



TARN

THE TRAUMA AUDIT & RESEARCH NETWORK

Sussex Trauma Network

CLINICAL REPORT ISSUE I - AUGUST 2020

I: CORE MEASURES FOR ALL PATIENTS

II: ORTHOPAEDIC INJURIES

Created on 26/08/2020

EXECUTIVE SUMMARY

01 June 2019 to 31 May 2020 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

Meets target

Compared to previous year

Case Ascertainment is 82.9 - 89.7% (average 86%), this is **above** the target of 80%. This represents **a decrease of 7%** compared to previous year.



Data Accreditation is 92.1%, this is **below** the target of 95%. This represents **no change** compared to previous year.



The excess rate of survival is as expected
Ws is 0.61. 95% confidence intervals are **-0.11 to 1.33**

The survivor /death ratio is 1.36
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

CORE section

Compared to TARN average

Compared to previous year

5% of ISS > 15 patients were seen by a Consultant within 5 minutes of arrival, this is **below** the TARN average of 37.8% and has **remained at the same level** compared to previous year.



57% of NICE criteria patients had a CT within 60 minutes, this is **below** the TARN average of 78% and has **increased by 25%** compared to previous year.
50% of the patients that had a CT within 60 minutes arrived between the hours of 08:00 - 20:00.



9 days median length of stay for ISS > 15 patients, this is **within 1 day of** the TARN average of 8 days. This represents **no change** compared to previous year.



Rehabilitation prescription was completed for **64%** of patients with ISS >8, this is **below** the TARN average of 74%. This has **increased by 12%** compared to previous year.



THEMED section: Patients with head or spinal injuries

The median time from incident to craniotomy is 460 mins, this is above the national average of 386 mins. This represents a decrease of 30 mins 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. **Thoracic, Abdominal & Shocked** - includes patients with thoracic injuries, abdominal injuries and those shocked.

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.



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 June 2019 to 31 May 2020				01 June 2018 to 31 May 2019			
	N	E	C (%)	A (%)	N	E	C (%)	A (%)
Brighton and Sussex University Hospitals NHS Trust	987	1236 - 1354	72.9 - 79.8	92.1	1000	1236 - 1354	73.9 - 80.9	93.8
Princess Royal Haywards Heath	141	221	63.9	93	135	221	61.2	92.9
Royal Sussex County Hospital	987	849	100+	92	1000	849	100+	93.8
East Sussex Healthcare NHS Trust	655	439 - 522	100+	94.3	636	439 - 522	100+	89.7
Conquest Hospital	457	324 - 385	100+	95	433	324 - 385	100+	90.3
Eastbourne District General Hospital	198	115 - 137	100+	94	203	115 - 137	100+	88.6
Western Sussex Hospitals NHS Trust	423	626 - 734	57.6 - 67.6	88.4	579	626 - 734	78.9 - 92.5	82.8
St. Richards Hospital	108	297 - 353	30.6 - 36.3	85	272	297 - 353	77.1 - 91.5	83.4
Worthing Hospital	315	329 - 381	82.7 - 95.8	90	307	329 - 381	80.6 - 93.4	82.4

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 -

Site	n	Case ascertainment	Survivor:Death ratio
Conquest Hospital	890	100+	1.53
Eastbourne District General Hospital	401	100+	2.44
Royal Sussex County Hospital	1,987	100+	1.06
St. Richards Hospital	380	30.6 - 36.3	1.80
Worthing Hospital	622	82.7 - 95.8	1.69

Overall

Case ascertainment: **82.9 - 89.7 (average 86)**
Survivor / death ratio: **1.36**

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.

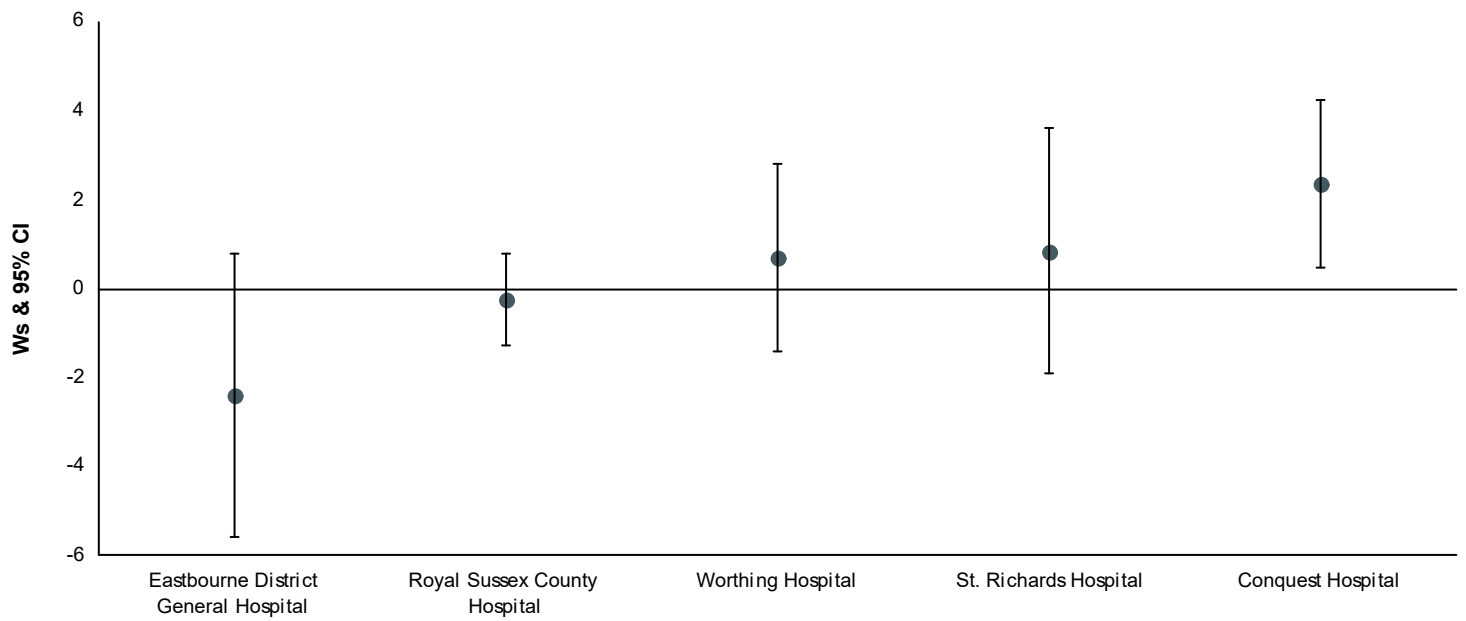
Data confidence levels

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 June 2018 to 31 May 2020

Site	n	WS	95% Confidence interval
Conquest Hospital	800	2.34	0.46 to 4.22
Eastbourne District General Hospital	251	-2.39	-5.56 to 0.79
Royal Sussex County Hospital	1665	-0.24	-1.27 to 0.78
St. Richards Hospital	351	0.85	-1.91 to 3.60
Worthing Hospital	576	0.70	-1.42 to 2.81



Sussex Trauma Network

Case mix standardised excess rate of survival (Ws) & Ws Breakdown

01 June 2018 to 31 May 2020

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

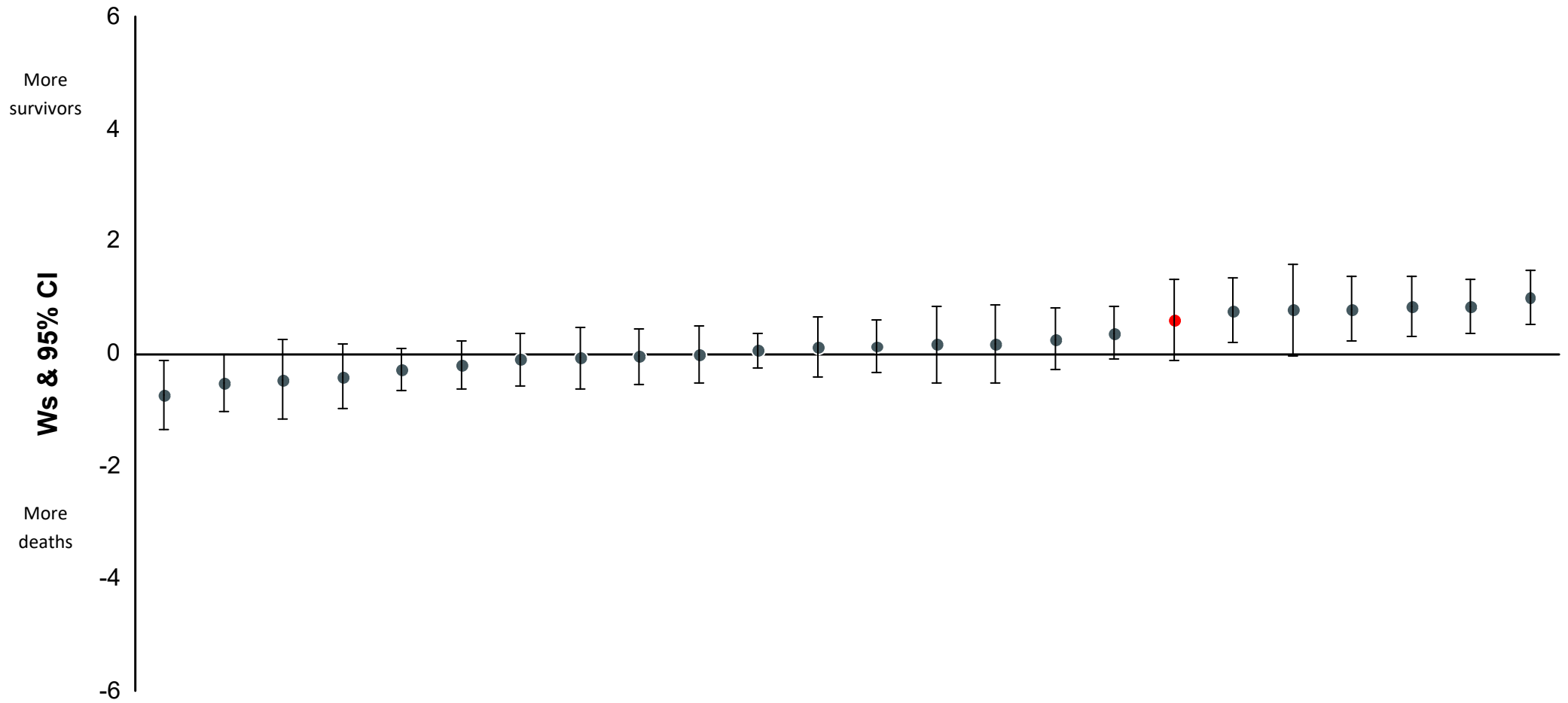
PS Band	Number in band	Observed Survivors	Expected Survivors	Difference*	TARN fraction	Ws	95% confidence interval
95 - 100	2070	2038	2033.12	0.24	0.67	0.16	
90 - 95	743	692	690.78	0.16	0.16	0.03	
80 - 90	429	383	370.89	2.82	0.08	0.24	
65 - 80	190	147	141.70	2.79	0.04	0.11	
45 - 65	62	40	35.50	7.26	0.02	0.16	
25 - 45	36	14	12.98	2.84	0.02	0.04	
0 - 25	23	1	3.06	-8.96	0.01	-0.12	
<i>Total</i>	<i>3643</i>	<i>3402</i>	<i>3288.03</i>			0.61	-0.11 to 1.33

