

Trauma and Injury Intelligence Group Biannual Bulletin

Manchester Royal Infirmary Emergency Department
April 2014 to March 2015

July 2015



Centre for Public Health,
Faculty of Education, Health and Community,
Liverpool John Moores University,
Henry Cotton Campus,
15-21 Webster Street,
Liverpool, L3 2ET

cph.org.uk

0151 231 4500

tiig@ljmu.ac.uk

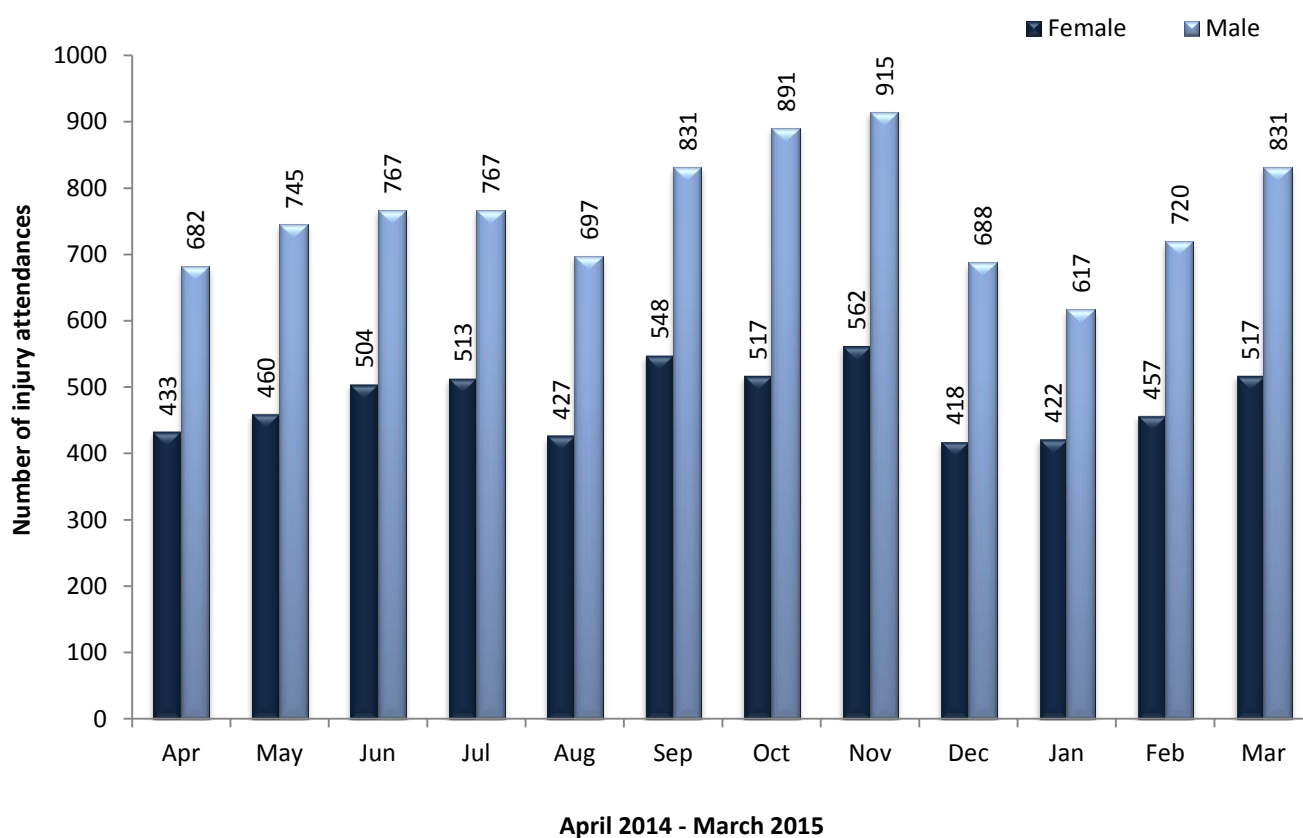
tiig.info

twitter.com/tiig_cph

ALL INJURY ATTENDANCES

This bulletin provides a breakdown of all injury attendances to Manchester Royal Infirmary Emergency Department (ED) between April 2014 and March 2015. During this twelve month period there were 14,930 injury attendances to the ED. The month with the highest number of attendances, calculated as a daily average, was November 2014 (49 per day), while January 2015 had the fewest (34 per day; figure 1). Males accounted for over six in ten (61%) injury attendances (figure 1).

