - 92.8	83	232	329 - 381	60.9 - 70.6	77.3

N The number of approved submissions for the period

E The expected number of submissions for the period (from HES / HIPE / PEDW)

C The case ascertainment % for the period

A The accreditation % for the period

HES / HIPE / PEDW

Hospital Episode Statistics / Hospital In-Patient Enquiry Scheme / Patient Episode Database Wales is the data collected in hospitals on all admissions. The TARN inclusion criteria is applied to this data to derive the expected number of cases for each site. Work with TARN participating sites has shown there is some over-estimation of cases in the results due to the variation in ICD10 coding.

The HES data used for the case ascertainment calculation is the same as the previous report. A notice will be added to the TARN website when the new HES data has been received.

Case ascertainment

This is displayed as a percentage range and represents the number of patients submitted to TARN compared to the number of patients expected based on the HES dataset. The range represents the variance seen in the accuracy of the HES data. A single value is shown for hospitals that have provided feedback to TARN about their denominator.

Accreditation

This is the proportion of key fields used in this report that are filled in for each patient submitted to TARN.

Sussex Trauma Network

Data reliability index - 01 April 2018 to 31 March 2019

Site	n	Case ascertainment	Survivor:Death ratio
Conquest Hospital	430	100+	1.84
Eastbourne District General Hospital	193	100+	2.34
Princess Royal Haywards Heath	118	53.5	5.56
Royal Sussex County Hospital	980	100+	1.00
St. Richards Hospital	262	74.2 - 88.2	1.71
Worthing Hospital	305	80.1 - 92.8	2.91

OverallCase ascertainment: **91.8 - 99.4 (average 96)**Survivor / death ratio: **1.47**

The data in this report should be viewed with **caution**.

Data reliability

Data reliability is measured using case ascertainment (if this is a range, the average of the two figures is used) and the survivor / death ratio for the report period. Survivor / death ratio is calculated as follows:

$$\frac{\text{survivors submitted} \div \text{expected number of survivors (HES)}}{\text{deaths submitted} \div \text{expected number of deaths (HES)}}$$

This ratio should be as close to 1 as possible. If it is above 1 it means proportionally more survivors are being submitted than deaths and if it is below 1 then proportionally more deaths are being submitted than survivors.

Data confidence levels

Confidence: Case ascertainment **80+** and; survivor / death ratio between **0.8** and **1.2**

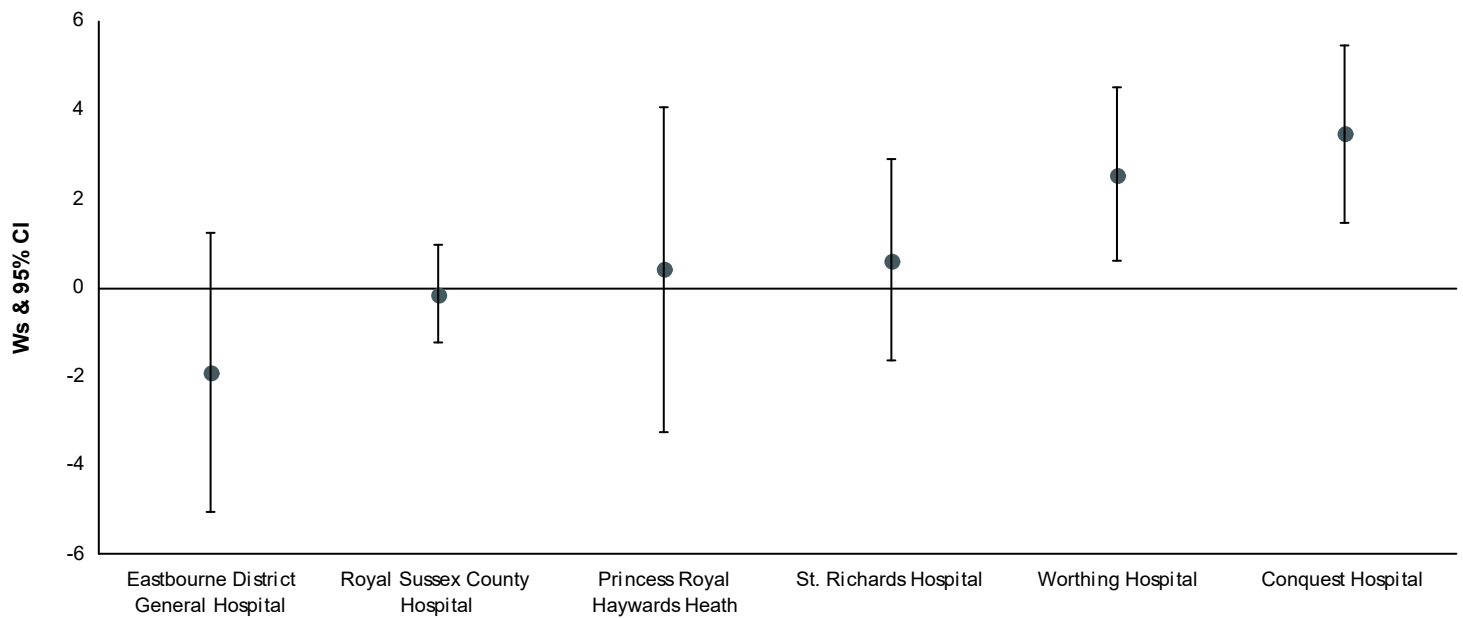
Caution: Case ascertainment **80+** and; survivor / death ratio **< 0.8** or **> 1.2**

Extreme caution: Case ascertainment **< 80**

Sussex Trauma Network

Case mix standardised excess rate of survival - Ws
01 April 2017 to 31 March 2019

Site	n	WS	95% Confidence interval
Conquest Hospital	733	3.47	1.48 to 5.46
Eastbourne District General Hospital	181	-1.88	-5.02 to 1.25
Princess Royal Haywards Heath	111	0.42	-3.24 to 4.08
Royal Sussex County Hospital	1527	-0.13	-1.24 to 0.99
St. Richards Hospital	464	0.62	-1.64 to 2.88
Worthing Hospital	505	2.56	0.63 to 4.49



Sussex Trauma Network

Case mix standardised excess rate of survival (Ws) & Ws Breakdown 01 April 2017 to 31 March 2019

Patients who died at or were discharged from this hospital are eligible for Ws calculations. Patients who were transferred out from this hospital and not re-admitted are excluded.

See the appendix for a detailed explanation of the Ps19 model.

Outcome at 30 days or discharge

PS Band	Number in band	Observed Survivors	Expected Survivors	Difference*	TARN fraction	Ws	95% confidence interval
95 - 100	2239	2206	2200.65	0.24	0.67	0.16	
90 - 95	649	609	603.42	0.86	0.16	0.13	
80 - 90	368	334	318.15	4.31	0.08	0.36	
65 - 80	156	118	115.71	1.47	0.04	0.06	
45 - 65	58	35	32.98	3.48	0.02	0.08	
25 - 45	31	13	11.42	5.09	0.02	0.08	
0 - 25	19	3	2.18	4.33	0.01	0.06	
Total	3521	3319	3284.52			0.93	0.18 to 1.68

Outcome at 30 days via ONS data linkage

PS Band	Number in band*	Observed Survivors	Expected Survivors	Difference*	TARN fraction	Ws	95% confidence interval
95 - 100	2033	2006	1997.23	0.43	0.65	0.28	
90 - 95	689	655	639.31	2.28	0.15	0.33	
80 - 90	466	428	402.61	5.45	0.10	0.55	
65 - 80	213	170	158.60	5.35	0.05	0.26	
45 - 65	72	45	40.60	6.10	0.02	0.15	
25 - 45	29	13	10.55	8.46	0.02	0.14	
0 - 25	20	3	2.46	2.72	0.01	0.04	
Total	3522	3320	3251.35			1.75	0.98 to 2.52

*The number of cases may be reduced due to missing NHS numbers preventing ONS linkage

$$* \text{ Difference (W)} = \frac{\text{Observed} - \text{Expected}}{\text{Number of patients}} \times 100$$