Sussex Trauma Network

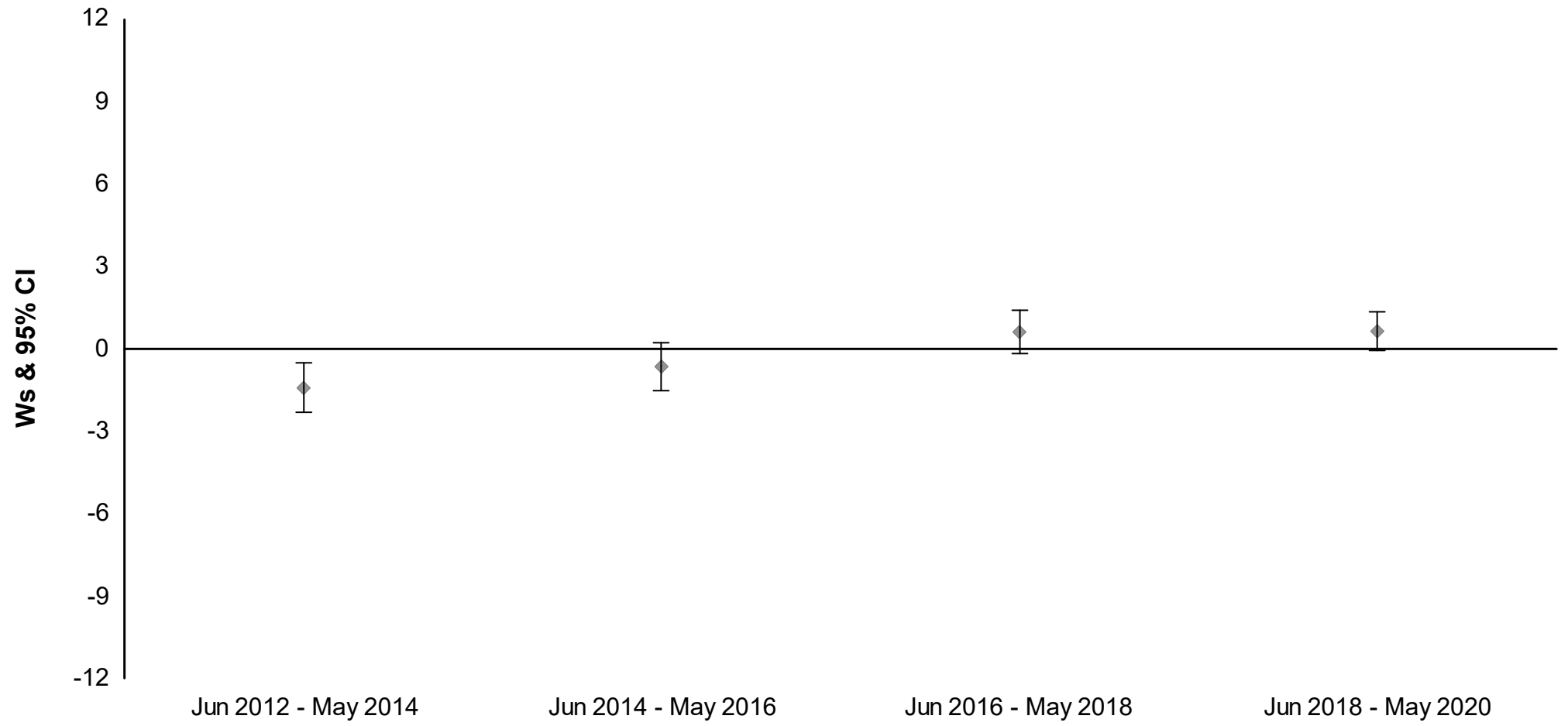
Trauma Network Comparative Outcome Analysis - 01 June 2018 to 31 May 2020

Outcome at 30 days or discharge

Sussex Trauma Network is highlighted



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

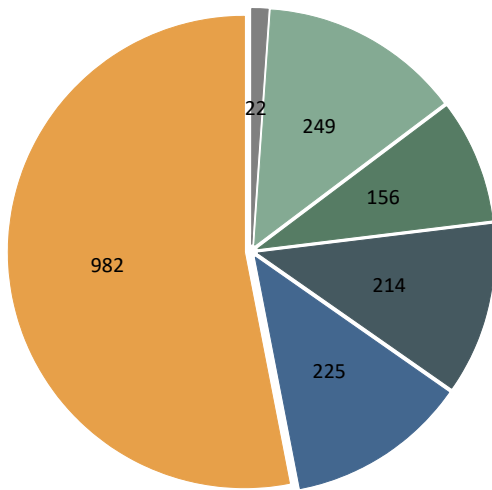


Sussex Trauma Network
Age & Injury Mechanism

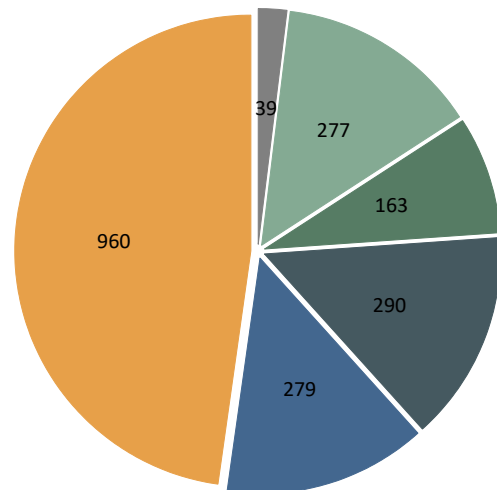
(row percentages)

Mechanism	Under 16	16 to 44	45 to 54	55 to 64	65 to 74	75 and over	Total
01 June 2019 to 31 May 2020							
RTC	3 (1.0%)	119 (40.1%)	45 (15.2%)	47 (15.8%)	43 (14.5%)	40 (13.5%)	297
Fall < 2m	13 (1.0%)	47 (3.6%)	65 (4.9%)	129 (9.8%)	157 (11.9%)	909 (68.9%)	1320
Fall > 2m	3 (2.3%)	31 (23.5%)	26 (19.7%)	24 (18.2%)	20 (15.2%)	28 (21.2%)	132
Shooting / Stabbing	0 (0.0%)	9 (45.0%)	5 (25.0%)	5 (25.0%)	1 (5.0%)	0 (0.0%)	20
Other	3 (3.8%)	43 (54.4%)	15 (19.0%)	9 (11.4%)	4 (5.1%)	5 (6.3%)	79
Total	22 (1.2%)	249 (13.5%)	156 (8.4%)	214 (11.6%)	225 (12.2%)	982 (53.1%)	1848
TARN average	3.9%	19.6%	7.9%	11.5%	11.6%	45.5%	

01 June 2018 to 31 May 2019							
RTC	11 (3.4%)	129 (40.2%)	42 (13.1%)	49 (15.3%)	41 (12.8%)	49 (15.3%)	321
Fall < 2m	22 (1.5%)	54 (3.8%)	75 (5.3%)	195 (13.7%)	208 (14.6%)	872 (61.2%)	1426
Fall > 2m	1 (0.6%)	49 (28.5%)	26 (15.1%)	34 (19.8%)	27 (15.7%)	35 (20.3%)	172
Shooting / Stabbing	0 (0.0%)	15 (71.4%)	5 (23.8%)	1 (4.8%)	0 (0.0%)	0 (0.0%)	21
Other	5 (7.4%)	30 (44.1%)	15 (22.1%)	11 (16.2%)	3 (4.4%)	4 (5.9%)	68
Total	39 (1.9%)	277 (13.8%)	163 (8.1%)	290 (14.4%)	279 (13.9%)	960 (47.8%)	2008
TARN average	4.1%	22.7%	8.5%	12.7%	11.7%	40.3%	



01 June 2019 to 31 May 2020



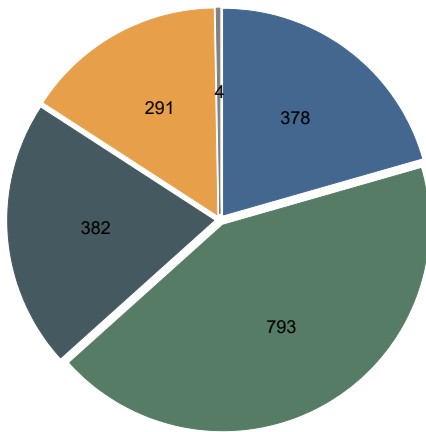
01 June 2018 to 31 May 2019

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

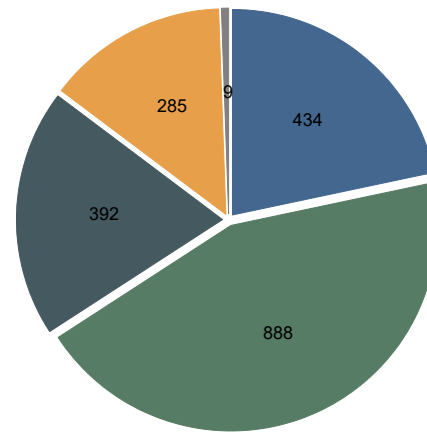
Sussex Trauma Network
ISS & Injury Mechanism
 (row percentages)

Mechanism	1 - 8	9 - 15	16 - 24	25 - 45	>45	Total	>15
01 June 2019 to 31 May 2020							
RTC	45 (15.2%)	103 (34.7%)	79 (26.6%)	68 (22.9%)	2 (0.7%)	297	149 (50.2%)
Fall < 2m	298 (22.6%)	610 (46.2%)	251 (19.0%)	161 (12.2%)	0 (0.0%)	1320	412 (31.2%)
Fall > 2m	28 (21.2%)	44 (33.3%)	31 (23.5%)	27 (20.5%)	2 (1.5%)	132	60 (45.5%)
Shooting / Stabbing	2 (10.0%)	12 (60.0%)	3 (15.0%)	3 (15.0%)	0 (0.0%)	20	6 (30.0%)
Other	5 (6.3%)	24 (30.4%)	18 (22.8%)	32 (40.5%)	0 (0.0%)	79	50 (63.3%)
Total	378 (20.5%)	793 (42.9%)	382 (20.7%)	291 (15.7%)	4 (0.2%)	1848	677 (36.6%)
TARN average	17.2%	47.1%	18.3%	16.8%	0.5%		35.7%