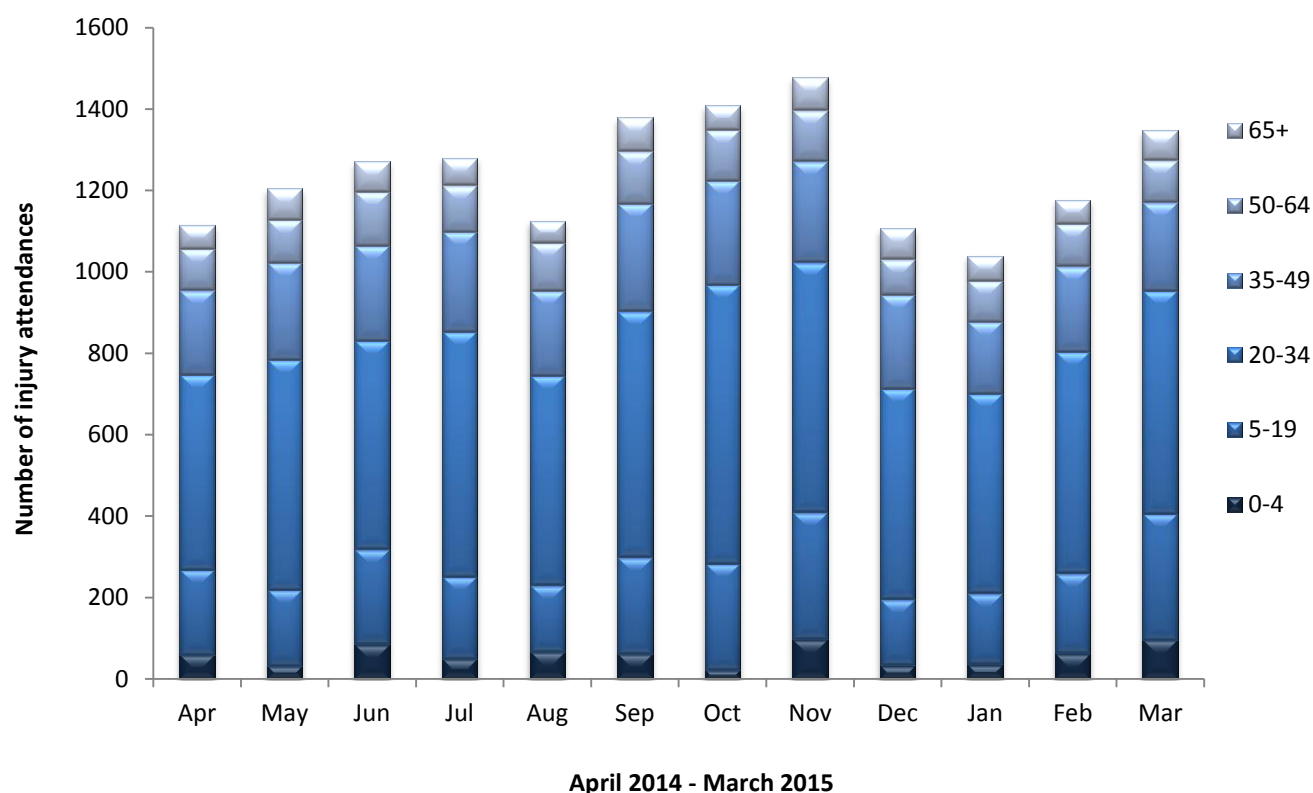
Figure 1: ED injury attendances by gender and month, April 2014 to March 2015[^]



[^] There were less than five records where the gender was unknown; these have been omitted from the chart.

The highest proportion of attendances were for people aged between 20 and 34 years (45%) followed by those aged between 5 and 19 years and 35 to 49 years (both 18%; figure 2).

Figure 2: ED injury attendances by age group and month, April 2014 to March 2015*



* There were less than five records where the age was unknown; these have been omitted from the chart.

The majority (58%) of attendances were recorded as other accidents. Road traffic collisions (RTCs) accounted for 15% of all injury attendances, 13% were sports injuries, 11% were assaults and 3% were sustained by deliberate self-harm (DSH; table 1).