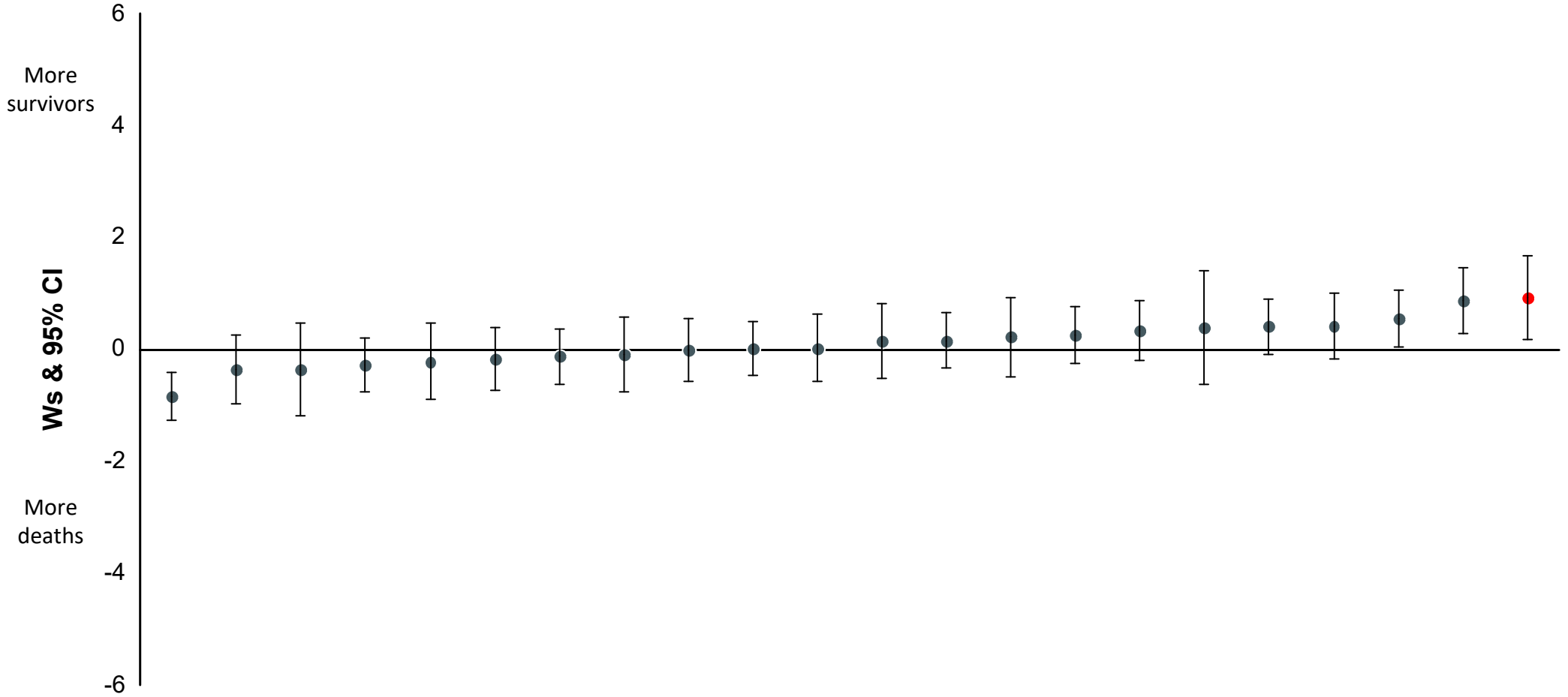
See glossary for further details of the variables included in the PS model.

Sussex Trauma Network

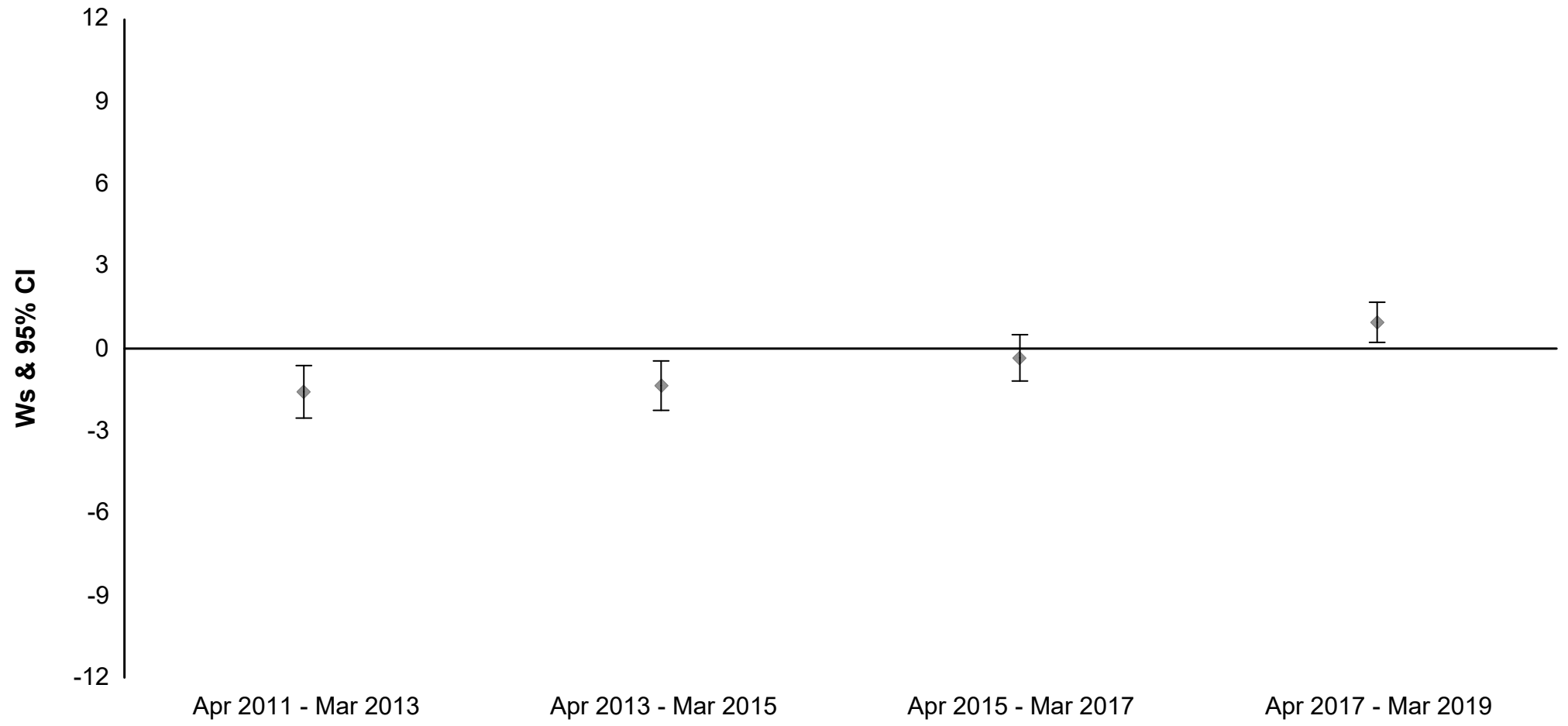
Trauma Network Comparative Outcome Analysis - 01 April 2017 to 31 March 2019

Outcome at 30 days or discharge

Sussex Trauma Network is highlighted



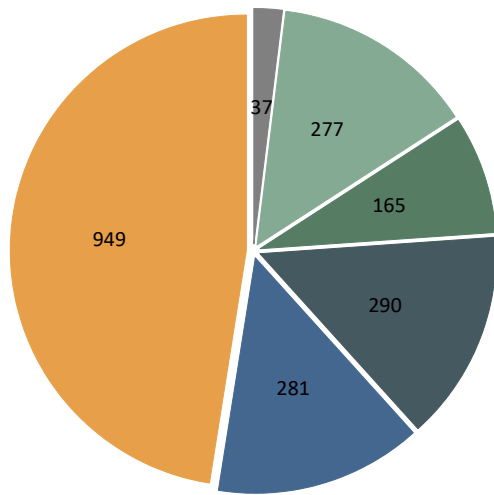
Sussex Trauma Network
Rolling Outcome Analysis
Outcome at 30 days or discharge



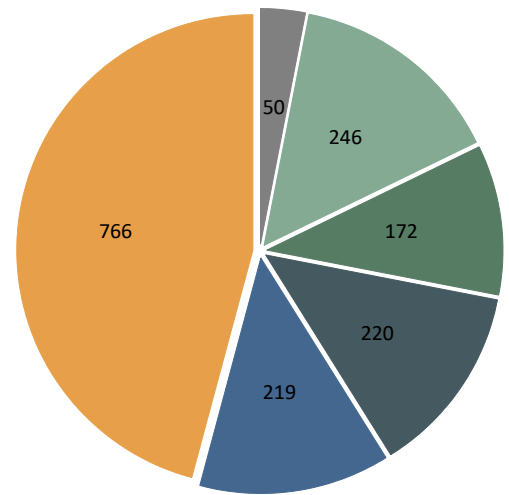
Sussex Trauma Network Age & Injury Mechanism (row percentages)

Mechanism	Under 16	16 to 44	45 to 54	55 to 64	65 to 74	75 and over	Total
01 April 2018 to 31 March 2019							
RTC	11 (3.5%)	125 (40.1%)	45 (14.4%)	38 (12.2%)	40 (12.8%)	53 (17.0%)	312
Fall < 2m	18 (1.3%)	54 (3.9%)	76 (5.4%)	202 (14.4%)	207 (14.8%)	844 (60.2%)	1401
Fall > 2m	1 (0.5%)	49 (25.5%)	26 (13.5%)	39 (20.3%)	30 (15.6%)	47 (24.5%)	192
Shooting / Stabbing	0 (0.0%)	13 (68.4%)	3 (15.8%)	1 (5.3%)	1 (5.3%)	1 (5.3%)	19
Other	7 (9.3%)	36 (48.0%)	15 (20.0%)	10 (13.3%)	3 (4.0%)	4 (5.3%)	75
Total	37 (1.9%)	277 (13.9%)	165 (8.3%)	290 (14.5%)	281 (14.1%)	949 (47.5%)	1999
TARN average	4.2%	23.5%	8.8%	12.4%	10.8%	40.2%	

01 April 2017 to 31 March 2018							
RTC	12 (3.9%)	115 (37.3%)	60 (19.5%)	46 (14.9%)	35 (11.4%)	40 (13.0%)	308
Fall < 2m	26 (2.4%)	38 (3.5%)	63 (5.8%)	129 (11.9%)	145 (13.3%)	686 (63.1%)	1087
Fall > 2m	7 (3.8%)	45 (24.6%)	27 (14.8%)	31 (16.9%)	35 (19.1%)	38 (20.8%)	183
Shooting / Stabbing	0 (0.0%)	20 (74.1%)	4 (14.8%)	2 (7.4%)	1 (3.7%)	0 (0.0%)	27
Other	5 (7.4%)	28 (41.2%)	18 (26.5%)	12 (17.6%)	3 (4.4%)	2 (2.9%)	68
Total	50 (3.0%)	246 (14.7%)	172 (10.3%)	220 (13.2%)	219 (13.1%)	766 (45.8%)	1673
TARN average	4.2%	23.6%	9.6%	11.4%	11.2%	39.9%	