01 June 2018 to 31 May 2019							
RTC	53 (16.5%)	127 (39.6%)	75 (23.4%)	62 (19.3%)	4 (1.2%)	321	141 (43.9%)
Fall < 2m	336 (23.6%)	668 (46.8%)	253 (17.7%)	169 (11.9%)	0 (0.0%)	1426	422 (29.6%)
Fall > 2m	37 (21.5%)	56 (32.6%)	44 (25.6%)	31 (18.0%)	4 (2.3%)	172	79 (45.9%)
Shooting / Stabbing	1 (4.8%)	10 (47.6%)	7 (33.3%)	3 (14.3%)	0 (0.0%)	21	10 (47.6%)
Other	7 (10.3%)	27 (39.7%)	13 (19.1%)	20 (29.4%)	1 (1.5%)	68	34 (50.0%)
Total	434 (21.6%)	888 (44.2%)	392 (19.5%)	285 (14.2%)	9 (0.4%)	2008	686 (34.2%)
TARN average	16.7%	45.1%	19%	18.5%	0.7%		38.3%



01 June 2019 to 31 May 2020



01 June 2018 to 31 May 2019

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

Distribution of patients by transfer status

01 June 2019 to 31 May 2020

Hospital	All patients				ISS > 15 patients			
	n	No transfer	Transfer In	Transfer Out	n	No transfer	Transfer In	Transfer Out
Conquest Hospital	457	321 (70.2%)	82 (17.9%)	54 (11.8%)	127	68 (53.5%)	26 (20.5%)	33 (26.0%)
Eastbourne District General Hospital	198	97 (49.0%)	17 (8.6%)	84 (42.4%)	97	47 (48.5%)	13 (13.4%)	37 (38.1%)
Royal Sussex County Hospital	987	662 (67.1%)	208 (21.1%)	117 (11.9%)	444	282 (63.5%)	111 (25.0%)	51 (11.5%)
St. Richards Hospital	108	79 (73.1%)	10 (9.3%)	19 (17.6%)	35	17 (48.6%)	7 (20.0%)	11 (31.4%)
Worthing Hospital	315	265 (84.1%)	16 (5.1%)	34 (10.8%)	91	63 (69.2%)	11 (12.1%)	17 (18.7%)
Total	2065	1424 (69.0%)	333 (16.1%)	308 (14.9%)	794	477 (60.1%)	168 (21.2%)	149 (18.8%)

01 June 2018 to 31 May 2019

Hospital	All patients				ISS > 15 patients			
	n	No transfer	Transfer In	Transfer Out	n	No transfer	Transfer In	Transfer Out
Conquest Hospital	433	293 (67.7%)	79 (18.2%)	61 (14.1%)	124	64 (51.6%)	25 (20.2%)	35 (28.2%)
Eastbourne District General Hospital	203	107 (52.7%)	19 (9.4%)	77 (37.9%)	83	41 (49.4%)	16 (19.3%)	26 (31.3%)
Royal Sussex County Hospital	1000	703 (70.3%)	192 (19.2%)	105 (10.5%)	427	291 (68.1%)	86 (20.1%)	50 (11.7%)
St. Richards Hospital	272	234 (86.0%)	15 (5.5%)	23 (8.5%)	77	58 (75.3%)	9 (11.7%)	10 (13.0%)
Worthing Hospital	307	268 (87.3%)	11 (3.6%)	28 (9.1%)	77	58 (75.3%)	2 (2.6%)	17 (22.1%)
Total	2215	1605 (72.5%)	316 (14.3%)	294 (13.3%)	788	512 (65.0%)	138 (17.5%)	138 (17.5%)

Sussex Trauma Network

Distribution of patients by ISS

01 June 2019 to 31 May 2020

Hospital	1 - 8	9 - 15	16 - 24	25 - 45	>45	Total	>15
Conquest Hospital	94 (20.6%)	236 (51.6%)	76 (16.6%)	51 (11.2%)	0 (0.0%)	457	127 (27.8%)
Eastbourne District General Hospital	41 (20.7%)	60 (30.3%)	57 (28.8%)	40 (20.2%)	0 (0.0%)	198	97 (49.0%)
Royal Sussex County Hospital	149 (15.1%)	394 (39.9%)	223 (22.6%)	217 (22.0%)	4 (0.4%)	987	444 (45.0%)
St. Richards Hospital	31 (28.7%)	42 (38.9%)	17 (15.7%)	18 (16.7%)	0 (0.0%)	108	35 (32.4%)
Worthing Hospital	87 (27.6%)	137 (43.5%)	60 (19.0%)	31 (9.8%)	0 (0.0%)	315	91 (28.9%)
Total	402 (19.5%)	869 (42.1%)	433 (21.0%)	357 (17.3%)	4 (0.2%)	2065	794 (38.5%)

01 June 2018 to 31 May 2019

Hospital	1 - 8	9 - 15	16 - 24	25 - 45	>45	Total	>15
Conquest Hospital	74 (17.1%)	235 (54.3%)	68 (15.7%)	55 (12.7%)	1 (0.2%)	433	124 (28.6%)
Eastbourne District General Hospital	51 (25.1%)	69 (34.0%)	50 (24.6%)	33 (16.3%)	0 (0.0%)	203	83 (40.9%)
Royal Sussex County Hospital	170 (17.0%)	403 (40.3%)	215 (21.5%)	203 (20.3%)	9 (0.9%)	1000	427 (42.7%)
St. Richards Hospital	69 (25.4%)	126 (46.3%)	48 (17.6%)	27 (9.9%)	2 (0.7%)	272	77 (28.3%)
Worthing Hospital	93 (30.3%)	137 (44.6%)	48 (15.6%)	29 (9.4%)	0 (0.0%)	307	77 (25.1%)
Total	457 (20.6%)	970 (43.8%)	429 (19.4%)	347 (15.7%)	12 (0.5%)	2215	788 (35.6%)

Sussex Trauma Network

Patients with head injuries

Defined as patients with an AIS3+ head injury.

01 June 2019 to 31 May 2020

Hospital	n	Direct admissions from scene of incident			
		No transfer	Died within 12 hours of arrival	Transferred out	Transferred in
Conquest Hospital	91	53	0	19	19
Eastbourne District General Hospital	87	45	0	32	10
Royal Sussex County Hospital	304	208	4	17	79
St. Richards Hospital	26	17	0	7	2
Worthing Hospital	90	70	0	15	5

01 June 2018 to 31 May 2019

Hospital	n	Direct admissions from scene of incident			
		No transfer	Died within 12 hours of arrival	Transferred out	Transferred in
Conquest Hospital	109	53	0	30	26
Eastbourne District General Hospital	89	49	0	27	13
Royal Sussex County Hospital	278	195	3	23	60
St. Richards Hospital	63	55	0	6	2
Worthing Hospital	72	59	0	13	0

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 June 2019 to 31 May 2020

Hospital	n	Direct admissions from scene of incident			
		No transfer	Died within 12 hours of arrival	Transferred out	Transferred in
Conquest Hospital	5	1	0	4	0
Eastbourne District General Hospital	9	2	0	4	3
Royal Sussex County Hospital	68	48	3	7	13
St. Richards Hospital	2	0	0	1	1
Worthing Hospital	1	0	0	1	0

01 June 2018 to 31 May 2019

Hospital	n	Direct admissions from scene of incident			
		No transfer	Died within 12 hours of arrival	Transferred out	Transferred in
Conquest Hospital	8	1	0	3	4
Eastbourne District General Hospital	4	1	0	0	3
Royal Sussex County Hospital	49	35	3	9	5
St. Richards Hospital	2	1	0	0	1
Worthing Hospital	2	1	0	1	0

Sussex Trauma Network

Pre-hospital care

Figures in blue represent the TARN average

Trauma Unit data only

Direct admissions, 01 June 2019 to 31 May 2020

Number of patients: 953

Number of patients with pre-hospital data: 672

Level of personnel on scene

Doctor	Paramedic	Not recorded
0 (0.0%)	668 (99.4%)	4 (0.6%)
2.5%	95.3%	2.2%

Mode of transport to hospital

Ambulance	Helicopter	Self-presented	Not recorded*
804 (84.4%)	0 (0.0%)	149 (15.6%)	0 (0.0%)
80.7%	1.3%	18.0%	0.0%

Direct admissions, 01 June 2018 to 31 May 2019

Number of patients: 1091

Number of patients with pre-hospital data: 780

Level of personnel on scene

Doctor	Paramedic	Not recorded
0 (0.0%)	778 (99.7%)	2 (0.3%)
3.4%	94.3%	2.3%

Mode of transport to hospital

Ambulance	Helicopter	Self-presented	Not recorded*
923 (84.6%)	2 (0.2%)	166 (15.2%)	0 (0.0%)
79.1%	1.9%	19.0%	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 June 2019 to 31 May 2020						
10	5 (50.0%)	0 (0.0%)	5 (50.0%)	1 (20.0%)	0 (0.0%)	2.6
	57.3%	15.1%	42.2%	86.3%	0.4%	1.47
Direct admissions, 01 June 2018 to 31 May 2019						
9	3 (33.3%)	1 (11.1%)	2 (22.2%)	1 (33.3%)	0 (0.0%)	6.2
	62.3%	17.1%	45.2%	81.5%	0.7%	1.47