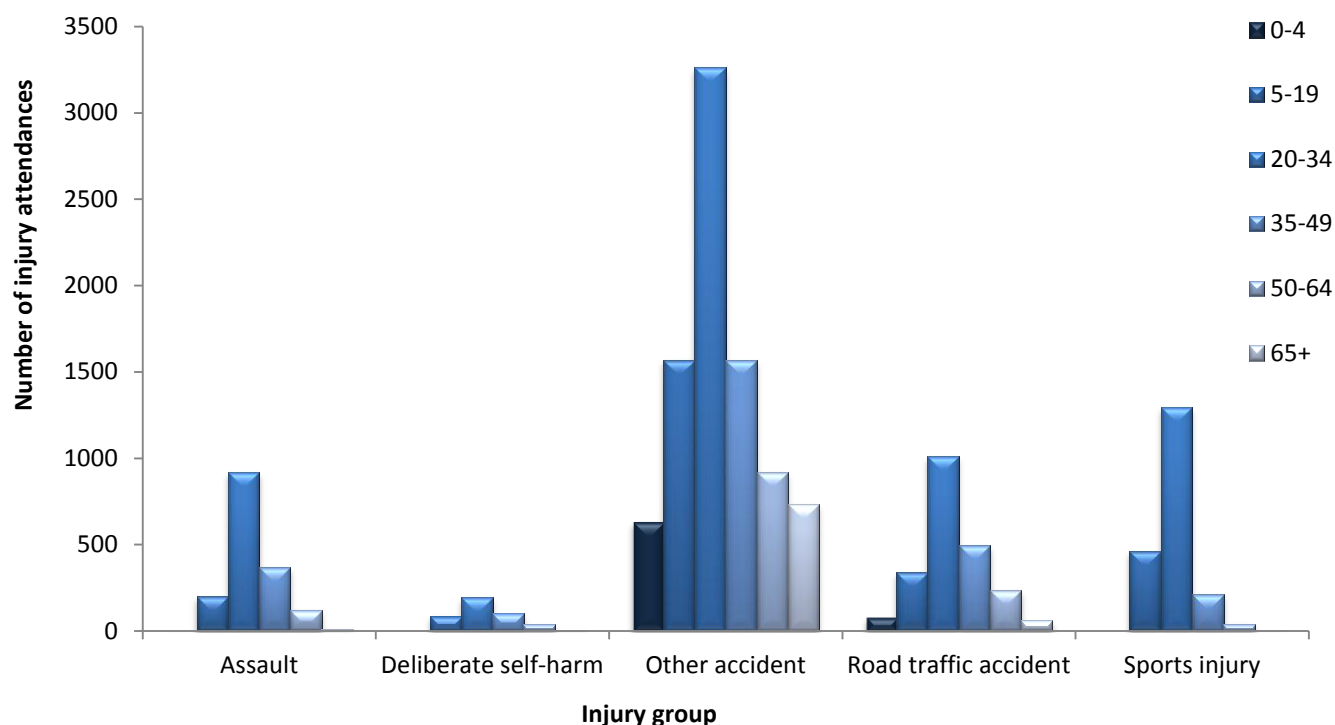
Table 1: ED injury attendances by injury group and month, April 2014 to March 2015[†]

Injury group	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Other accident	649	721	786	745	670	782	753	875	634	568	685	802	8670	58
RTC	159	162	213	203	153	186	231	204	178	170	185	171	2215	15
Sports injury	154	180	121	163	127	243	208	213	104	132	159	202	2006	14
Assault	115	114	129	142	152	122	179	142	161	121	103	131	1611	11
DSH	38	28	22	27	23	46	37	43	29	48	45	42	428	3
Total	1115	1205	1271	1280	1125	1379	1408	1477	1106	1039	1177	1348	14930	100

[†] Due to low numbers, firework injuries and brought in dead have been included in the other accident category (n=<5).

Almost half (46%) of RTC attendees were aged between 20 and 34 years and over six in ten (65%) sports injury attendees were aged between 20 and 34 years (figure 3).

Figure 3: ED injury attendances by age group and injury group, April 2014 to March 2015[†]



[†] Due to low numbers records for firework injury and brought in dead are included within other accident (n <5).

Table 2 shows the arrival method of attendances to Manchester Royal Infirmary ED. Almost eight in ten (79%) arrived by means other than an ambulance, while approximately one in five (21%) arrived by ambulance.