01 April 2018 to 31 March 2019



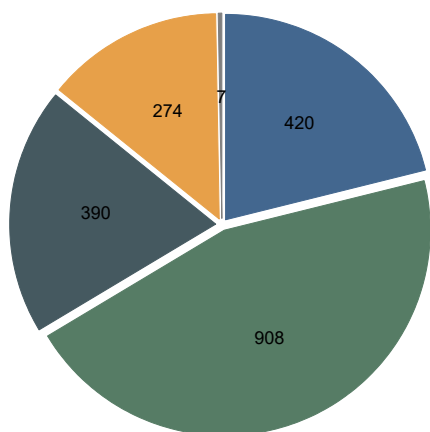
01 April 2017 to 31 March 2018

Under 16
 16 to 44
 45 to 54
 55 to 64
 65 to 74
 75 and over

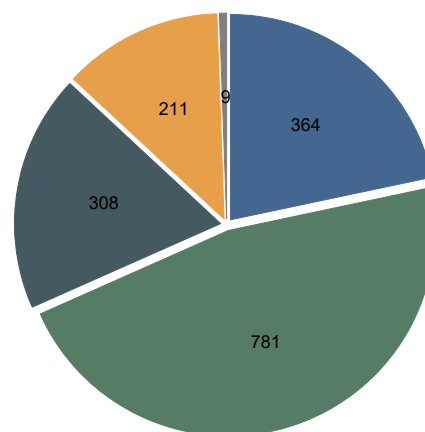
Sussex Trauma Network ISS & Injury Mechanism (row percentages)

Mechanism	1 - 8	9 - 15	16 - 24	25 - 45	>45	Total	>15
01 April 2018 to 31 March 2019							
RTC	47 (15.1%)	131 (42.0%)	67 (21.5%)	63 (20.2%)	4 (1.3%)	312	134 (42.9%)
Fall < 2m	321 (22.9%)	674 (48.1%)	252 (18.0%)	154 (11.0%)	0 (0.0%)	1401	406 (29.0%)
Fall > 2m	43 (22.4%)	60 (31.3%)	49 (25.5%)	37 (19.3%)	3 (1.6%)	192	89 (46.4%)
Shooting / Stabbing	0 (0.0%)	11 (57.9%)	6 (31.6%)	2 (10.5%)	0 (0.0%)	19	8 (42.1%)
Other	9 (12.0%)	32 (42.7%)	16 (21.3%)	18 (24.0%)	0 (0.0%)	75	34 (45.3%)
Total	420 (21.0%)	908 (45.4%)	390 (19.5%)	274 (13.7%)	7 (0.4%)	1999	671 (33.6%)
TARN average	16.3%	44.1%	19.8%	19.2%	0.6%		39.7%

01 April 2017 to 31 March 2018							
RTC	60 (19.5%)	121 (39.3%)	64 (20.8%)	56 (18.2%)	7 (2.3%)	308	127 (41.2%)
Fall < 2m	248 (22.8%)	563 (51.8%)	175 (16.1%)	101 (9.3%)	0 (0.0%)	1087	276 (25.4%)
Fall > 2m	44 (24.0%)	59 (32.2%)	44 (24.0%)	34 (18.6%)	2 (1.1%)	183	80 (43.7%)
Shooting / Stabbing	5 (18.5%)	14 (51.9%)	5 (18.5%)	3 (11.1%)	0 (0.0%)	27	8 (29.6%)
Other	7 (10.3%)	24 (35.3%)	20 (29.4%)	17 (25.0%)	0 (0.0%)	68	37 (54.4%)
Total	364 (21.8%)	781 (46.7%)	308 (18.4%)	211 (12.6%)	9 (0.5%)	1673	528 (31.6%)
TARN average	16.8%	45.9%	17.7%	19%	0.7%		37.3%



01 April 2018 to 31 March 2019



01 April 2017 to 31 March 2018

■ 1 - 8 ■ 9 - 15 ■ 16 - 24 ■ 25 - 45 ■ >45

Sussex Trauma Network Distribution of patients by transfer status

01 April 2018 to 31 March 2019

Hospital	All patients				ISS > 15 patients			
	n	No transfer	Transfer In	Transfer Out	n	No transfer	Transfer In	Transfer Out
Conquest Hospital	430	289 (67.2%)	82 (19.1%)	59 (13.7%)	119	56 (47.1%)	29 (24.4%)	34 (28.6%)
Eastbourne District General Hospital	193	98 (50.8%)	13 (6.7%)	82 (42.5%)	77	36 (46.8%)	10 (13.0%)	31 (40.3%)
Princess Royal Haywards Heath	118	31 (26.3%)	25 (21.2%)	62 (52.5%)	34	8 (23.5%)	5 (14.7%)	21 (61.8%)
Royal Sussex County Hospital	980	686 (70.0%)	196 (20.0%)	98 (10.0%)	421	280 (66.5%)	89 (21.1%)	52 (12.4%)
St. Richards Hospital	262	229 (87.4%)	15 (5.7%)	18 (6.9%)	73	57 (78.1%)	8 (11.0%)	8 (11.0%)
Worthing Hospital	305	264 (86.6%)	13 (4.3%)	28 (9.2%)	73	54 (74.0%)	4 (5.5%)	15 (20.5%)
Total	2288	1597 (69.8%)	344 (15.0%)	347 (15.2%)	797	491 (61.6%)	145 (18.2%)	161 (20.2%)

01 April 2017 to 31 March 2018

Hospital	All patients				ISS > 15 patients			
	n	No transfer	Transfer In	Transfer Out	n	No transfer	Transfer In	Transfer Out
Conquest Hospital	377	254 (67.4%)	83 (22.0%)	40 (10.6%)	98	49 (50.0%)	33 (33.7%)	16 (16.3%)
Eastbourne District General Hospital	133	55 (41.4%)	4 (3.0%)	74 (55.6%)	45	18 (40.0%)	1 (2.2%)	26 (57.8%)
Princess Royal Haywards Heath	99	24 (24.2%)	28 (28.3%)	47 (47.5%)	21	4 (19.0%)	2 (9.5%)	15 (71.4%)
Royal Sussex County Hospital	837	584 (69.8%)	155 (18.5%)	98 (11.7%)	321	236 (73.5%)	43 (13.4%)	42 (13.1%)
St. Richards Hospital	225	210 (93.3%)	4 (1.8%)	11 (4.9%)	64	53 (82.8%)	4 (6.3%)	7 (10.9%)
Worthing Hospital	232	212 (91.4%)	8 (3.4%)	12 (5.2%)	57	49 (86.0%)	6 (10.5%)	2 (3.5%)
Total	1903	1339 (70.4%)	282 (14.8%)	282 (14.8%)	606	409 (67.5%)	89 (14.7%)	108 (17.8%)

Sussex Trauma Network Distribution of patients by ISS

01 April 2018 to 31 March 2019

Hospital	1 - 8	9 - 15	16 - 24	25 - 45	>45	Total	>15
Conquest Hospital	70 (16.3%)	241 (56.0%)	68 (15.8%)	49 (11.4%)	2 (0.5%)	430	119 (27.7%)
Eastbourne District General Hospital	45 (23.3%)	71 (36.8%)	51 (26.4%)	26 (13.5%)	0 (0.0%)	193	77 (39.9%)
Princess Royal Haywards Heath	20 (16.9%)	64 (54.2%)	23 (19.5%)	10 (8.5%)	1 (0.8%)	118	34 (28.8%)
Royal Sussex County Hospital	160 (16.3%)	399 (40.7%)	214 (21.8%)	200 (20.4%)	7 (0.7%)	980	421 (43.0%)
St. Richards Hospital	67 (25.6%)	122 (46.6%)	47 (17.9%)	26 (9.9%)	0 (0.0%)	262	73 (27.9%)
Worthing Hospital	85 (27.9%)	147 (48.2%)	43 (14.1%)	30 (9.8%)	0 (0.0%)	305	73 (23.9%)
Total	447 (19.5%)	1044 (45.6%)	446 (19.5%)	341 (14.9%)	10 (0.4%)	2288	797 (34.8%)

01 April 2017 to 31 March 2018

Hospital	1 - 8	9 - 15	16 - 24	25 - 45	>45	Total	>15
Conquest Hospital	71 (18.8%)	208 (55.2%)	64 (17.0%)	33 (8.8%)	1 (0.3%)	377	98 (26.0%)
Eastbourne District General Hospital	33 (24.8%)	55 (41.4%)	29 (21.8%)	16 (12.0%)	0 (0.0%)	133	45 (33.8%)
Princess Royal Haywards Heath	22 (22.2%)	56 (56.6%)	13 (13.1%)	8 (8.1%)	0 (0.0%)	99	21 (21.2%)
Royal Sussex County Hospital	173 (20.7%)	343 (41.0%)	165 (19.7%)	147 (17.6%)	9 (1.1%)	837	321 (38.4%)
St. Richards Hospital	53 (23.6%)	108 (48.0%)	45 (20.0%)	19 (8.4%)	0 (0.0%)	225	64 (28.4%)
Worthing Hospital	55 (23.7%)	120 (51.7%)	35 (15.1%)	20 (8.6%)	2 (0.9%)	232	57 (24.6%)
Total	407 (21.4%)	890 (46.8%)	351 (18.4%)	243 (12.8%)	12 (0.6%)	1903	606 (31.8%)

Sussex Trauma Network

Patients with head injuries

Defined as patients with an AIS3+ head injury.