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

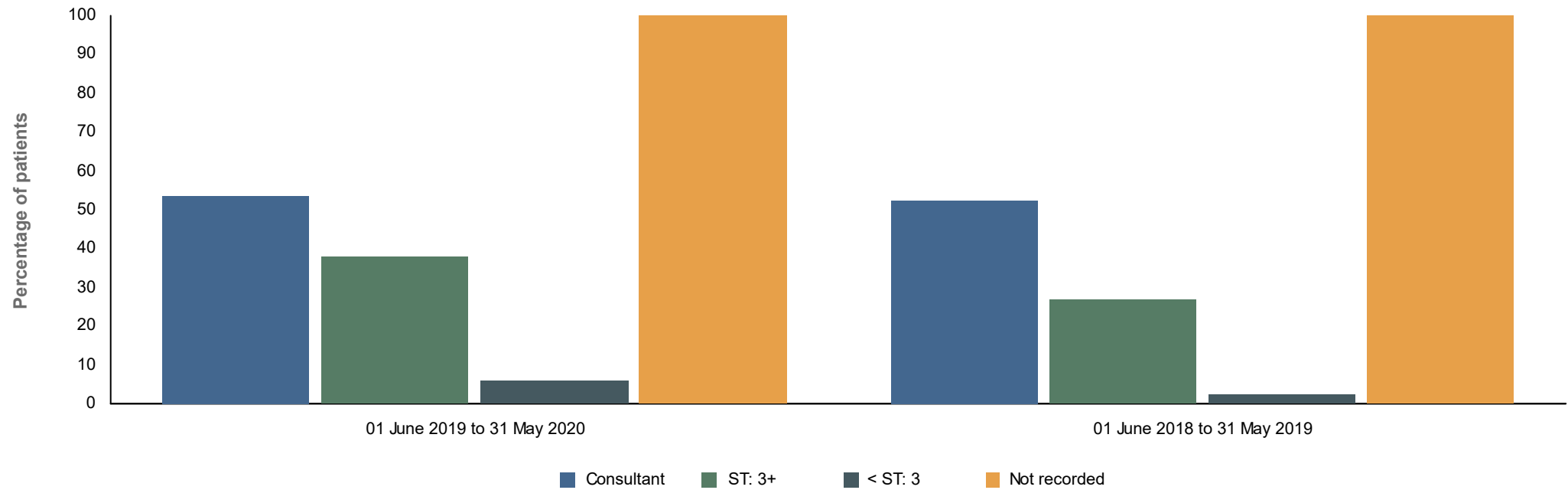
Sussex Trauma Network

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 June 2019 to 31 May 2020						
All patients	953	38 (4.0%)	24.2%	43 (4.5%)	14 (1.5%)	858 (90.0%)
ISS > 15 patients	293	14 (4.8%)	37.8%	15 (5.1%)	4 (1.4%)	260 (88.7%)
Trauma team activated	71	31 (43.7%)	76.1%	18 (25.4%)	1 (1.4%)	21 (29.6%)
Trauma team not activated	882	7 (0.8%)	7.5%	25 (2.8%)	13 (1.5%)	837 (94.9%)
01 June 2018 to 31 May 2019						
All patients	1091	48 (4.4%)	25.2%	29 (2.7%)	6 (0.5%)	1008 (92.4%)
ISS > 15 patients	309	20 (6.5%)	39.6%	11 (3.6%)	1 (0.3%)	277 (89.6%)
Trauma team activated	94	38 (40.4%)	76.2%	18 (19.1%)	1 (1.1%)	37 (39.4%)
Trauma team not activated	997	10 (1.0%)	7.8%	11 (1.1%)	5 (0.5%)	971 (97.4%)



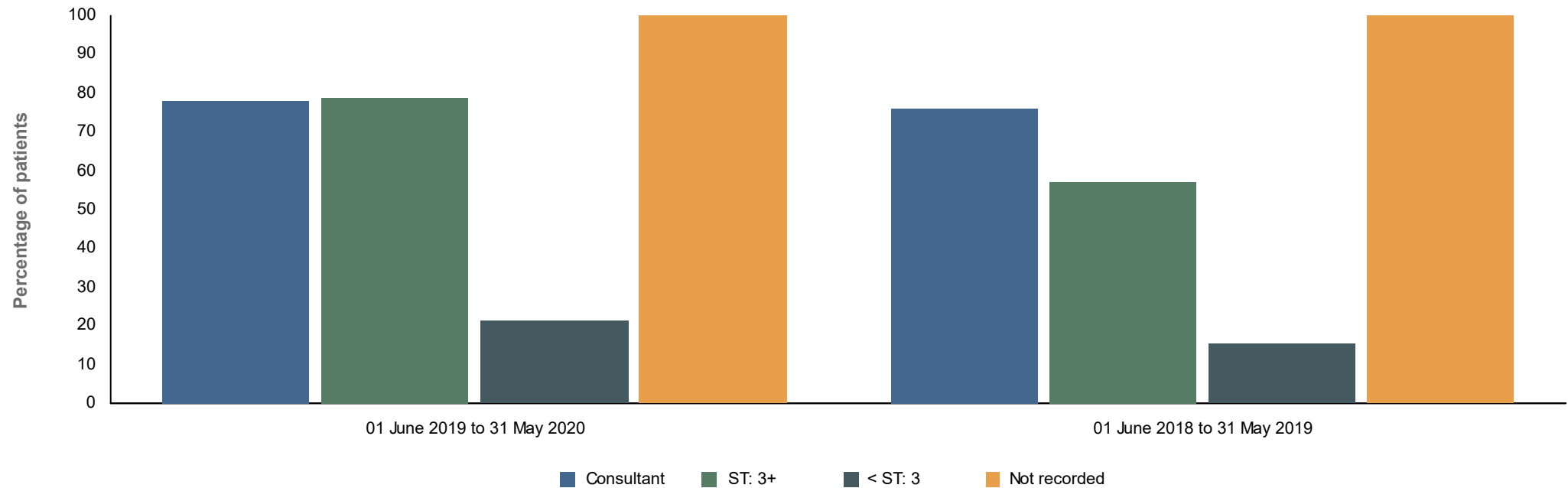
Sussex Trauma Network

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 June 2019 to 31 May 2020						
All patients	953	76 (8.0%)	28.8%	138 (14.5%)	57 (6.0%)	682 (71.6%)
ISS > 15 patients	293	28 (9.6%)	42%	51 (17.4%)	22 (7.5%)	192 (65.5%)
Trauma team activated	71	40 (56.3%)	80%	24 (33.8%)	1 (1.4%)	6 (8.5%)
Trauma team not activated	882	36 (4.1%)	12.4%	114 (12.9%)	56 (6.3%)	676 (76.6%)
01 June 2018 to 31 May 2019						
All patients	1091	93 (8.5%)	29.8%	110 (10.1%)	40 (3.7%)	848 (77.7%)
ISS > 15 patients	309	34 (11.0%)	43.9%	31 (10.0%)	11 (3.6%)	233 (75.4%)
Trauma team activated	94	49 (52.1%)	79.7%	27 (28.7%)	4 (4.3%)	14 (14.9%)
Trauma team not activated	997	44 (4.4%)	12.7%	83 (8.3%)	36 (3.6%)	834 (83.7%)



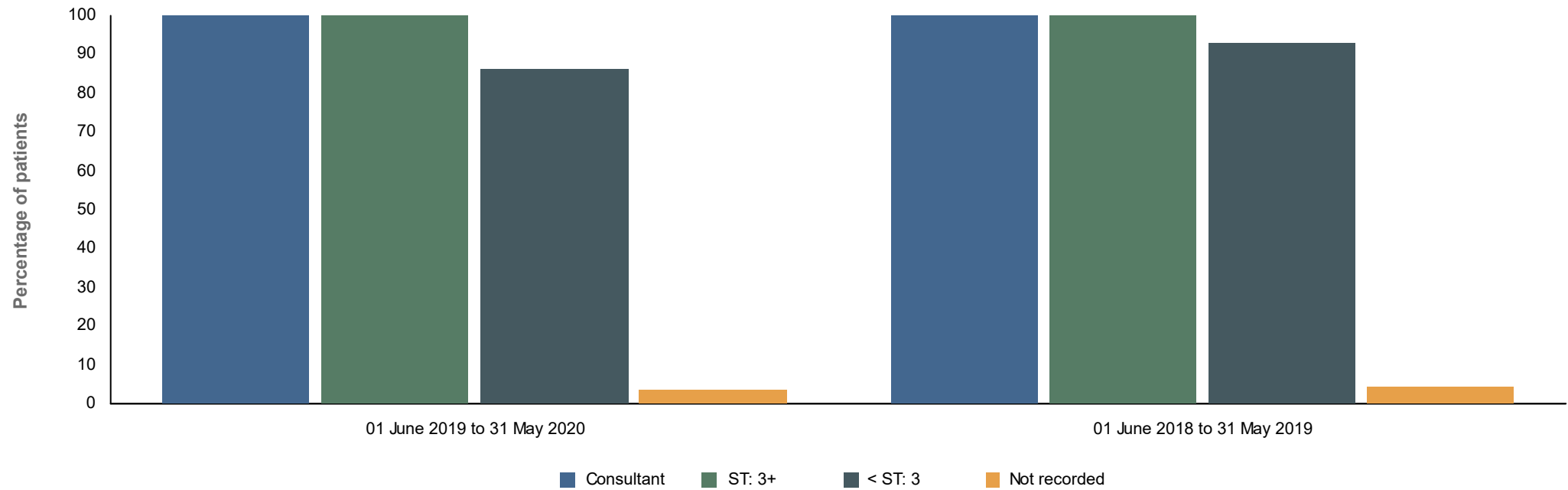
Sussex Trauma Network

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 June 2019 to 31 May 2020						
All patients	933	168 (18.0%)	44.7%	489 (52.4%)	265 (28.4%)	11 (1.2%)
ISS > 15 patients	285	54 (18.9%)	56.7%	155 (54.4%)	73 (25.6%)	3 (1.1%)
Trauma team activated	71	47 (66.2%)	84%	23 (32.4%)	1 (1.4%)	0 (0.0%)
Trauma team not activated	862	121 (14.0%)	31.8%	466 (54.1%)	264 (30.6%)	11 (1.3%)
01 June 2018 to 31 May 2019						
All patients	1067	221 (20.7%)	46.4%	512 (48.0%)	321 (30.1%)	13 (1.2%)
ISS > 15 patients	296	78 (26.4%)	59.1%	139 (47.0%)	74 (25.0%)	5 (1.7%)
Trauma team activated	94	54 (57.4%)	85.8%	35 (37.2%)	5 (5.3%)	0 (0.0%)
Trauma team not activated	973	167 (17.2%)	32.5%	477 (49.0%)	316 (32.5%)	13 (1.3%)



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 June 2019 to 31 May 2020					
Conquest Hospital	375	34 (9.1%)	32 (8.5%)	7 (1.9%)	302 (80.5%)
Eastbourne District General Hospital	181	1 (0.6%)	2 (1.1%)	0 (0.0%)	178 (98.3%)
Royal Sussex County Hospital	779	621 (79.7%)	19 (2.4%)	0 (0.0%)	139 (17.8%)
St. Richards Hospital	98	1 (1.0%)	2 (2.0%)	4 (4.1%)	91 (92.9%)
Worthing Hospital	299	2 (0.7%)	7 (2.3%)	3 (1.0%)	287 (96.0%)
01 June 2018 to 31 May 2019					
Conquest Hospital	354	40 (11.3%)	19 (5.4%)	3 (0.8%)	292 (82.5%)
Eastbourne District General Hospital	184	1 (0.5%)	0 (0.0%)	0 (0.0%)	183 (99.5%)
Royal Sussex County Hospital	808	534 (66.1%)	20 (2.5%)	5 (0.6%)	249 (30.8%)
St. Richards Hospital	257	6 (2.3%)	3 (1.2%)	2 (0.8%)	246 (95.7%)
Worthing Hospital	296	1 (0.3%)	7 (2.4%)	1 (0.3%)	287 (97.0%)

