

Injury attendances to Royal Albert Edward Infirmary Emergency Department

April 2010 to March 2011

This report summarises recorded injury attendances to Royal Albert Edward Infirmary Emergency Department (ED) between April 2010 and March 2011.

From April 2010 to March 2011 there were 35,759 injury attendances to Royal Albert Edward Infirmary ED. Males accounted for over half (51%) of all attendances. The month with the highest attendances for injury was May (n=3,419) with January (n=2,526) having the lowest attendances (Figure 1). The majority (91%) of attendances were recorded as other accident. Assaults accounted for 4% of all injury attendances, road traffic collisions (RTC) 3% and deliberate self-harm (DSH) 2% (Table 1).

For all injuries, the highest proportions of attendances were for persons aged 5 to 19 (27%) and 20 to 34 (23%) years (Figure 2). Four in ten (40%) DSH attendees were aged 20 to 34 (Figure 3).

Table 2 shows the location of the incident of injury attendances. Over half (51%) of injuries occurred in the home; 7% occurred in a public place or at work whilst 5% occurred at an educational establishment.

Table 3 shows the ethnicity of injury attendees to Royal Albert Edward Infirmary ED. Over nine in ten (96%) were recorded as white, 3% were recorded as not known.

The disposal of a patient can give an indication of the severity of the injuries sustained. Over a half (54%) were discharged, over four in ten (41%) were referred and 4% were admitted (Table 4). Over four in five (84%) of RTC attendees were discharged. Nearly half (46%) of DSH attendees had a referral/follow-up (Table 5).

Table 6 shows the arrival methods of injury attendances at Royal Albert Edward Infirmary ED. Around one in seven (14%) arrived by ambulance.

Table 7 shows assault attendances to Royal Albert Edward Infirmary ED. Over seven in ten (73%) of assault attendees were male, nearly half (46%) were aged 20 to 34 (Figure 3). Over a third (33%) of assault attendees arrived at the ED by ambulance, and nearly two-fifths (39%) of assault attendances occurred at weekend nights.

Figure 4 (a-d) shows crude rates of attendance at Royal Albert Edward Infirmary ED by attendee's area of residence, in this case Middle Super Output Area (MSOA). The MSOAs with the highest crude rates are indicated beneath each figure.

Figure 1: Royal Albert Edward Infirmary ED: Total injury attendances by gender and month, April 2010 to March 2011

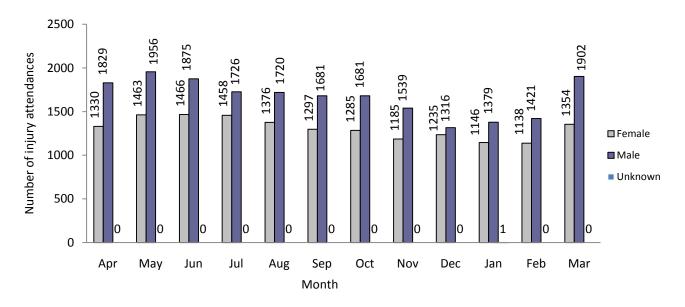


Table 1: Royal Albert Edward Infirmary ED: Total injury attendances by injury group and month, April 2010 to March 2011

Injury group	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Other accident	2918	3141	3037	2898	2774	2733	2703	2484	2310	2307	2335	3029	32669	91
Assault	115	106	127	103	120	98	118	83	115	98	102	117	1302	4
RTC	86	93	98	103	133	98	83	101	88	71	80	61	1095	3
DSH	40	79	79	80	69	49	62	56	38	50	42	49	693	2
Total	3159	3419	3341	3184	3096	2978	2966	2724	2551	2526	2559	3256	35759	100

Figure 2: Royal Albert Edward Infirmary ED: Total injury attendances by age group and month, April 2010 to March 2011

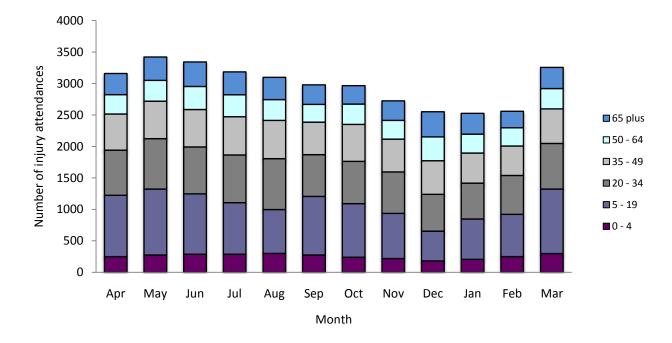


Figure 3: Royal Albert Edward Infirmary ED: Total injury attendances by age group and injury group (excluding other injury), April 2010 to March 2011