01 April 2018 to 31 March 2019

Hospital	n	Direct admissions from scene of incident			Transferred in
		No transfer	Died within 12 hours of arrival	Transferred out	
Conquest Hospital	104	47	0	29	28
Eastbourne District General Hospital	82	43	0	31	8
Princess Royal Haywards Heath	27	12	0	11	4
Royal Sussex County Hospital	287	194	3	27	66
St. Richards Hospital	58	53	0	4	1
Worthing Hospital	74	59	0	13	2

01 April 2017 to 31 March 2018

Hospital	n	Direct admissions from scene of incident			Transferred in
		No transfer	Died within 12 hours of arrival	Transferred out	
Conquest Hospital	71	39	0	11	21
Eastbourne District General Hospital	43	22	0	21	0
Princess Royal Haywards Heath	16	5	0	9	2
Royal Sussex County Hospital	222	174	3	18	30
St. Richards Hospital	49	45	0	4	0
Worthing Hospital	51	44	0	2	5

Sussex Trauma Network

Patients with severe head injuries

Defined as patients with an AIS3+ head injury and a GCS < 9 or a recording of intubation.

01 April 2018 to 31 March 2019

Hospital	n	Direct admissions from scene of incident			Transferred in
		No transfer	Died within 12 hours of arrival	Transferred out	
Conquest Hospital	9	1	0	4	4
Princess Royal Haywards Heath	1	0	0	0	1
Royal Sussex County Hospital	53	37	3	9	7
St. Richards Hospital	1	1	0	0	0
Worthing Hospital	2	1	0	1	0

01 April 2017 to 31 March 2018

Hospital	n	Direct admissions from scene of incident			Transferred in
		No transfer	Died within 12 hours of arrival	Transferred out	
Conquest Hospital	1	1	0	0	0
Eastbourne District General Hospital	2	2	0	0	0
Princess Royal Haywards Heath	1	0	0	0	1
Royal Sussex County Hospital	48	40	3	7	1
St. Richards Hospital	2	1	0	1	0
Worthing Hospital	5	3	0	0	2

Sussex Trauma Network

Pre-hospital care

Figures in blue represent the TARN average

Trauma Unit data only

Direct admissions, 01 April 2018 to 31 March 2019

Number of patients: 1160

Number of patients with pre-hospital data: 800

Level of personnel on scene

Doctor	Paramedic	Not recorded
0 (0.0%)	797 (99.6%)	3 (0.4%)
3.9%	93.8%	2.3%

Mode of transport to hospital

Ambulance	Helicopter	Self-presented	Not recorded*
947 (81.6%)	1 (0.1%)	212 (18.3%)	0 (0.0%)
79.5%	2.3%	18.2%	0.0%

Direct admissions, 01 April 2017 to 31 March 2018

Number of patients: 939

Number of patients with pre-hospital data: 689

Level of personnel on scene

Doctor	Paramedic	Not recorded
1 (0.1%)	682 (99.0%)	6 (0.9%)
4.1%	92.4%	3.5%

Mode of transport to hospital

Ambulance	Helicopter	Self-presented	Not recorded*
777 (82.7%)	3 (0.3%)	159 (16.9%)	0 (0.0%)
80.0%	2.4%	17.5%	0.0%

*Mode of transport not recorded may include patients that self-presented.

Patients with GCS < 9 pre-hospital or in the ED and definitive airway management pre-hospital or in the ED

Trauma Unit data only

n	Definitive airway management	Pre-hospital	ED	Date & time recorded	Recorded within 30 mins of incident	Median time from incident (hours)
Direct admissions, 01 April 2018 to 31 March 2019						
7	2 (28.6%)	2 (28.6%)	0 (0.0%)	1 (50.0%)	0 (0.0%)	
	62.6%	18.5%	44.1%	80.5%	0.5%	1.45
Direct admissions, 01 April 2017 to 31 March 2018						
9	0 (0.0%)	0 (0.0%)	0 (0.0%)		0 (0.0%)	
	64.2%	18.6%	45.6%	74.4%	0.5%	1.42

Definitive airway management is defined as the management of an airway using intubation, tracheostomy or cricothyroidotomy.

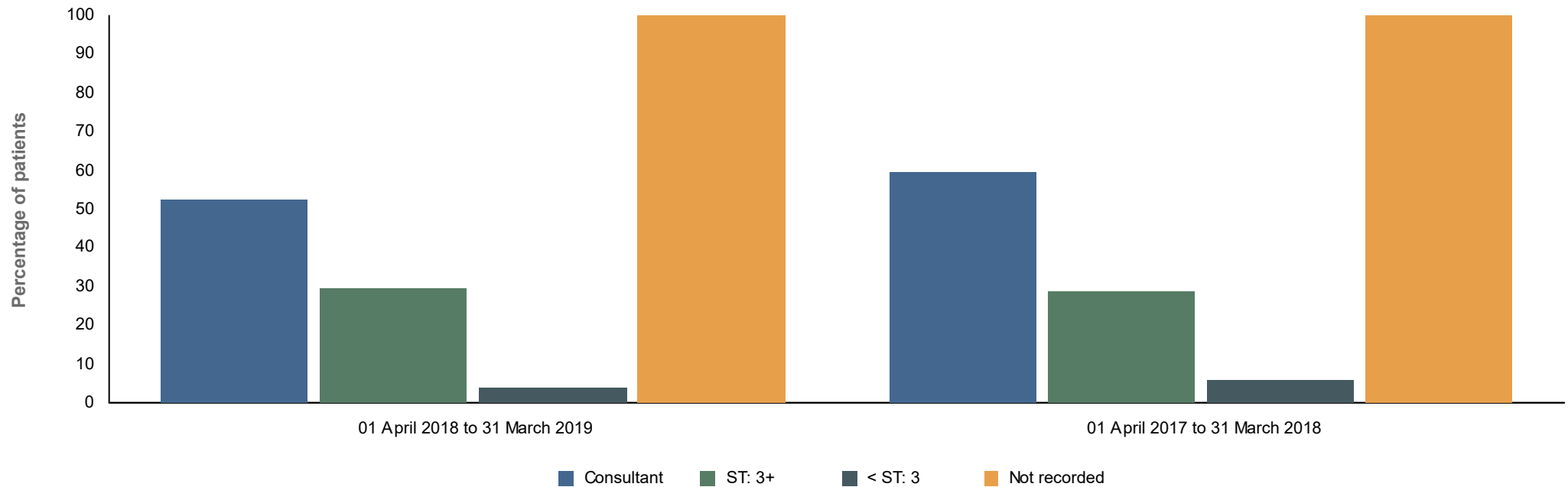
Sussex Trauma Network

Most senior doctor seeing patients within 5 minutes of arrival

All patients directly admitted, all specialities

Trauma Unit data only

Category	Total	Consultant	TARN average consultant	ST: 3+	< ST: 3	Not recorded
01 April 2018 to 31 March 2019						
All patients	1160	46 (4.0%)	25.9%	33 (2.8%)	8 (0.7%)	1073 (92.5%)
ISS > 15 patients	320	19 (5.9%)	40.1%	13 (4.1%)	1 (0.3%)	287 (89.7%)
Trauma team activated	85	35 (41.2%)	76.8%	18 (21.2%)	2 (2.4%)	30 (35.3%)
Trauma team not activated	1075	11 (1.0%)	8%	15 (1.4%)	6 (0.6%)	1043 (97.0%)
01 April 2017 to 31 March 2018						
All patients	939	50 (5.3%)	24.7%	37 (3.9%)	13 (1.4%)	839 (89.4%)
ISS > 15 patients	239	15 (6.3%)	39%	11 (4.6%)	2 (0.8%)	211 (88.3%)
Trauma team activated	80	37 (46.3%)	74.7%	14 (17.5%)	2 (2.5%)	27 (33.8%)
Trauma team not activated	859	13 (1.5%)	7.8%	23 (2.7%)	11 (1.3%)	812 (94.5%)