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 June 2019 to 31 May 2020					
Conquest Hospital	375	48 (12.8%)	72 (19.2%)	32 (8.5%)	223 (59.5%)
Eastbourne District General Hospital	181	4 (2.2%)	11 (6.1%)	8 (4.4%)	158 (87.3%)
Royal Sussex County Hospital	779	637 (81.8%)	32 (4.1%)	8 (1.0%)	102 (13.1%)
St. Richards Hospital	98	12 (12.2%)	10 (10.2%)	7 (7.1%)	69 (70.4%)
Worthing Hospital	299	12 (4.0%)	45 (15.1%)	10 (3.3%)	232 (77.6%)
01 June 2018 to 31 May 2019					
Conquest Hospital	354	48 (13.6%)	50 (14.1%)	16 (4.5%)	240 (67.8%)
Eastbourne District General Hospital	184	6 (3.3%)	3 (1.6%)	6 (3.3%)	169 (91.8%)
Royal Sussex County Hospital	808	573 (70.9%)	45 (5.6%)	24 (3.0%)	166 (20.5%)
St. Richards Hospital	257	27 (10.5%)	22 (8.6%)	14 (5.4%)	194 (75.5%)
Worthing Hospital	296	12 (4.1%)	35 (11.8%)	4 (1.4%)	245 (82.8%)

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 June 2019 to 31 May 2020					
Conquest Hospital	373	84 (22.5%)	177 (47.5%)	110 (29.5%)	2 (0.5%)
Eastbourne District General Hospital	175	21 (12.0%)	85 (48.6%)	65 (37.1%)	4 (2.3%)
Royal Sussex County Hospital	769	657 (85.4%)	59 (7.7%)	51 (6.6%)	2 (0.3%)
St. Richards Hospital	96	21 (21.9%)	43 (44.8%)	31 (32.3%)	1 (1.0%)
Worthing Hospital	289	42 (14.5%)	184 (63.7%)	59 (20.4%)	4 (1.4%)
01 June 2018 to 31 May 2019					
Conquest Hospital	348	83 (23.9%)	136 (39.1%)	128 (36.8%)	1 (0.3%)
Eastbourne District General Hospital	179	26 (14.5%)	64 (35.8%)	83 (46.4%)	6 (3.4%)
Royal Sussex County Hospital	803	617 (76.8%)	87 (10.8%)	91 (11.3%)	8 (1.0%)
St. Richards Hospital	252	67 (26.6%)	111 (44.0%)	70 (27.8%)	4 (1.6%)
Worthing Hospital	288	45 (15.6%)	201 (69.8%)	40 (13.9%)	2 (0.7%)

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 June 2019 to 31 May 2020						
All Patients	649	152 (80 - 256)	45 (29 - 68)	737 (308 - 933)	103 (40 - 231)	206 (76 - 714)
AIS 3+ Head Injury	249	132 (67 - 214)	40 (27 - 61)	803 (365 - 955)	79 (34 - 167)	203 (74 - 696)
NICE head injury criteria	21	49 (34 - 68)	39 (26 - 54)	660 (482 - 1175)	32 (21 - 54)	240 (88 - 717)
01 June 2018 to 31 May 2019						
All Patients	682	161 (77 - 244)	51 (35 - 79)	803 (478 - 970)	97 (37 - 221)	203 (71 - 716)
AIS 3+ Head Injury	274	142 (75 - 211)	44 (32 - 77)	714 (518 - 890)	75 (32 - 166)	207 (70 - 706)
NICE head injury criteria	19	102 (45 - 238)	43 (36 - 78)	N/A	31 (20 - 52)	237 (81 - 686)

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 June 2019 to 31 May 2020

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	253	253	121 (65 - 242)	43 (29 - 61)	770 (421 - 961)
Eastbourne District General Hospital	139	139	146 (90 - 250)	45 (31 - 66)	709 (308 - 910)
Royal Sussex County Hospital	660	658	45 (24 - 90)	81 (54 - 121)	602 (293 - 832)
St. Richards Hospital	67	67	152 (71 - 296)	61 (39 - 106)	N/A
Worthing Hospital	190	190	195 (113 - 278)	44 (29 - 68)	N/A

01 June 2018 to 31 May 2019

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	223	223	126 (55 - 232)	43 (33 - 60)	782 (505 - 1006)
Eastbourne District General Hospital	125	125	183 (102 - 273)	62 (35 - 79)	842 (597 - 937)
Royal Sussex County Hospital	683	682	42 (20 - 129)	77 (53 - 119)	603 (262 - 834)
St. Richards Hospital	162	162	157 (74 - 250)	54 (40 - 82)	N/A
Worthing Hospital	172	172	175 (110 - 227)	60 (38 - 88)	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 June 2019 to 31 May 2020

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	70	70	113 (69 - 211)	40 (27 - 62)	814 (482 - 936)
Eastbourne District General Hospital	74	74	126 (69 - 197)	38 (29 - 54)	738 (372 - 955)
Royal Sussex County Hospital	221	220	38 (22 - 57)	76 (51 - 123)	580 (284 - 812)
St. Richards Hospital	24	24	118 (57 - 209)	42 (27 - 56)	N/A
Worthing Hospital	81	81	151 (80 - 232)	43 (26 - 65)	N/A

01 June 2018 to 31 May 2019

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	79	79	115 (50 - 186)	42 (29 - 56)	627 (518 - 816)
Eastbourne District General Hospital	71	71	170 (82 - 273)	42 (28 - 78)	850 (706 - 890)
Royal Sussex County Hospital	216	215	35 (18 - 73)	74 (51 - 112)	637 (309 - 871)
St. Richards Hospital	55	55	147 (86 - 231)	45 (33 - 78)	N/A
Worthing Hospital	69	69	142 (103 - 194)	46 (36 - 77)	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 June 2019 to 31 May 2020

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	8	8	46 (25 - 49)	29 (26 - 38)	518 (518 - 803)
Eastbourne District General Hospital	7	7	49 (44 - 115)	49 (42 - 66)	955 (955 - 1331)
Royal Sussex County Hospital	60	60	21 (16 - 30)	67 (52 - 118)	526 (169 - 759)
St. Richards Hospital	2	2	N/A	N/A	N/A
Worthing Hospital	4	4	N/A	N/A	N/A

01 June 2018 to 31 May 2019

Hospital	n	n (CT with date and time rec)	Median time to (mins)*		
			CT	Provisional report	Final report
Conquest Hospital	5	5	41 (41 - 164)	N/A	N/A
Eastbourne District General Hospital	7	7	87 (73 - 238)	N/A	N/A
Royal Sussex County Hospital	56	55	19 (11 - 31)	75 (50 - 112)	705 (504 - 917)
St. Richards Hospital	3	3	N/A	N/A	N/A
Worthing Hospital	4	4	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 June 2019 to 31 May 2020			
All Patients	4	N/A	586 (210 - 1050)
Limb operations	3	N/A	1028 (684 - 1242)
Skin operations	1	N/A	796 (375 - 1088)
01 June 2018 to 31 May 2019			
All Patients	9	1028 (1010 - 1270)	515 (185 - 1005)
Spinal operations	1	N/A	800 (433 - 1148)
Abdominal operations	1	N/A	161 (93 - 320)
Limb operations	1	N/A	986 (602 - 1237)
Skin operations	6	1019 (1010 - 1270)	793 (367 - 1067)

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

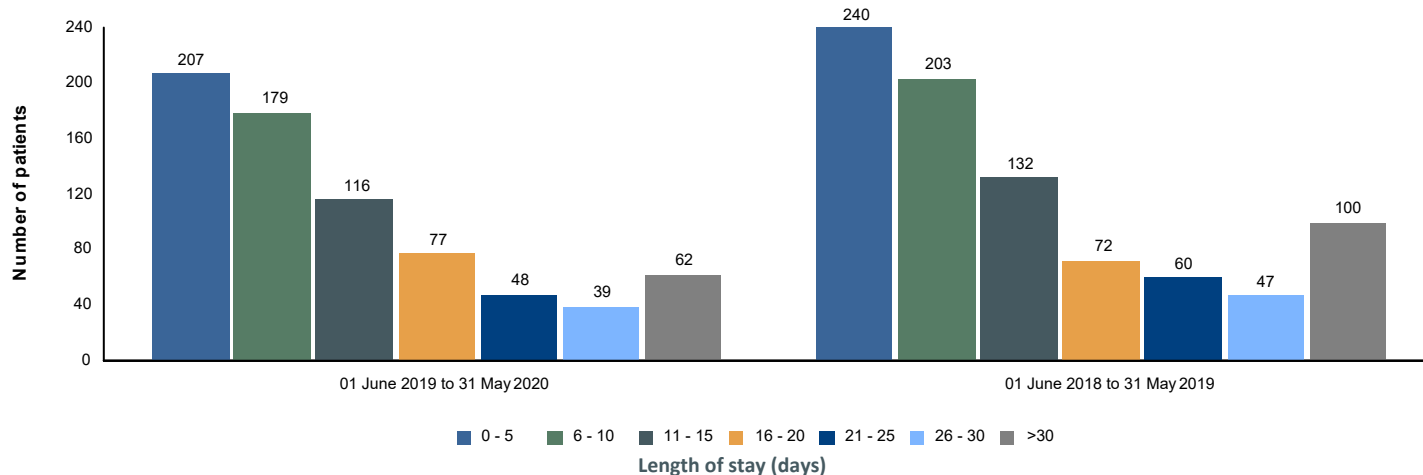
* N/A means there are not enough cases to calculate the median and interquartile range

