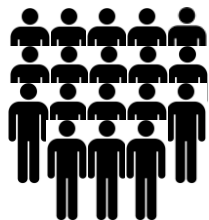


Major Trauma Care Pack November-December 2017

Produced by the Clinical Audit & Research Unit

For queries, please contact Stephen Adekola, Clinical Data Assistant on 020 7783 2504

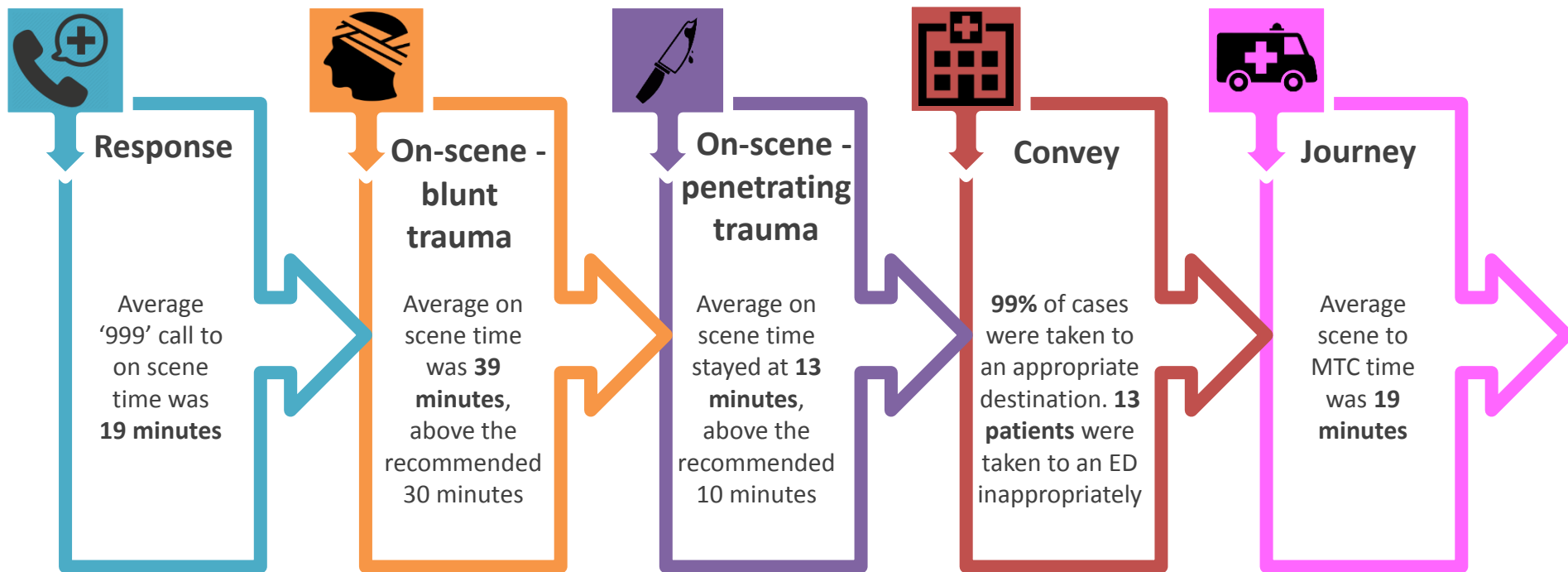
Major Trauma – November & December 2017*



We attended **1089 patients** in November & December 2017
 This is an average of **18 patients** per day



74 patients were conveyed to a major trauma centre (MTC) when they should have been taken to a Trauma Unit as they did not trigger on the major trauma tool



Response (minutes)

Category	%	Mean	90th centile
C1	34	8	14
C2	51	17	32
C3	14	49	141
C4	2	48	82

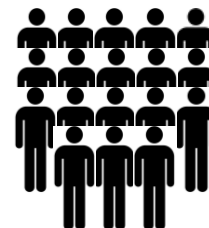
Actions

- Further efforts needs to be made to reduce on-scene time
- Read the major trauma decision tool carefully to check that the criteria have been fully met
- Consultation with Trauma Paramedic within EOC if there is any significant crew concern and the patient does not fit the tool criteria