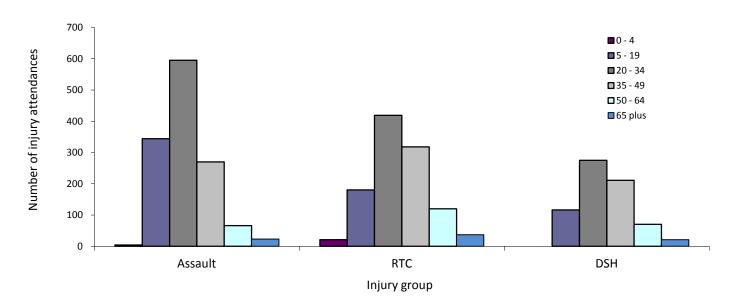


Table 2: Royal Albert Edward Infirmary ED: Total injury attendances by location of incident and month, April 2010 to March 2011

Location	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Home	1602	1822	1825	1727	1822	1373	1400	1322	1246	1274	1243	1489	18145	51
Other	1060	932	900	924	862	978	960	843	768	787	774	1059	10847	30
Public place	146	272	234	204	218	202	222	140	260	163	180	206	2447	7
Work	197	200	201	221	186	217	221	237	175	163	193	209	2420	7
Educational establishment	154	193	181	108	8	208	163	182	102	139	169	293	1900	5
Total	3159	3419	3341	3184	3096	2978	2966	2724	2551	2526	2559	3256	35759	100

Table 3: Royal Albert Edward Infirmary ED: Total injury attendances by ethnicity and month, April 2010 to March 2011¹²

Ethnicity	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
White	3059	3304	3199	3069	2964	2882	2841	2617	2462	2424	2479	3119	34419	96
Not known	68	78	94	75	96	66	94	84	67	69	63	98	952	3
Black	7	***	12	12	12	6	***	5	***	***	***	10	80	0
Mixed	***	8	9	5	10	6	***	6	5	10	6	***	77	0
Bangladeshi	8	12	10	6	***	9	5	***	***	6	***	7	75	0
Chinese	***	***	5	5	***	5	6	5	***	***	***	6	47	0
Indian	***	***	***	***	***	***	5	***	***	7	***	5	44	0
Any other Asian background	***	5	6	8	***	***	***	***	***	***	***	5	41	0
Pakistani	***	***	***	***	***	***	***	***	***	***	***	***	16	0
Any other ethnic group	***	***	***	***	***	***	***	***	***	***	***	***	8	0
Total	3146	3118	3195	2871	2947	2985	2739	2556	2792	2698	2409	3023	35759	100

^{*}Percentages may not add up to 100 due to rounding.

¹ Please note that all numbers less than five have been suppressed in line with patient confidentiality and if there is only one number <5 in a category then two numbers will be suppressed at the next level.

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

Table 4: Royal Albert Edward Infirmary ED: Total injury attendances by method of disposal and month, April 2010 to March 2011³

Disposal	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Discharged	1648	1846	1919	1761	1641	1572	1608	1407	1325	1346	1483	1908	19464	54
Referral/follow-up	1226	1341	1290	1296	1323	1301	1236	1210	1107	1086	990	1237	14643	41
Admitted	274	218	***	120	118	96	113	101	***	87	***	105	1562	4
Other	11	14	***	7	14	9	9	6	***	7	***	6	90	0
Total	3159	3419	3341	3184	3096	2978	2966	2724	2551	2526	2559	3256	35759	100

^{*}Percentages may not add up to 100 due to rounding.

Table 5: Royal Albert Edward Infirmary ED: Total injury attendances by method of disposal and injury group, April 2010 to March 2011

Disposal	Assault		DSH		Other acc	ident	RTC	:	Total	
	n	%	n	%	n	%	n	%	n	%
Discharged	686	53	252	36	17603	54	923	84	19464	54
Referral/follow-up	561	43	317	46	13610	42	155	14	14643	41
Admitted	***	***	111	16	1394	4	***	***	1562	4
Other	***	***	13	2	62	0	***	***	90	0
Total	1302	100	693	100	32669	100	1095	100	35759	100

^{*}Percentages may not add up to 100 due to rounding.