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

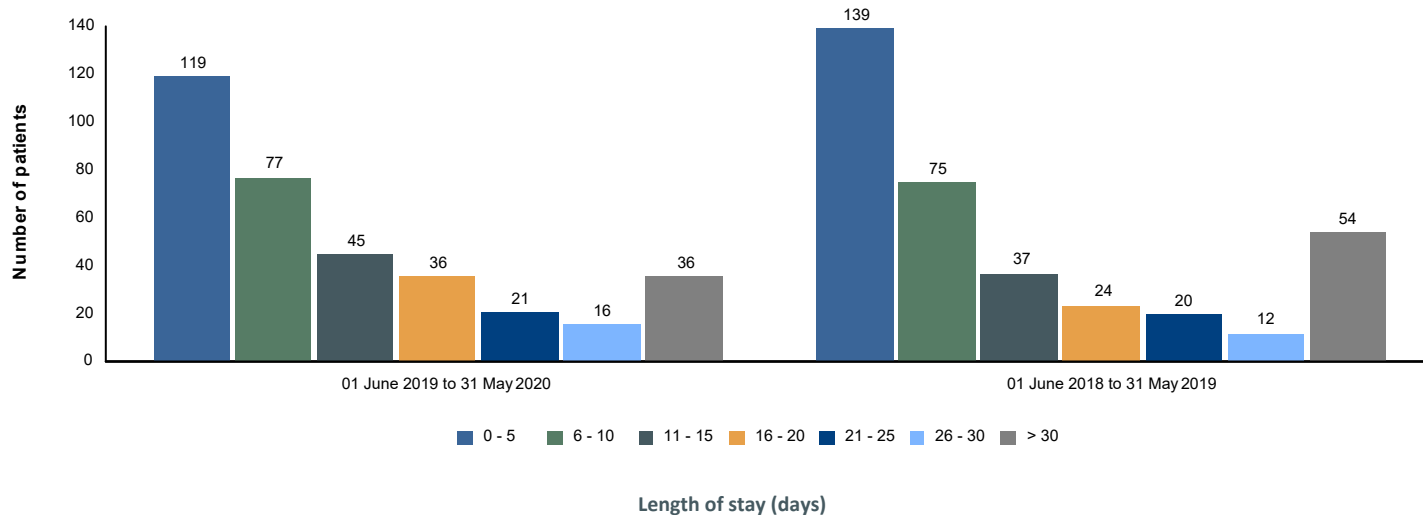
Date range	All patients			ISS <= 15			ISS > 15		
	n	Median LOS	Total days	n	Median LOS	Total days	n	Median LOS	Total days
01 June 2019 to 31 May 2020	1078	10 (5 - 18)	14635	728	10 (5 - 18)	9817	350	9 (4 - 18)	4818
TARN average		8 (4 - 16)			8 (5 - 15)			8 (4 - 17)	
01 June 2018 to 31 May 2019	1215	10 (4 - 20)	18528	854	10 (5 - 20)	12880	361	8 (3 - 19)	5648
TARN average		8 (4 - 16)			8 (5 - 16)			8 (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

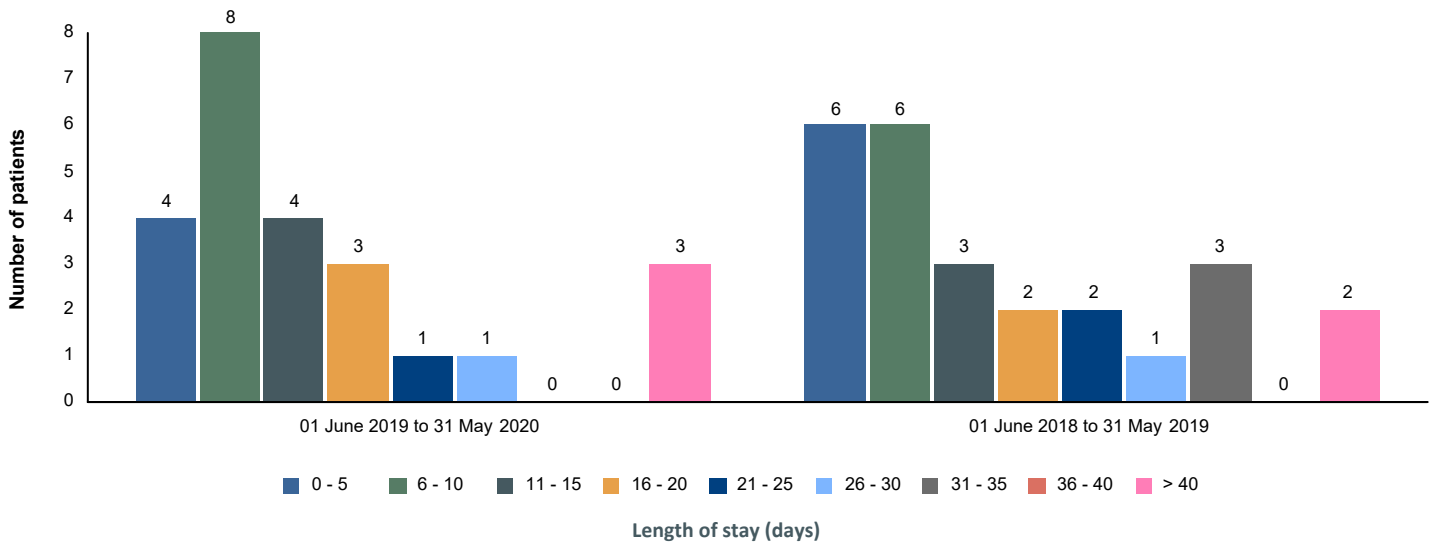


Sussex Trauma Network
Critical Care Information

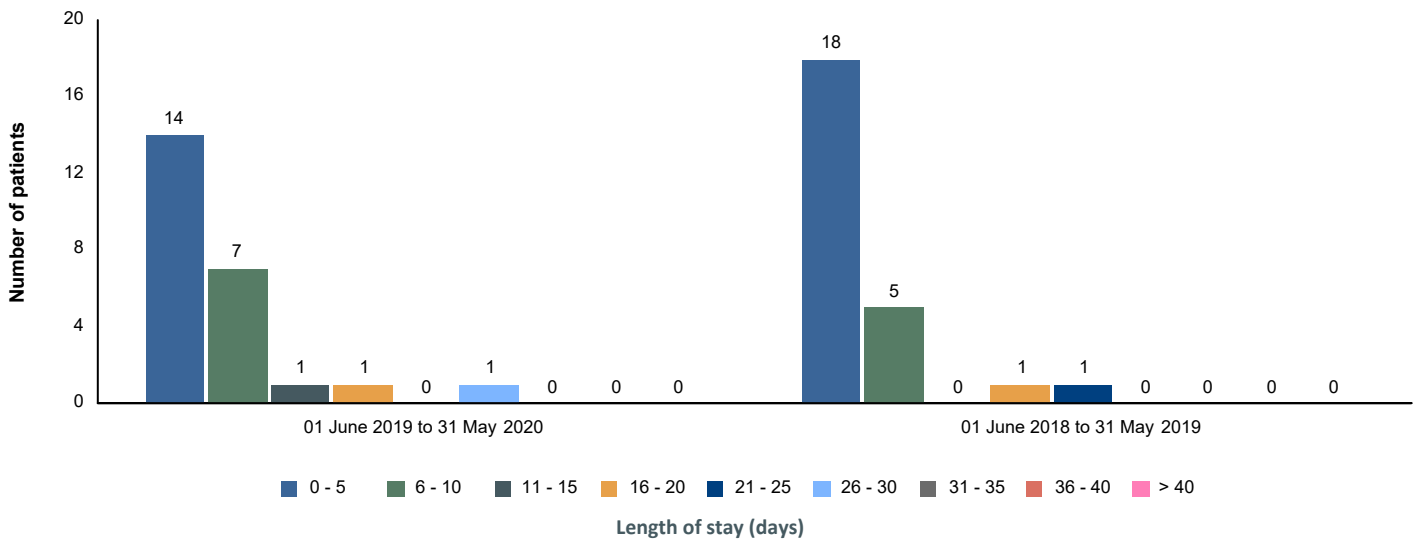
Trauma Unit data only

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 June 2019 to 31 May 2020	24	10 (6 - 18)	4 (2 - 9)	1 (4.2%)	0 (0.0%)	N/A
TARN average		12 (5 - 24)	3 (1 - 7)	6.1%	3.8%	0.3%
01 June 2018 to 31 May 2019	25	11 (6 - 24)	3 (2 - 6)	2 (8.0%)	0 (0.0%)	N/A
TARN average		12 (5 - 24)	3 (1 - 7)	6.0%	3.5%	0.2%

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 June 2019 to 31 May 2020						
Conquest Hospital	19	11 (9 - 20)	4 (2 - 9)	1 (5.3%)	0 (0.0%)	N/A
Eastbourne District General Hospital	1	58	20	0 (0.0%)	N/A	N/A
Royal Sussex County Hospital	212	13 (6 - 26)	4 (2 - 10)	8 (3.8%)	0 (0.0%)	N/A
St. Richards Hospital	1	6	2	0 (0.0%)	N/A	N/A
Worthing Hospital	3	8	3	0 (0.0%)	N/A	N/A
01 June 2018 to 31 May 2019						
Conquest Hospital	12	15 (6 - 23)	2 (1 - 5)	2 (16.7%)	0 (0.0%)	N/A
Eastbourne District General Hospital	7	7 (7 - 24)	3 (2 - 8)	0 (0.0%)	N/A	N/A
Royal Sussex County Hospital	210	13 (7 - 25)	5 (2 - 9)	6 (2.9%)	0 (0.0%)	N/A
St. Richards Hospital	4	7	3	0 (0.0%)	N/A	N/A
Worthing Hospital	2	39	5	0 (0.0%)	N/A	N/A

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

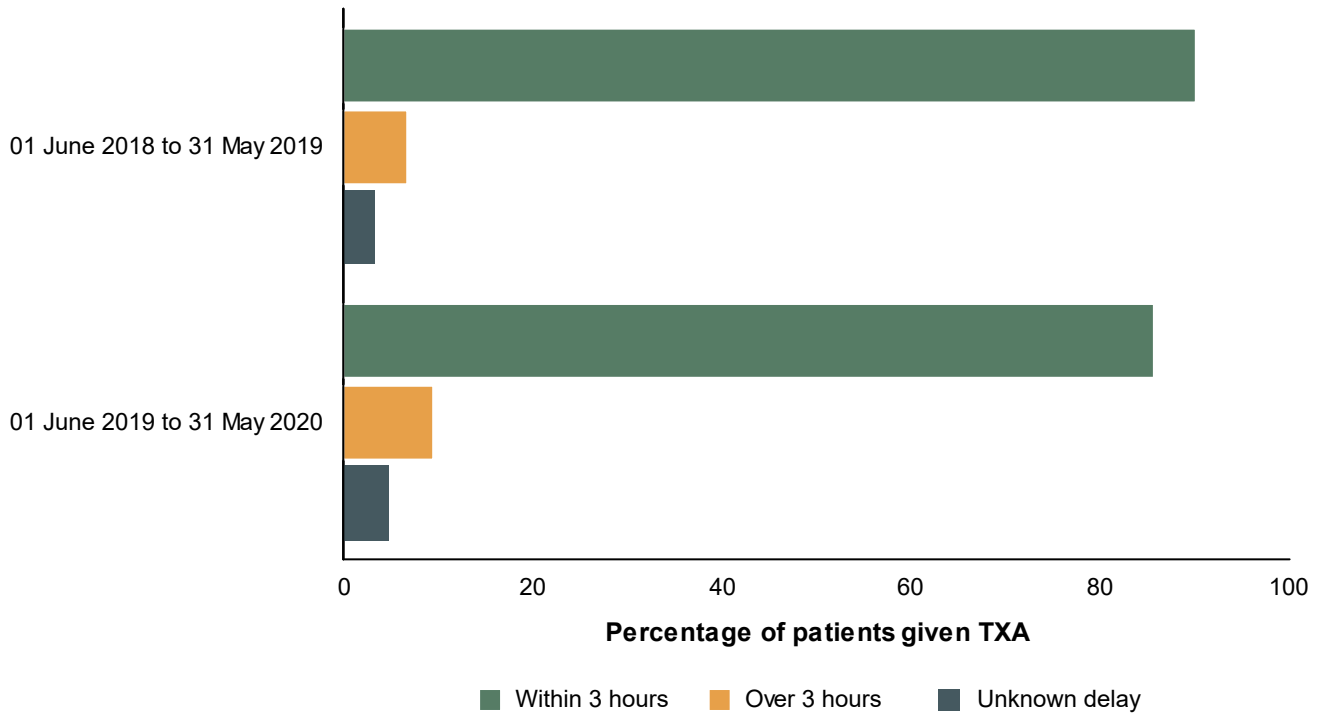
Sussex Trauma Network

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 June 2018 to 31 May 2019	34	30	27 (90.0%)	2 (6.7%)	1 (3.3%)
TARN average			88.5%	7%	4.5%
01 June 2019 to 31 May 2020	23	21	18 (85.7%)	2 (9.5%)	1 (4.8%)
TARN average			88.1%	9.3%	2.6%