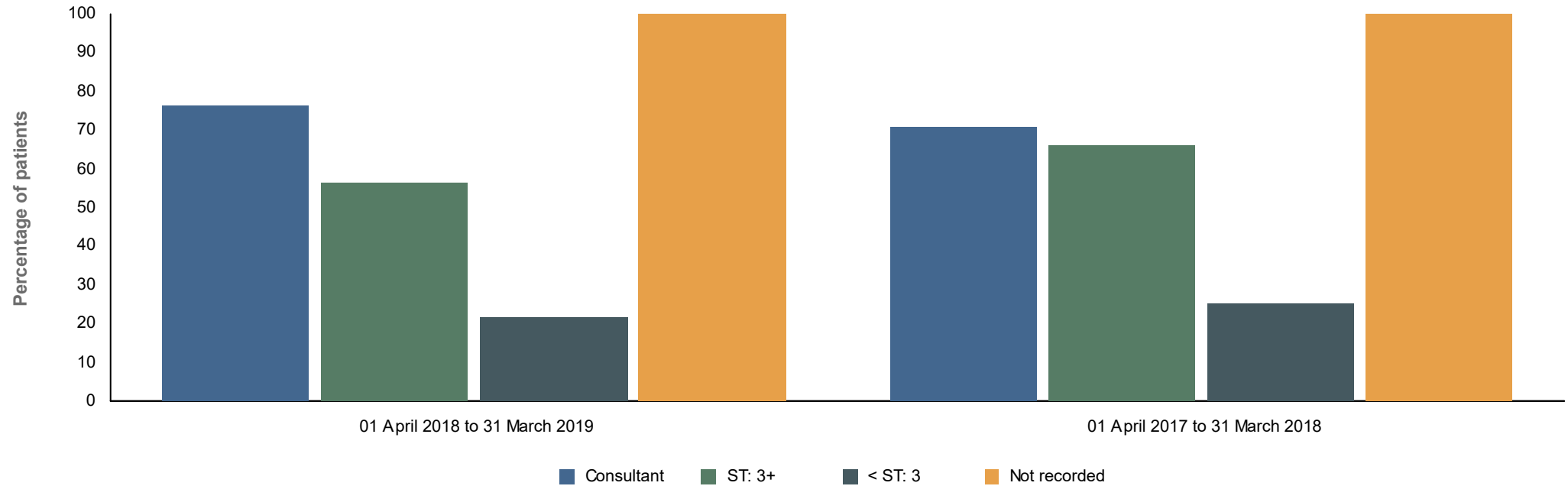
Sussex Trauma Network

Most senior doctor seeing patients within 30 minutes of arrival

All patients directly admitted, all specialities

Trauma Unit data only

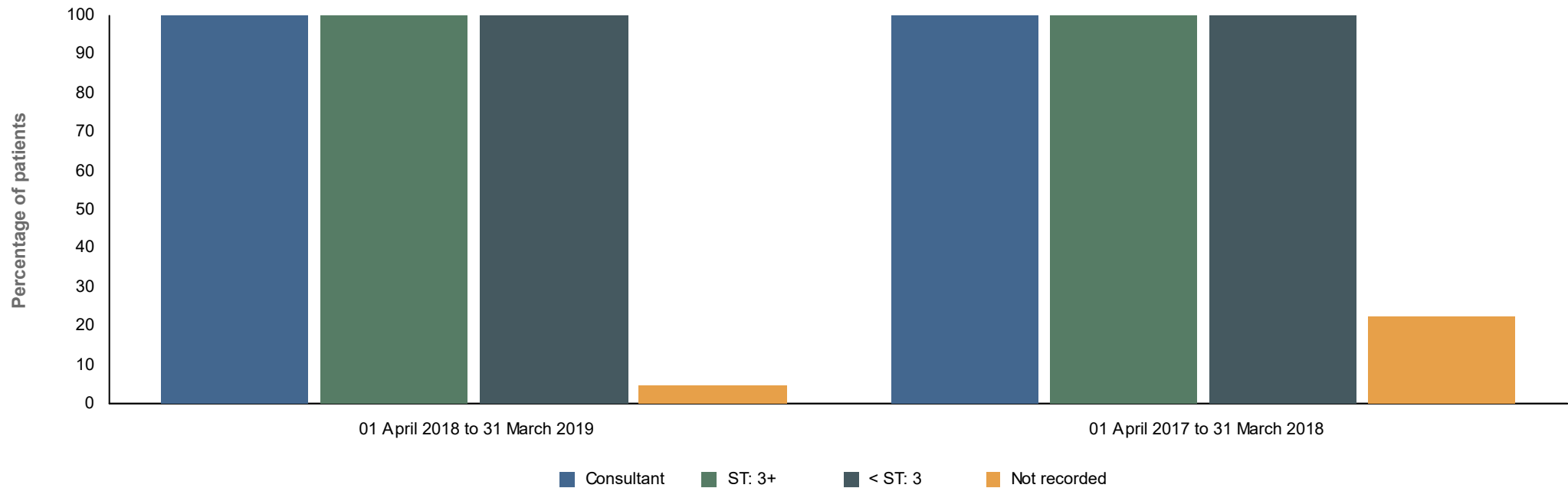
Category	Total	Consultant	TARN average consultant	ST: 3+	< ST: 3	Not recorded
01 April 2018 to 31 March 2019						
All patients	1160	95 (8.2%)	30.4%	108 (9.3%)	69 (5.9%)	888 (76.6%)
ISS > 15 patients	320	34 (10.6%)	44.3%	31 (9.7%)	16 (5.0%)	239 (74.7%)
Trauma team activated	85	45 (52.9%)	80.2%	25 (29.4%)	4 (4.7%)	11 (12.9%)
Trauma team not activated	1075	50 (4.7%)	13.1%	83 (7.7%)	65 (6.0%)	877 (81.6%)
01 April 2017 to 31 March 2018						
All patients	939	76 (8.1%)	29.2%	101 (10.8%)	51 (5.4%)	711 (75.7%)
ISS > 15 patients	239	20 (8.4%)	43.3%	34 (14.2%)	19 (7.9%)	166 (69.5%)
Trauma team activated	80	40 (50.0%)	78.1%	26 (32.5%)	5 (6.3%)	9 (11.3%)
Trauma team not activated	859	36 (4.2%)	12.7%	75 (8.7%)	46 (5.4%)	702 (81.7%)



Sussex Trauma Network
Most senior doctor seeing patients in the Emergency Department
 All patients directly admitted to the ED, all specialities

Trauma Unit data only

Category	Total	Consultant	TARN average consultant	ST: 3+	< ST: 3	Not recorded
01 April 2018 to 31 March 2019						
All patients	1135	222 (19.6%)	46.9%	501 (44.1%)	396 (34.9%)	16 (1.4%)
ISS > 15 patients	307	76 (24.8%)	59.7%	134 (43.6%)	92 (30.0%)	5 (1.6%)
Trauma team activated	85	48 (56.5%)	86.9%	32 (37.6%)	5 (5.9%)	0 (0.0%)
Trauma team not activated	1050	174 (16.6%)	32.5%	469 (44.7%)	391 (37.2%)	16 (1.5%)
01 April 2017 to 31 March 2018						
All patients	916	175 (19.1%)	46.1%	353 (38.5%)	319 (34.8%)	69 (7.5%)
ISS > 15 patients	234	44 (18.8%)	59.2%	94 (40.2%)	83 (35.5%)	13 (5.6%)
Trauma team activated	80	41 (51.3%)	86.3%	31 (38.8%)	7 (8.8%)	1 (1.3%)
Trauma team not activated	836	134 (16.0%)	32.1%	322 (38.5%)	312 (37.3%)	68 (8.1%)



Sussex Trauma Network

Most senior doctor seeing patients within 5 minutes of arrival**All patients directly admitted, all specialities**

Site	Total	Consultant	ST: 3+	< ST: 3	Not recorded
01 April 2018 to 31 March 2019					
Conquest Hospital	348	37 (10.6%)	20 (5.7%)	5 (1.4%)	286 (82.2%)
Eastbourne District General Hospital	180	1 (0.6%)	0 (0.0%)	0 (0.0%)	179 (99.4%)
Princess Royal Haywards Heath	93	2 (2.2%)	2 (2.2%)	0 (0.0%)	89 (95.7%)
Royal Sussex County Hospital	784	526 (67.1%)	18 (2.3%)	6 (0.8%)	234 (29.8%)
St. Richards Hospital	247	6 (2.4%)	3 (1.2%)	2 (0.8%)	236 (95.5%)
Worthing Hospital	292	0 (0.0%)	8 (2.7%)	1 (0.3%)	283 (96.9%)
01 April 2017 to 31 March 2018					
Conquest Hospital	294	37 (12.6%)	11 (3.7%)	5 (1.7%)	241 (82.0%)
Eastbourne District General Hospital	129	0 (0.0%)	2 (1.6%)	1 (0.8%)	126 (97.7%)
Princess Royal Haywards Heath	71	1 (1.4%)	5 (7.0%)	3 (4.2%)	62 (87.3%)
Royal Sussex County Hospital	682	434 (63.6%)	13 (1.9%)	10 (1.5%)	225 (33.0%)
St. Richards Hospital	221	8 (3.6%)	12 (5.4%)	3 (1.4%)	198 (89.6%)
Worthing Hospital	224	4 (1.8%)	7 (3.1%)	1 (0.4%)	212 (94.6%)

Sussex Trauma Network

Most senior doctor seeing patients within 30 minutes of arrival**All patients directly admitted, all specialities**

Site	Total	Consultant	ST: 3+	< ST: 3	Not recorded
01 April 2018 to 31 March 2019					
Conquest Hospital	348	48 (13.8%)	49 (14.1%)	22 (6.3%)	229 (65.8%)
Eastbourne District General Hospital	180	6 (3.3%)	3 (1.7%)	5 (2.8%)	166 (92.2%)
Princess Royal Haywards Heath	93	4 (4.3%)	10 (10.8%)	17 (18.3%)	62 (66.7%)
Royal Sussex County Hospital	784	561 (71.6%)	46 (5.9%)	24 (3.1%)	153 (19.5%)
St. Richards Hospital	247	25 (10.1%)	18 (7.3%)	19 (7.7%)	185 (74.9%)
Worthing Hospital	292	12 (4.1%)	28 (9.6%)	6 (2.1%)	246 (84.2%)
01 April 2017 to 31 March 2018					
Conquest Hospital	294	47 (16.0%)	20 (6.8%)	24 (8.2%)	203 (69.0%)
Eastbourne District General Hospital	129	1 (0.8%)	3 (2.3%)	7 (5.4%)	118 (91.5%)
Princess Royal Haywards Heath	71	4 (5.6%)	9 (12.7%)	6 (8.5%)	52 (73.2%)
Royal Sussex County Hospital	682	471 (69.1%)	40 (5.9%)	33 (4.8%)	138 (20.2%)
St. Richards Hospital	221	13 (5.9%)	39 (17.6%)	8 (3.6%)	161 (72.9%)
Worthing Hospital	224	11 (4.9%)	30 (13.4%)	6 (2.7%)	177 (79.0%)