Table 7: Royal Albert Edward Infirmary ED: Total injury attendances by mode of arrival and month, April 2010 to March 2011

Mode	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Other	2732	2938	2893	2717	2662	2591	2532	2326	2074	2119	2245	2861	30690	86
Ambulance	427	481	448	467	434	387	434	398	477	407	314	395	5069	14
Total	3159	3419	3341	3184	3096	2978	2966	2724	2551	2526	2559	3256	35759	100

Table 6: Royal Albert Edward Infirmary ED: Total assault and injury attendances by gender, mode of arrival, incident location and time of attendance, April 2010 to March 2011

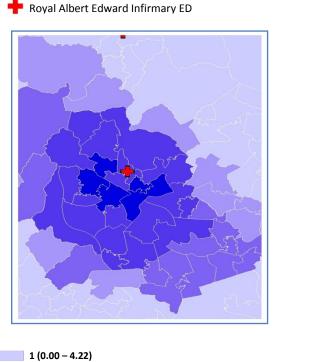
Injury type	Assault a	attendees	All injuries % (n=75,837)
Gender	n	%	%
Female	352	27	49
Male	950	73	51
Mode of arrival	n	%	%
Ambulance	436	34	29
Other	866	66	71
Age group	n	%	%
Other	443	34	18
Public place	398	31	4
Home	382	29	71
Work	43	3	3
Educational establishment	***	***	2
Not recorded	***	***	2
Day & time	n	%	%
Weekend nights*	367	28	10
Weekend days	298	23	20
Weekdays	637	49	70

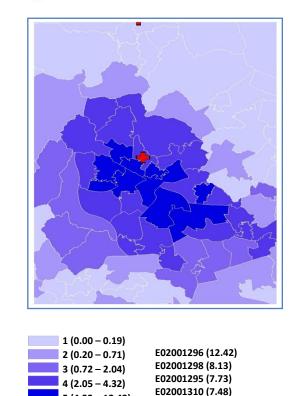
 $^{*8} pm\ to\ 4 am,\ Friday\ night/Saturday\ morning,\ Saturday\ night/Sunday\ morning,\ Sunday\ night/Monday\ morning.$

³ Admitted=admitted to hospital bed; Discharged=discharged - did not require any follow up treatment; Referral/follow-up=discharged - follow up treatment to be provided by GP, referred to ED clinic, referred to fracture clinic, referred to other out-patient clinic, transferred to other health care provider; Other=died in department, left department before being treated, left department having refused treatment.

Figure 4a,b,c,d: Middle Super Output Area of residence for injury attendances to Royal Albert Edward Infirmary ED. Quintiles of crude rates per 1,000 population, April 2010 to March 2011

a) All injury attendances: quintiles of crude rates per 1,000 population b) Assault: quintiles of crude rates per 1,000 population



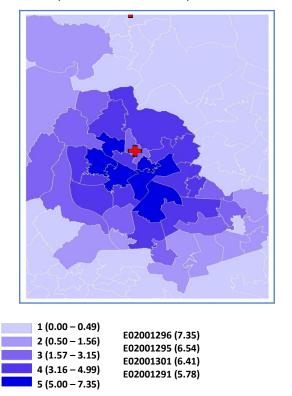


Royal Albert Edward Infirmary ED



c) RTC: quintiles of crude rates per 1,000 population

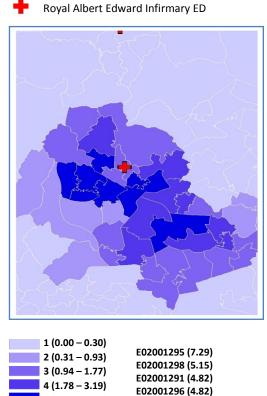
Royal Albert Edward Infirmary ED



d) DSH: quintiles of crude rates per 1,000 population

5 (4.33 – 12.42)

5 (3.20 – 7.29)



Author: Ian Warren

Published: June 2011

For further information please contact:

Centre for Public Health, Research Directorate, Liverpool John Moores University, 2nd Floor, Henry Cotton Building, 15-21 Webster Street, Liverpool, L3 2ET

Tel: 0151 231 4513 or Email: i.j.warren@ljmu.ac.uk

Website: www.tiig.info (data requests should be made through the website)