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 June 2019 to 31 May 2020				
10	5 (50.0%)	0 (0.0%)	5 (50.0%)	0 (0.0%)
	57.1%	15.3%	41.8%	3.1%
Direct admissions, 01 June 2018 to 31 May 2019				
9	3 (33.3%)	1 (11.1%)	2 (22.2%)	0 (0.0%)
	62.8%	17.4%	45.4%	3.3%

Definitive airway management is defined as the management of an airway using intubation, tracheostomy or cricothyroidotomy. Patient 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 June 2019 to 31 May 2020	
459	294 (64.1%)
	89.3%
Direct admissions, 01 June 2018 to 31 May 2019	
506	107 (21.1%)
	83.6%

Patients are eligible for this standard when they have undergone urgent 3D imaging (CT or MRI within 4 hours of arrival). People who have had urgent 3D imaging for major trauma have a provisional written radiology report within 60 minutes of the scan.

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 June 2019 to 31 May 2020			
28	16 (57.1%)	3 (10.7%)	3 (10.7%)
	70.9%	22.5%	21.2%
Direct admissions, 01 June 2018 to 31 May 2019			
24	12 (50.0%)	6 (25.0%)	6 (23.1%)
	70.9%	22.5%	21.2%

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



TARN

THE TRAUMA AUDIT & RESEARCH NETWORK

Sussex Trauma Network

SECTION II

PATIENTS WITH ORTHOPAEDIC INJURIES



Sussex Trauma Network

Patients meeting the BOAST 4 injury criteria - stabilisation and cover

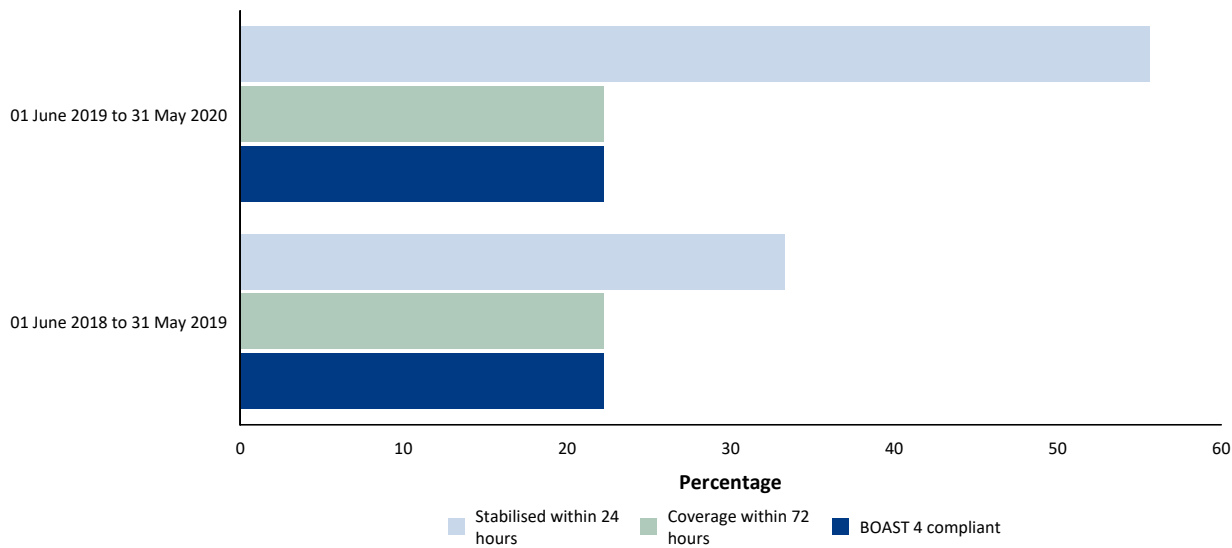
Trauma Unit data only

The measures reported here reflect not only data recorded at this hospital but also others, where the patient was referred from or transferred to.

Patients with open fractures of the tibia, graded as Gustilo IIIB or IIIC are eligible for the BOAST 4 standard.

BOAST 4 compliance

Date range	Total	Stabilisation			Soft tissue cover			BOAST 4 compliant	
		Median hours to operation	Within 24 hours n	%	Median hours to operation	Within 72 hours n	%	n	%
01 June 2019 to 31 May 2020	9	17.9	5	55.6	13.1	2	22.2	2	22.2
01 June 2018 to 31 May 2019	9	13.8	3	33.3	18.4	2	22.2	2	22.2



In order to be BOAST 4 compliant patients need to be stabilised within 24 hours of injury and have soft tissue cover within 72 hours of injury.

Sussex Trauma Network

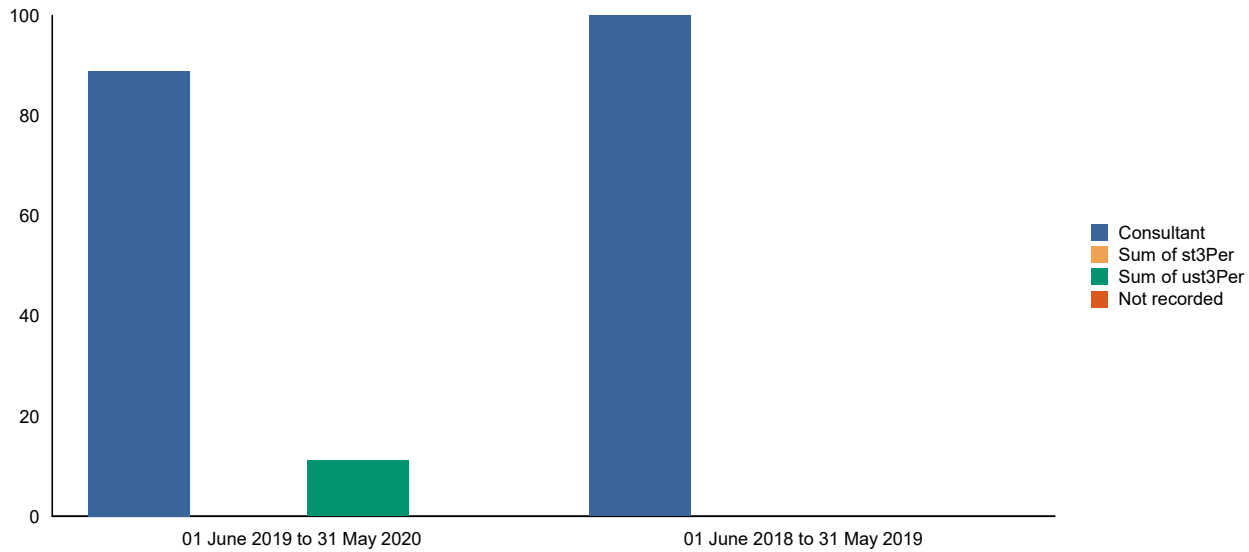
Patients meeting the BOAST 4 injury criteria - grade of most senior surgeon providing stabilisation and cover

Trauma Unit data only

The measures reported here reflect not only data recorded at this hospital but also others, where the patient was referred from or transferred to.

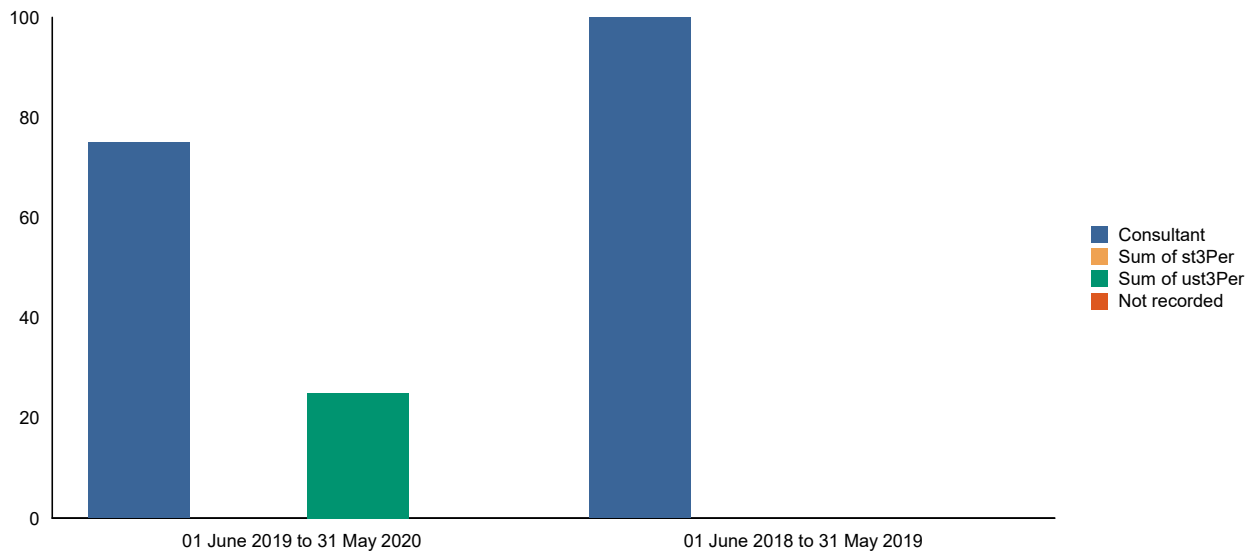
Surgical stabilisation of the fracture

Date range	Operation recorded	Consultant	ST: 3+	< ST: 3	Not Recorded
01 June 2019 to 31 May 2020	9	8 (88.9%)	0 (0.0%)	1 (11.1%)	0 (0.0%)
01 June 2018 to 31 May 2019	4	4 (100.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)



Soft tissue cover of the fracture

Date range	Operation recorded	Consultant	ST: 3+	< ST: 3	Not Recorded
01 June 2019 to 31 May 2020	4	3 (75.0%)	0 (0.0%)	1 (25.0%)	0 (0.0%)
01 June 2018 to 31 May 2019	3	3 (100.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)