* Post Ambulance Response Programme implementation

1. Number of patients*

	Group Station	Major trauma patients ~	Over-triaged patients ^
NE	Homerton	68	7
	Newham	83	11
	Romford	36	1
	North East	187	19
NC	Camden	77	6
	Edmonton	77	5
	Friern Barnet	25	2
	North Central	179	13
NW	Brent	85	3
	Fulham	70	2
	Hanwell	68	3
	Hillingdon	30	2
	Westminster	33	3
	North West	286	13
SE	Bromley	58	2
	Deptford	120	8
	Greenwich	59	4
	South East	237	14
SW	Croydon	34	2
	New Malden	28	2
	St Helier	33	4
	Wimbledon	44	3
	South West	139	11
	PAS & VAS	21	4
	Other LAS	40	0
	LAS-Wide	1089	74



18
patients
per day

Key:

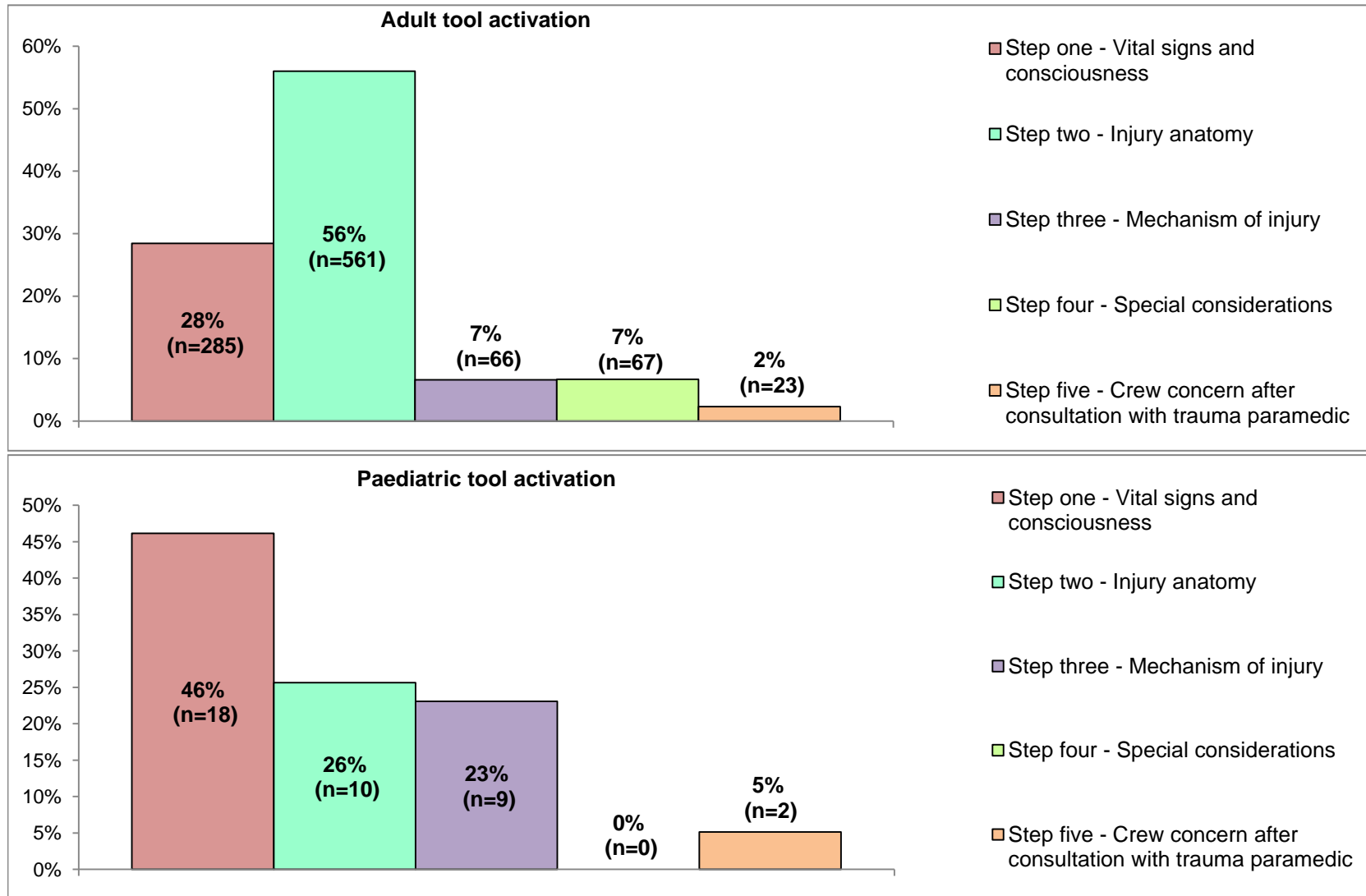
* Any patients who had a cardiac arrest as a result of major trauma and were recognised life extinct at the scene or did not have return of spontaneous circulation are not included in this report. Please refer to the Cardiac Care Pack for data on the patients who were treated following a cardiac arrest due to trauma.