Sussex Trauma Network

Most senior doctor seeing patients in the Emergency Department**All patients directly admitted, all specialities**

Site	Total	Consultant	ST: 3+	< ST: 3	Not recorded
01 April 2018 to 31 March 2019					
Conquest Hospital	342	80 (23.4%)	131 (38.3%)	130 (38.0%)	1 (0.3%)
Eastbourne District General Hospital	174	24 (13.8%)	62 (35.6%)	84 (48.3%)	4 (2.3%)
Princess Royal Haywards Heath	92	8 (8.7%)	37 (40.2%)	43 (46.7%)	4 (4.3%)
Royal Sussex County Hospital	780	594 (76.2%)	90 (11.5%)	87 (11.2%)	9 (1.2%)
St. Richards Hospital	244	61 (25.0%)	96 (39.3%)	83 (34.0%)	4 (1.6%)
Worthing Hospital	283	49 (17.3%)	175 (61.8%)	56 (19.8%)	3 (1.1%)
01 April 2017 to 31 March 2018					
Conquest Hospital	286	80 (28.0%)	45 (15.7%)	127 (44.4%)	34 (11.9%)
Eastbourne District General Hospital	124	24 (19.4%)	15 (12.1%)	63 (50.8%)	22 (17.7%)
Princess Royal Haywards Heath	70	10 (14.3%)	16 (22.9%)	41 (58.6%)	3 (4.3%)
Royal Sussex County Hospital	673	504 (74.9%)	64 (9.5%)	101 (15.0%)	4 (0.6%)
St. Richards Hospital	215	26 (12.1%)	131 (60.9%)	54 (25.1%)	4 (1.9%)
Worthing Hospital	221	35 (15.8%)	146 (66.1%)	34 (15.4%)	6 (2.7%)

Sussex Trauma Network

Time to CT scan

Direct Admissions

(excluding patients with a time difference greater than 24 hours or taken directly to theatre)

Trauma Unit data only

Patient category	n (CT with date and time rec)	Median minutes to*			TARN median minutes to	
		CT	Provisional report	Final report	CT	Final report
01 April 2018 to 31 March 2019						
All Patients	698	162 (81 - 242)	58 (40 - 89)	779 (438 - 960)	95 (36 - 215)	201 (70 - 716)
AIS 3+ Head Injury	285	146 (79 - 211)	52 (36 - 80)	714 (433 - 887)	74 (31 - 164)	201 (69 - 703)
NICE head injury criteria	16	129 (61 - 287)	47 (43 - 78)	N/A	30 (20 - 52)	229 (81 - 679)
01 April 2017 to 31 March 2018						
All Patients	515	169 (85 - 308)	54 (34 - 78)	705 (277 - 960)	95 (35 - 218)	231 (75 - 758)
AIS 3+ Head Injury	189	144 (78 - 235)	50 (32 - 75)	721 (548 - 902)	74 (31 - 166)	236 (73 - 752)
NICE head injury criteria	17	58 (50 - 133)	46 (41 - 66)	801 (801 - 826)	31 (20 - 53)	278 (89 - 746)

Median time to CT

Time from hospital arrival to first CT scan

Median time to provisional report

Time from first CT scan to the provisional report being produced

Median time to final report

Time from first CT scan to the review of the provisional report by a consultant

* N/A means there are not enough cases to calculate the median and interquartile range

Sussex Trauma Network
Time to CT scan - All Patients
Direct admissions (excluding patients taken directly to theatre)

01 April 2018 to 31 March 2019

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	209	209	128 (56 - 239)	50 (35 - 71)	760 (478 - 962)
Eastbourne District General Hospital	122	122	183 (107 - 273)	62 (41 - 78)	850 (597 - 937)
Princess Royal Haywards Heath	52	52	146 (102 - 192)	96 (52 - 124)	666 (310 - 960)
Royal Sussex County Hospital	671	670	39 (19 - 118)	79 (55 - 118)	603 (248 - 818)
St. Richards Hospital	148	148	151 (76 - 240)	52 (40 - 86)	N/A
Worthing Hospital	167	167	180 (113 - 230)	60 (40 - 88)	N/A

01 April 2017 to 31 March 2018

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	147	147	114 (48 - 252)	44 (22 - 63)	845 (269 - 1053)
Eastbourne District General Hospital	79	79	201 (116 - 345)	36 (25 - 62)	795 (618 - 1020)
Princess Royal Haywards Heath	34	34	185 (147 - 241)	91 (61 - 134)	503 (300 - 746)
Royal Sussex County Hospital	560	558	35 (17 - 138)	83 (54 - 121)	491 (165 - 790)
St. Richards Hospital	124	124	176 (90 - 319)	52 (36 - 70)	544 (202 - 697)
Worthing Hospital	131	131	202 (109 - 333)	72 (41 - 119)	N/A

* N/A means there are not enough cases to calculate the median and interquartile range

Sussex Trauma Network

Time to CT scan - AIS 3+ Head Injury

Direct admissions (excluding patients taken directly to theatre)

01 April 2018 to 31 March 2019

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	72	72	106 (50 - 186)	46 (32 - 65)	723 (626 - 788)
Eastbourne District General Hospital	69	69	172 (103 - 273)	62 (41 - 78)	850 (597 - 890)
Princess Royal Haywards Heath	23	23	123 (83 - 235)	62 (49 - 114)	464 (310 - 927)
Royal Sussex County Hospital	218	217	34 (18 - 78)	75 (51 - 111)	606 (263 - 818)
St. Richards Hospital	52	52	140 (80 - 217)	48 (35 - 79)	N/A
Worthing Hospital	69	69	151 (110 - 208)	50 (40 - 77)	N/A

01 April 2017 to 31 March 2018

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	47	47	108 (59 - 227)	52 (8 - 75)	1001 (902 - 1261)
Eastbourne District General Hospital	40	40	159 (86 - 262)	36 (34 - 62)	801 (619 - 1021)
Princess Royal Haywards Heath	13	13	163 (149 - 223)	91 (61 - 120)	492 (300 - 725)
Royal Sussex County Hospital	185	185	39 (18 - 145)	80 (49 - 117)	493 (212 - 780)
St. Richards Hospital	45	45	124 (85 - 208)	48 (36 - 66)	550 (539 - 697)
Worthing Hospital	44	44	176 (94 - 249)	43 (24 - 93)	N/A

* N/A means there are not enough cases to calculate the median and interquartile range

Sussex Trauma Network

Time to CT scan - NICE head injury criteria

Direct admissions (excluding patients taken directly to theatre)

01 April 2018 to 31 March 2019

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	6	6	139 (114 - 357)	N/A	N/A
Eastbourne District General Hospital	4	4	N/A	N/A	N/A
Royal Sussex County Hospital	60	59	23 (13 - 32)	75 (51 - 111)	640 (350 - 802)
St. Richards Hospital	2	2	N/A	N/A	N/A
Worthing Hospital	4	4	N/A	N/A	N/A

01 April 2017 to 31 March 2018

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	5	5	58 (58 - 59)	N/A	N/A
Eastbourne District General Hospital	5	5	50 (50 - 165)	N/A	N/A
Royal Sussex County Hospital	51	51	17 (11 - 29)	85 (53 - 124)	412 (132 - 720)
St. Richards Hospital	4	4	N/A	N/A	N/A
Worthing Hospital	3	3	N/A	N/A	N/A

* N/A means there are not enough cases to calculate the median and interquartile range

Sussex Trauma Network

Time to first operation (emergency operations only)**Direct Admissions (excluding patients with a time difference greater than 24 hours)**

Trauma Unit data only

Patient category	n	Median minutes to operation*	TARN median minutes to operation
01 April 2018 to 31 March 2019			
All Patients	13	969 (949 - 1264)	507 (190 - 1006)
Spinal operations	1	N/A	801 (467 - 1156)
Abdominal operations	1	N/A	168 (97 - 317)
Limb operations	4	N/A	986 (590 - 1240)
Skin operations	7	1010 (949 - 1270)	787 (344 - 1060)
01 April 2017 to 31 March 2018			
All Patients	10	1006 (775 - 1283)	497 (186 - 1019)
Chest operations	1	N/A	220 (86 - 640)
Abdominal operations	2	N/A	169 (89 - 353)
Limb operations	6	1162 (1041 - 1335)	995 (568 - 1241)
BOAST4 operations	1	N/A	710 (318 - 1058)

A list of the procedures defined as emergency operations is available from TARN on request.