Table 2: ED injury attendances by arrival mode and month, April 2014 to March 2015

Arrival mode	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Other	842	933	996	1041	868	1101	1136	1179	883	806	932	1082	11799	79
Brought in by ambulance	273	272	275	239	257	278	272	298	223	233	245	266	3131	21
Total	1115	1205	1271	1280	1125	1379	1408	1477	1106	1039	1177	1348	14930	100

The disposal of a patient can give an indication of the severity of the injuries sustained. Forty four per cent of attendees were discharged with no follow-up treatment required, over a third (34%) were referred for further treatment and 13% were admitted to hospital (table 3).

Table 3: ED injury attendances by disposal method and month, April 2014 to March 2015

Disposal method	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Discharged	476	530	602	569	504	570	619	623	459	477	539	617	6585	44
Referral/follow-up	355	400	415	448	343	468	487	598	391	343	373	416	5037	34
Admitted	155	140	152	147	160	187	143	178	130	129	154	192	1867	13
Other	129	135	102	116	118	154	159	78	126	90	111	123	1441	10
Total	1115	1205	1271	1280	1125	1379	1408	1477	1106	1039	1177	1348	14930	100

Almost six in ten (57%) RTC attendees were discharged while 11% were admitted to hospital, and over a third (38%) of DSH attendees were admitted to hospital (table 4).

Table 4: ED injury attendances by disposal method and injury group April 2014 to March 2015[†]

Disposal method	Assault		DSH		Other accident		RTC		Sports injury		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Discharged	607	38	89	21	3737	43	1265	57	887	44	6585	44
Referral/follow-up	464	29	102	24	3003	35	494	22	881	44	4944	33
Admitted	280	17	163	38	1101	13	237	11	86	4	1867	13
Other	260	16	74	17	829	10	219	10	152	8	1534	10
Total	1611	100	428	100	8670	100	2215	100	2006	100	14930	100

[†]Due to low number firework injury and brought in dead are included in other accident, (n<5).

Table 5 shows the ethnicity of attendees to Manchester Royal Infirmary ED. Almost six in ten (58%) were White, 7% were Pakistani and 7% were Black.

Table 5: ED injury attendances by ethnicity and month, April 2014 to March 2015¹

Ethnicity	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
White	680	732	765	808	622	832	838	876	661	632	689	506	8641	58
Other ethnic group	119	127	136	115	121	122	182	150	107	125	131	52	1487	10
Pakistani	83	91	108	86	112	104	99	114	79	57	93	74	1100	7
Black	59	94	94	96	91	117	89	110	100	66	89	75	1080	7
Not known	0	0	0	0	0	0	0	0	45	41	59	545	690	5
Not stated	60	44	43	58	70	86	26	73	10	25	10	7	512	3
Mixed	36	37	39	37	29	39	48	45	33	31	30	18	422	3
Asian other	39	37	44	39	30	28	23	47	28	23	35	25	398	3
Indian	19	21	19	21	19	23	72	21	21	18	22	19	295	2
Chinese	12	13	11	10	16	16	17	24	13	11	14	16	173	1
Bangladeshi	8	9	12	10	15	12	14	17	9	10	5	11	132	1
Total	1115	1205	1271	1280	1125	1379	1408	1477	1106	1039	1177	1348	14930	100

¹ White = Irish, British, other White background; Mixed = White and Black, White and Asian, mixed - any other; Black = African, Caribbean, other Black.

ASSAULT ATTENDANCES

Between April 2014 and March 2015 there were 1,611 assault-related injury attendances to Manchester Royal Infirmary ED. Almost three-quarters (74%) of assault attendances were male and 57% were aged between 20 and 34 years (table 6).

Table 6: ED assault attendances by gender and age group, April 2014 to March 2015²

Gender	Assault attendances (n=1,611)		All injury attendances (n=14,930)	
	n	%	n	%
Male	1198	74	9018	61
Female	413	26	5912	39
Age group	n	%	n	%
0 - 4	***	0	75	5
5 - 19	198	12	315	18
20 - 34	916	57	6825	45
35 - 49	365	23	2700	18
50 - 64	120	7	810	9
65 plus	<15	1	385	5

² Please note that for all tables, all numbers less than five have been suppressed (***) in line with patient confidentiality. If there is only one number less than five in a category then two numbers will be suppressed to prevent back calculation from totals.