~ Patients met the criteria of the current version of either the adult or paediatric major trauma decision tree, or were assessed by HEMS or BASICS doctors as requiring treatment at a major trauma centre (MTC).

^ Patients were taken to a MTC instead of the nearest trauma unit (emergency department that accepts trauma) but PRF documentation suggested that they did not meet the criteria from the major trauma decision tree.

Data within this report is correct at time of publication.

2. Breakdown of major trauma decision tool activation*



3. Conveyance

	Group Station	Number of Patients	Major trauma centre appropriate ^		Trauma unit (A&E) *			
					Appropriate		Inappropriate	
			n	%	n	%	n	%
NE	Homerton	68	67	99%	0	0%	1	1%
	Newham	83	80	96%	0	0%	3	4%
	Romford	36	35	97%	0	0%	1	3%
	North East	187	182	97%	0	0%	5	3%
NC	Camden	77	76	99%	0	0%	1	1%
	Edmonton	77	77	100%	0	0%	0	0%
	Friern Barnet	25	25	100%	0	0%	0	0%
	North Central	179	178	99%	0	0%	1	1%
NW	Brent	85	82	96%	0	0%	3	4%
	Fulham	70	69	99%	0	0%	1	1%
	Hanwell	68	67	99%	0	0%	1	1%
	Hillingdon	30	30	100%	0	0%	0	0%
	Westminster	33	33	100%	0	0%	0	0%
		North West	286	281	98%	0	0%	5
SE	Bromley	58	57	98%	0	0%	1	2%
	Deptford	120	120	100%	0	0%	0	0%
	Greenwich	59	59	100%	0	0%	0	0%
		South East	237	236	100%	0	0%	1
SW	Croydon	34	34	100%	0	0%	0	0%
	New Malden	28	28	100%	0	0%	0	0%
	St Helier	33	33	100%	0	0%	0	0%
	Wimbledon	44	43	98%	0	0%	1	2%
		South West	139	138	99%	0	0%	1
	PAS & VAS	21	21	100%	0	0%	0	0%
	Other LAS	40	40	100%	0	0%	0	0%
	LAS-Wide	1089	1076	99%	0	0%	13	1%



99%
appropriately
conveyed

Key:

^ For ease of reporting, this includes patients who were conveyed to a MTC or to trauma units with neurosurgery.

* Conveyance to a trauma unit is normally appropriate if the patient had an unmanageable airway or suffered a cardiac arrest en-route to a MTC and the crew diverted to the nearest A&E.

N.B. Figures may not add up to 100%

4. Ambulance response intervals (average and range in minutes)

Group Station	999 call - Arrive scene*			Time spent on-scene ~		Leave scene - Arrive hospital ^		999 call - Arrive hospital ^		
	Average	Range	90th centile	Average	Range	Average	Range	Average	Range	
NE	Homerton	20	4-251 β	33	38	9-118	13	3-39	70	27-326
	Newham	15	0-91	28	37	7-97	17	5-33	67	28-183
	Romford	22	3-146 β	39	43	10-92	23	7-39	84	40-199
North East		18	0-251	34	39	7-118	17	3-39	71	27-326
NC	Camden	20	1-154 β	48	42	7-135	15	4-32	74	26-252
	Edmonton	23	0-185 β	44	40	10-106	26	8-73 \equiv	85	39-255
	Friern Barnet	15	4-50	33	41	11-89	24	10-37	80	35-136
North Central		21	0-185	45	41	7-135	21	4-73	80	26-255
NW	Brent	25	0-228 β	48	42	6-104	21	8-47	89	21-311
	Fulham	17	0-149 β	33	37	2-80	14	5-75 \equiv	66	16-240
	Hanwell	21	1-361 β	34	35	0-105	26	0-65 $\equiv \mu$	82	2-427
	Hillingdon	23	4-107 β	60	36	12-84	30	16-52	85	37-166
	Westminster	18	0-140 β	25	36	11-59	14	6-31	65	32-196
North West		21	0-361	39	38	0-105	21	0-75	78	2-427
SE	Bromley	20	2-332 β	29	39	7-85	19	6-53	78	37-434
	Deptford	13	0-42	23	37	2-97	11	2-31	59	11-117
	Greenwich	12	3-44	24	42	13-94	23	4-62	77	37-150
South East		15	0-332	26	39	2-97	16	2-62	68	11-434
SW	Croydon	20	3-106 \ddagger	49	38	11-85	20	6-35	75	33-219
	New Malden	17	3-54	34	44	11-90	20	4-32	81	34-153
	St Helier	17	1-72	29	44	13-81	14	8-25	74	30-166
	Wimbledon	14	2-53	30	38	7-127	15	5-50	66	25-196
South West		17	1-106	30	41	7-127	17	4-50	73	25-219
PAS & VAS		42	0-178 β	100	50	23-90	24	6-47	116	58-231
Other LAS		24	2-279 β	30	44	6-108	25	3-78 \equiv	86	22-376
LAS-Wide		19	0-361	36	40	0-135	19	0-78	75	2-434