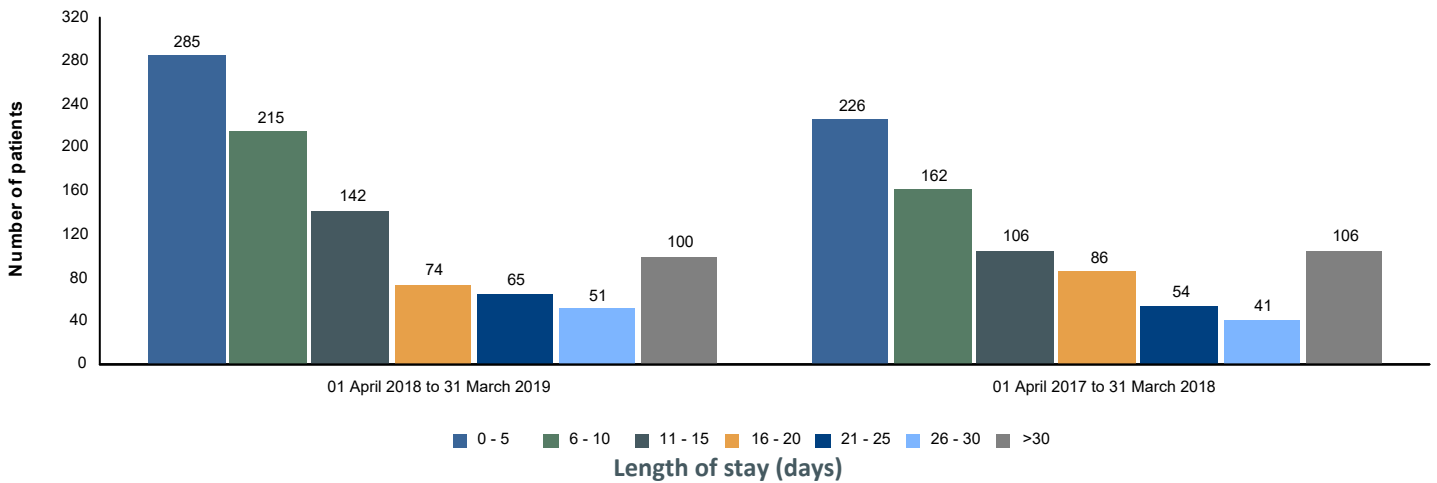
* N/A means there are not enough cases to calculate the median and interquartile range

Sussex Trauma Network
Length of stay (LOS) in hospital
 Trauma Unit data only

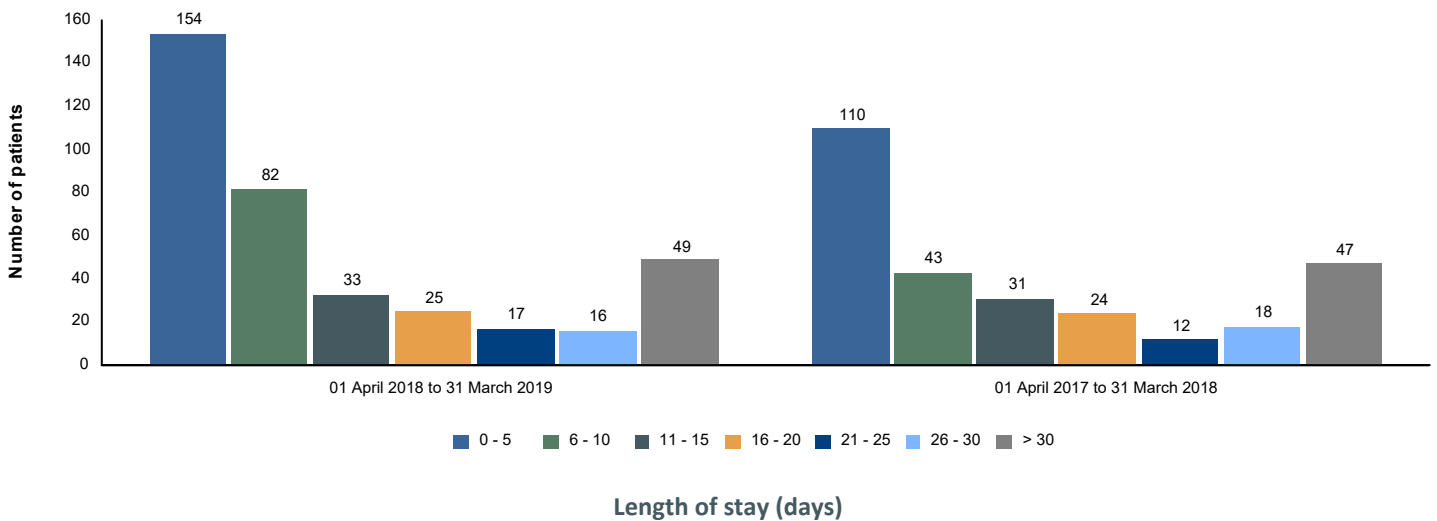
Date range	All patients			ISS <= 15			ISS > 15		
	n	Median LOS	Total days	n	Median LOS	Total days	n	Median LOS	Total days
01 April 2018 to 31 March 2019	1308	9 (4 - 19)	18471	932	10 (5 - 19)	13269	376	7 (3 - 18)	5202
TARN average		8 (4 - 16)			8 (5 - 15)			8 (4 - 18)	
01 April 2017 to 31 March 2018	1066	10 (4 - 21)	17673	781	11 (5 - 21)	12667	285	9 (4 - 23)	5006
TARN average		9 (4 - 17)			8 (5 - 16)			9 (4 - 18)	

All values are median number of days (interquartile range)