Sussex Trauma Network

Patients meeting the BOAST 4 injury criteria

Patients with arrival dates between 01 June 2018 to 31 May 2019

Surgical stabilisation of the fracture

Hospital	Total	Relevant operation recorded		Operation within 24 hours		Median hours to operation
		n	%	n	%	
Conquest Hospital	5	1	20.0	1	20.0	7.0
Royal Sussex County Hospital	29	29	100.0	20	69.0	20.5
St. Richards Hospital	3	2	66.7	2	66.7	18.4
Worthing Hospital	1	1	100.0	0	0.0	

Soft tissue cover of the fracture

Hospital	Total	Relevant operation recorded		Operation within 72 hours		Median hours to operation
		n	%	n	%	
Conquest Hospital	5	0	0.0	0	0.0	
Royal Sussex County Hospital	29	21	72.4	16	55.2	26.7
St. Richards Hospital	3	2	66.7	2	66.7	18.4
Worthing Hospital	1	1	100.0	0	0.0	

Patients with arrival dates between 01 June 2019 to 31 May 2020

Surgical stabilisation of the fracture

Hospital	Total	Relevant operation recorded		Operation within 24 hours		Median hours to operation
		n	%	n	%	
Conquest Hospital	4	4	100.0	3	75.0	18.1
Royal Sussex County Hospital	29	27	93.1	17	58.6	14.4
St. Richards Hospital	2	2	100.0	1	50.0	13.1
Worthing Hospital	3	3	100.0	1	33.3	18.4

Soft tissue cover of the fracture

Hospital	Total	Relevant operation recorded		Operation within 72 hours		Median hours to operation
		n	%	n	%	
Conquest Hospital	4	1	25.0	0	0.0	131.8
Royal Sussex County Hospital	29	17	58.6	8	27.6	21.1
St. Richards Hospital	2	1	50.0	1	50.0	13.1
Worthing Hospital	3	2	66.7	1	33.3	11.1

Sussex Trauma Network

Patients with severe (AIS 4+) pelvic fractures

Combined MTC and Trauma Unit data

Transfer Status	n	Imaging	Imaging date & time recorded	Median time to imaging (mins)	Interquartile range	Operation	Operation date & time recorded	Median time to operation (mins)	Interquartile range
01 June 2019 to 31 May 2020									
Direct Admissions	62	60	59	52	27 - 356	21	21	2405	1021 - 8182
Transfers In	23	11	10	67	59 - 145	8	7	1524	886 - 6626
01 June 2018 to 31 May 2019									
Direct Admissions	59	59	59	55	18 - 197	21	19	2332	379 - 3740
Transfers In	15	8	8	201	105 - 218	5	5	1861	1861 - 2909

Imaging includes CT scan, CT scan + contrast, MRI scan and AP & Judet Radiograph

Sussex Trauma Network

Patients with severe (AIS 4+) pelvic fractures

Hospital	n	Imaging	Imaging date & time recorded	Median time to imaging (mins)	Interquartile range	Operation	Operation date & time recorded	Median time to operation (mins)	Interquartile range
01 June 2019 to 31 May 2020									
Direct Admissions									
Conquest Hospital	14	14	14	98	46 - 250	1	1	2405	
Eastbourne District General Hospital	3	3	3	2244		0	0		
Royal Sussex County Hospital	33	33	33	29	16 - 78	20	20	2728	915 - 8182
St. Richards Hospital	4	2	2	819		0	0		
Worthing Hospital	8	8	7	210	182 - 1152	0	0		
Transfers In									
Conquest Hospital	4	1	0			1	0		
Eastbourne District General Hospital	2	0	0			0	0		
Royal Sussex County Hospital	15	10	10	67	59 - 145	7	7	1524	886 - 6626
St. Richards Hospital	2	0	0			0	0		
01 June 2018 to 31 May 2019									
Direct Admissions									
Conquest Hospital	5	5	5	63	63 - 151	1	1	3740	
Royal Sussex County Hospital	43	43	43	25	16 - 148	20	18	1796	379 - 3002
St. Richards Hospital	5	5	5	164	164 - 197	0	0		
Worthing Hospital	6	6	6	566	535 - 2530	0	0		
Transfers In									
Royal Sussex County Hospital	11	8	8	201	105 - 218	5	5	1861	1861 - 2909
St. Richards Hospital	3	0	0			0	0		
Worthing Hospital	1	0	0			0	0		

Sussex Trauma Network

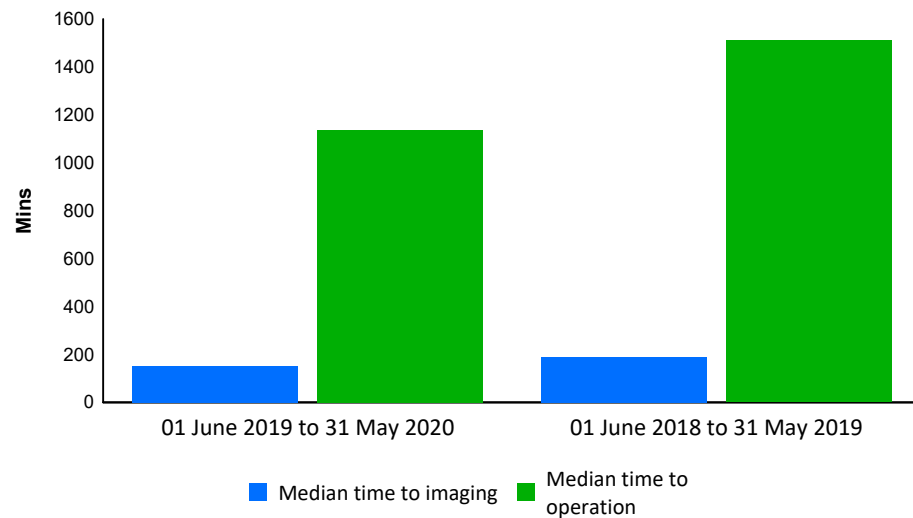
Patients with open fractures of the limbs

The measures reported here reflect not only data recorded at this hospital but also others, where the patient was referred from or transferred to.

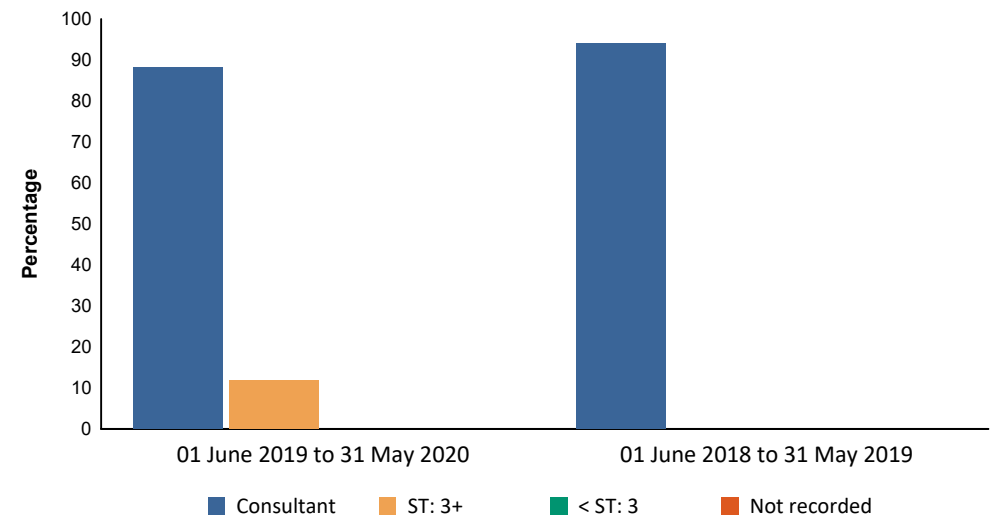
Trauma Unit data only

Date range	Number of patients	Imaging with date & time recorded	Median mins to imaging (IQR)	Operation recorded	Operation with date & time recorded	Median mins to operation (IQR)	Grade of surgeon performing earliest operation			
							Consultant	ST: 3+	< ST: 3	Not recorded
01 June 2019 to 31 May 2020	32	26	153 (132 - 206)	17	15	1135 (991 - 2572)	15 (88.2%)	2 (11.8%)	0 (0%)	0 (0%)
01 June 2018 to 31 May 2019	30	25	189 (146 - 227)	17	11	1510 (1300 - 7120)	16 (94.1%)	0 (0%)	0 (0%)	0 (0%)

Time to scanning & operations



Grade of surgeon performing earliest operation



Imaging includes CT scan, CT scan + contrast, MRI scan and AP & Judet Radiograph

Sussex Trauma Network

Patients with open fractures of the limbs

01 June 2019 to 31 May 2020

Hospital	Number of patients	Imaging with date & time recorded	Median mins to imaging (IQR)	Operation recorded	Operation with date & time recorded	Median mins to operation (IQR)	Grade of surgeon performing earliest operation			
							Consultant	ST: 3+	< ST: 3	Not recorded
Conquest Hospital	15	15	152 (112 - 199)	10	10	1225 (991 - 2572)	9 (90%)	1 (10%)	0 (0%)	0 (0%)
Eastbourne District General Hospital	1	1	206	1	1	1135	1 (100%)	0 (0%)	0 (0%)	0 (0%)
Royal Sussex County Hospital	83	56	158 (123 - 230)	45	31	1367 (900 - 6941)	42 (93.3%)	2 (4.4%)	1 (2.2%)	0 (0%)
St. Richards Hospital	4	3	142	2	2	1060	2 (100%)	0 (0%)	0 (0%)	0 (0%)
Worthing Hospital	12	7	154 (151 - 570)	4	2	2682	3 (75%)	1 (25%)	0 (0%)	0 (0%)

Sussex Trauma Network

Patients with open fractures of the limbs

01 June 2018 to 31 May 2019

Hospital	Number of patients	Imaging with date & time recorded	Median mins to imaging (IQR)	Operation recorded	Operation with date & time recorded	Median mins to operation (IQR)	Grade of surgeon performing earliest operation			
							Consultant	ST: 3+	< ST: 3	Not recorded
Conquest Hospital	17	13	178 (146 - 214)	13	9	1510 (1390 - 7120)	13 (100%)	0 (0%)	0 (0%)	0 (0%)
Eastbourne District General Hospital	2	2	157	2	1	1300	2 (100%)	0 (0%)	0 (0%)	0 (0%)
Royal Sussex County Hospital	93	83	189 (147 - 263)	36	30	1425 (1073 - 9308)	33 (91.7%)	2 (5.6%)	1 (2.8%)	0 (0%)
St. Richards Hospital	6	6	212 (212 - 227)	1	0		0 (0%)	0 (0%)	0 (0%)	0 (0%)
Worthing Hospital	5	4	207	1	1	3110	1 (100%)	0 (0%)	0 (0%)	0 (0%)