19 mins



19 mins



Key:

* Zero minute response times are due to running calls.

~ On-scene time is calculated from arrival of first resource to the ambulance leaving scene. More detailed analysis of on-scene times can be found in table 4a.

^ The journey and call to hospital times exclude transferred patients.

β Delays in dispatching a vehicle due to high levels of demand

\ddagger Response time due to call priority based on information provided by caller

\equiv Delay en route to hospital due to HEMS RVP

μ Zero minute time spent on-scene due to incident location outside MTC.

4a. Ambulance on-scene times*

	Group Station	On scene time			Blunt injuries			Penetrating injuries			Other injuries & multiple~		
		n	Median	Range	n	Median	Range	n	Median	Range	n	Median	Range
NE	Homerton	56	28	8-118	39	34	15-118 ‡	14	13	8-31	3	33	28-67
	Newham	60	27	5-87	40	39	12-87	19	13	5-31	1	7	No patient
	Romford	23	32	4-80	16	35	6-80	5	19	4-30	2	34.5	28-41
	North East	139	28	4-118	95	35	6-118	38	14	4-31	6	30.5	7-67
NC	Camden	59	32	5-135	39	41	19-135 #	19	12	5-63	1	83	No patient
	Edmonton	62	33	5-82	36	40	5-82	22	22	8-60	4	28	15-78 #
	Friern Barnet	20	34	2-85	17	36	2-85	3	10	10-14			No patient
	North Central	141	33	2-135	92	39	2-135	44	14	5-63	5	34	15-83
NW	Brent	74	34	4-102	52	48	15-102 #	19	11	4-26	3	34	14-38
	Fulham	63	30	2-74	47	33	7-74	12	12	2-23	4	46	31-57
	Hanwell	57	26	0-105	38	37	0-105 µ#	17	12	1-21	2	21.5	20-23
	Hillingdon	25	26	9-83	17	32	12-83	8	13	9-25			No patient
	Westminster	26	32	1-57	21	33	1-57	4	10	7-22	1	23	No patient
	North West	245	30	0-105	175	35	0-105	60	12	1-26	10	32.5	14-57
SE	Bromley	42	34	7-81	29	38	14-81	9	18	7-38	4	33	24-43
	Deptford	94	29	2-91	60	41	6-91	29	13	2-33	5	23	14-72 #
	Greenwich	42	36	6-86	26	40	15-86	12	17	6-49	4	33	19-66
	South East	178	32	2-91	115	40	6-91	50	15	2-49	13	31	14-72
SW	Croydon	29	37	7-85	22	41	14-85	7	11	7-26			No patient
	New Malden	23	37	10-81	18	40	14-81	3	30	10-38	2	19.5	19-20
	St Helier	25	37	11-81	20	39	15-77	4	15	11-35	1	81	No patient
	Wimbledon	38	32	5-127	29	39	8-127 #	8	16	5-24	1	46	No patient
	South West	115	37	5-127	89	39	8-127	22	15	5-38	4	33	19-81
PAS & VAS		21	49	21-64	20	49	21-64	1	24	No patient			No patient
Other LAS		32	38	5-100	27	44	18-100	4	11	5-34	1	24	No patient
LAS-Wide		871	32	0-135	613	39	0-135	219	13	1-63	39	31	7-83

Blunt



39 mins

>
recommended
30 mins

Penetrating



13 mins

>
recommended
10 mins

Key:

* Measured from the later of either the arrival of the first vehicle with transport capability or crews reaching the patient. Patients who were trapped or attended by a HEMS doctor are excluded.

~ Patients with multiple mechanisms of injury are grouped together with those with other injuries due to the complexity of managing these patients.

‡ Delay on scene due to patient requiring multiple escort

Delay due to difficult extrication

µ Zero min time spent on-scene due to incident taken place at MTC