Total length of stay, patients with an ISS <= 15



Total length of stay, patients with an ISS > 15

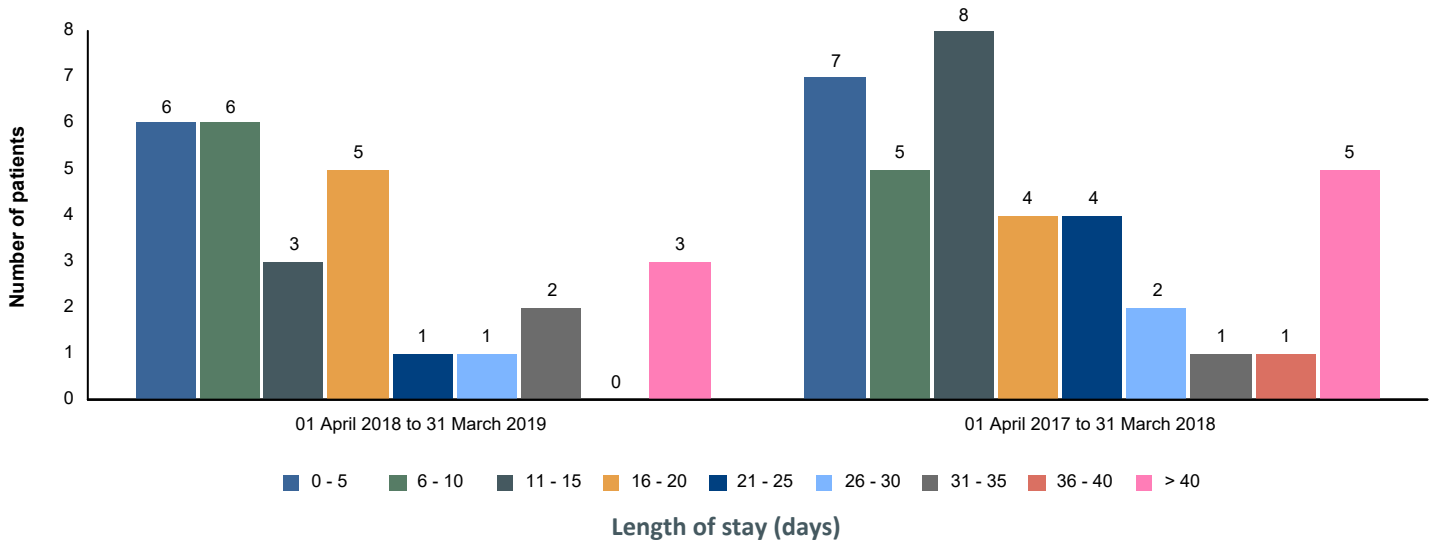


Sussex Trauma Network Critical Care Information

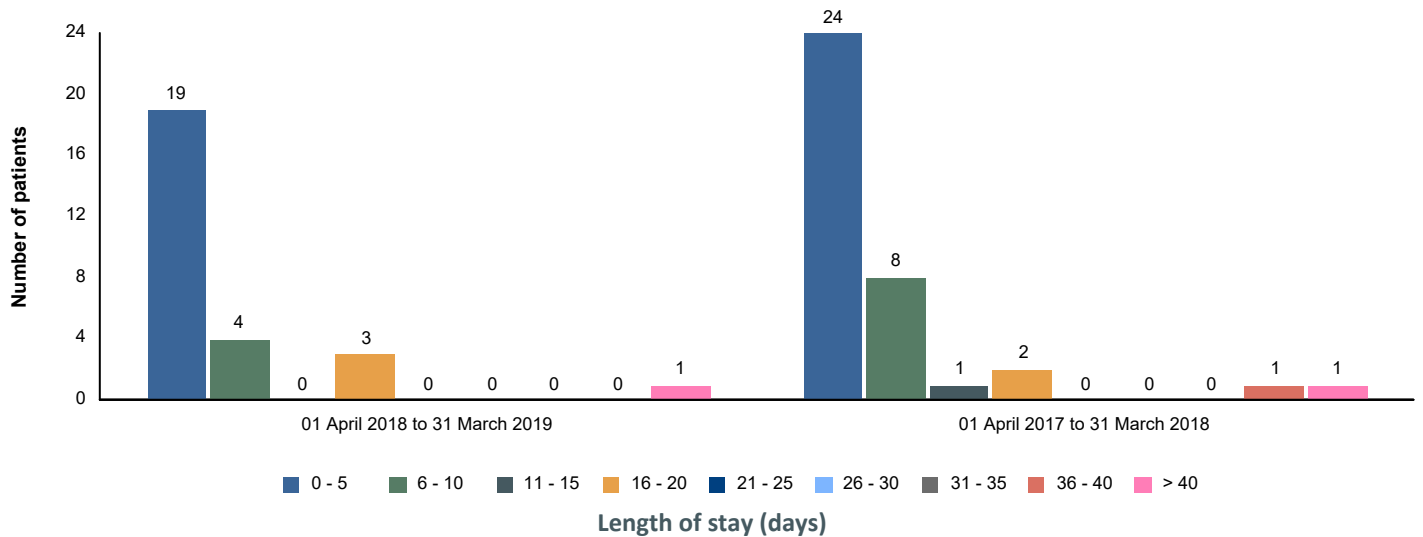
Trauma Unit data only

Date range	Patients that went to critical care	Median total LOS for critical care patients (days)	Median LOS in critical care (days)	Multiple stays in critical care area*	Multiple stays in critical care area with dates recorded*	Multiple stays in critical care area within 48 hours*
01 April 2018 to 31 March 2019	27	11 (6 - 22)	3 (2 - 6)	1 (3.7%)	0 (0.0%)	N/A
TARN average		12 (5 - 24)	3 (1 - 7)	6.3%	3.8%	0.3%
01 April 2017 to 31 March 2018	37	13 (10 - 25)	3 (1 - 8)	1 (2.7%)	0 (0.0%)	N/A
TARN average		12 (6 - 24)	3 (1 - 7)	6.6%	3.9%	0.3%

Total hospital length of stay for patients that went to critical care



Total length of stay in critical care



* Multi stays also includes step downs (i.e. ICU -> HDU) within critical care area

Sussex Trauma Network Critical Care Information

Site	n	Median total length of stay (days)	Median length of stay in critical care (days)	Multiple stays in critical care area*	Multiple stays in critical care area with dates recorded*	Multiple stays in critical care area within 48 hours*
01 April 2018 to 31 March 2019						
Conquest Hospital	12	15 (6 - 22)	2 (1 - 6)	1 (8.3%)	0 (0.0%)	N/A
Eastbourne District General Hospital	3	7	2	0 (0.0%)	N/A	N/A
Princess Royal Haywards Heath	4	17	11	0 (0.0%)	N/A	N/A
Royal Sussex County Hospital	199	13 (7 - 26)	5 (2 - 9)	5 (2.5%)	0 (0.0%)	N/A
St. Richards Hospital	5	8 (8 - 11)	4 (4 - 5)	0 (0.0%)	N/A	N/A
Worthing Hospital	3	35	5	0 (0.0%)	N/A	N/A
01 April 2017 to 31 March 2018						
Conquest Hospital	11	13 (7 - 28)	3 (2 - 7)	0 (0.0%)	N/A	N/A
Eastbourne District General Hospital	1	23	5	0 (0.0%)	N/A	N/A
Princess Royal Haywards Heath	6	11 (10 - 16)	3 (2 - 9)	0 (0.0%)	N/A	N/A
Royal Sussex County Hospital	192	14 (6 - 26)	4 (2 - 9)	5 (2.6%)	0 (0.0%)	N/A
St. Richards Hospital	12	15 (11 - 25)	1 (1 - 5)	0 (0.0%)	N/A	N/A
Worthing Hospital	7	21 (18 - 52)	8 (5 - 20)	1 (14.3%)	0 (0.0%)	N/A

* Multi stays also includes step downs (i.e. ICU -> HDU) within critical care area

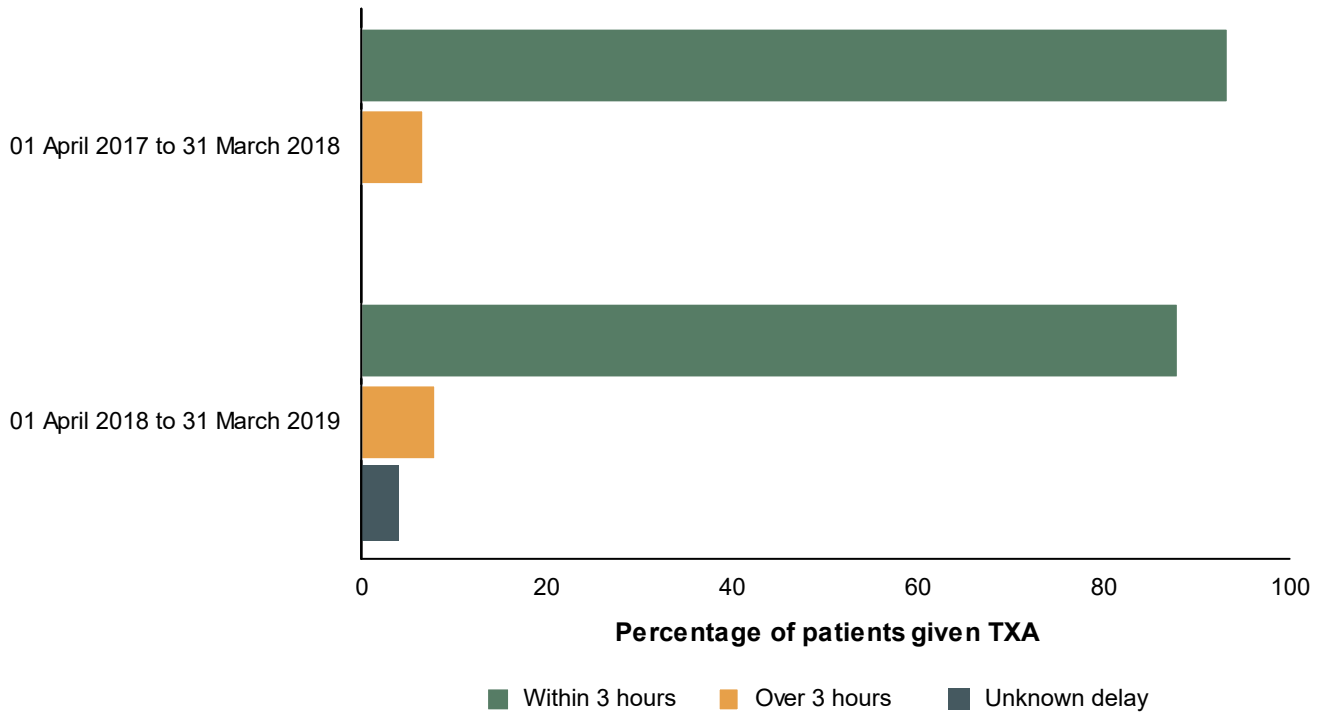
Sussex Trauma Network

Patients receiving Tranexamic Acid

All patients who receive blood products within 6 hours of the incident.

Trauma Unit data only

Date Range	n	Received TXA	TXA within 3 hours of incident	TXA over 3 hours from incident	TXA, unknown delay
01 April 2017 to 31 March 2018	16	15	14 (93.3%)	1 (6.7%)	0 (0.0%)
TARN average			87.4%	7.6%	5%
01 April 2018 to 31 March 2019	29	25	22 (88.0%)	2 (8.0%)	1 (4.0%)
TARN average			87.3%	7.3%	5.3%



Sussex Trauma Network
NICE Quality Standards
 Figures in blue represent the TARN average

Trauma Unit data only

1: Airway Management

Rapid sequence induction (RSI) of anaesthesia and intubation within 45 minutes of the initial call to the emergency services.

n	Definitive airway	At scene	ED	Recorded within 45 minutes of initial call
Direct admissions, 01 April 2018 to 31 March 2019				
7	2 (28.6%)	2 (28.6%)	0 (0.0%)	0 (0.0%)
	63.1%	18.8%	44.3%	2.8%
Direct admissions, 01 April 2017 to 31 March 2018				
9	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
	64.3%	18.9%	45.4%	3.1%

Definitive airway management is defined as the management of an airway using intubation, tracheostomy or cricothyroidotomy. Patients are eligible for this standard if they have a GCS < 9 pre-hospital or in the ED.

2: Imaging

People who have had urgent 3D imaging for major trauma have a provisional written radiology report within 60 minutes of the scan.

Number of patients undergoing 3D imaging	Provisional written report within 60 minutes
Direct admissions, 01 April 2018 to 31 March 2019	
521	5 (1.0%)
	9.5%
Direct admissions, 01 April 2017 to 31 March 2018	
332	7 (2.1%)
	9.5%

Patients are eligible for this standard when they have undergone urgent 3D imaging (CT or MRI within 4 hours of arrival).

3: Fixation & soft tissue cover of open long bone fractures

People with open fractures of long bones have fixation and definitive soft tissue cover within 72 hours of injury

n	Stabilisation & fixation	Definitive soft tissue cover	Stabilisation, fixation & definitive soft tissue cover within 72 hrs
Direct admissions, 01 April 2018 to 31 March 2019			
28	13 (46.4%)	6 (21.4%)	6 (20.7%)
	68.5%	22.4%	21.0%
Direct admissions, 01 April 2017 to 31 March 2018			
20	16 (80.0%)	6 (30.0%)	6 (30%)
	68.5%	22.4%	21.0%

Patients are eligible for this standard when they have suffered from open fractures of the femur, tibia, fibula, humerus, radius & ulna