



trauma and injury intelligence group

Arrowe Park Accident and Emergency department Monthly bulletin: April 2006 to March 2007

This bulletin provides a breakdown of all trauma¹ attendances at Arrowe Park Accident and Emergency (A&E) department between April 2006 and March 2007.

Figure 1 illustrates the number of trauma attendances by month of attendance. Trauma attendance peaked in September; with February having the least number of trauma attendances.

Figure 1: Total number of trauma attendances by month, April 2006 to March 2007

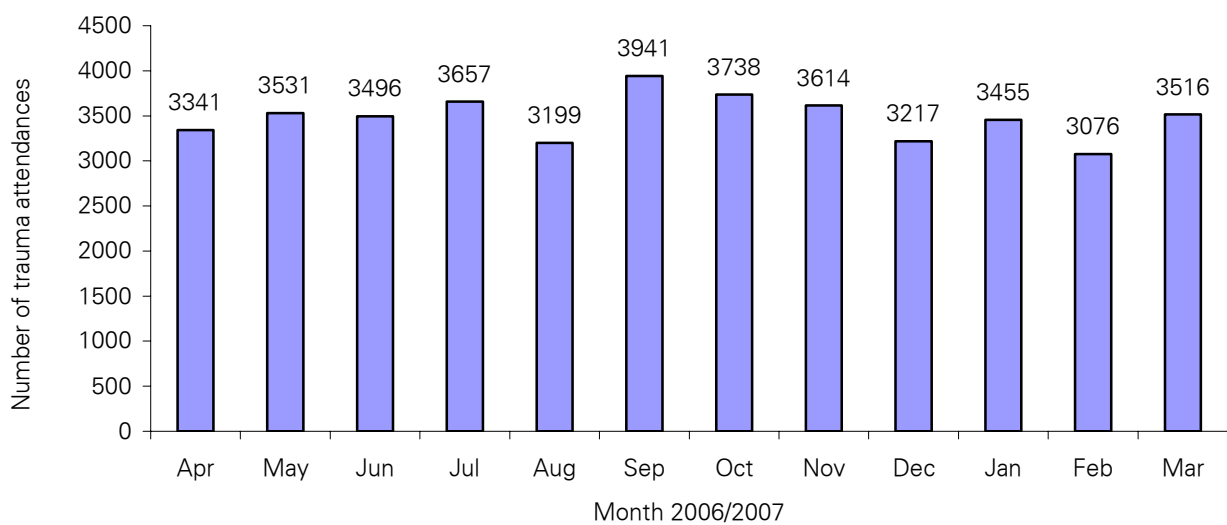
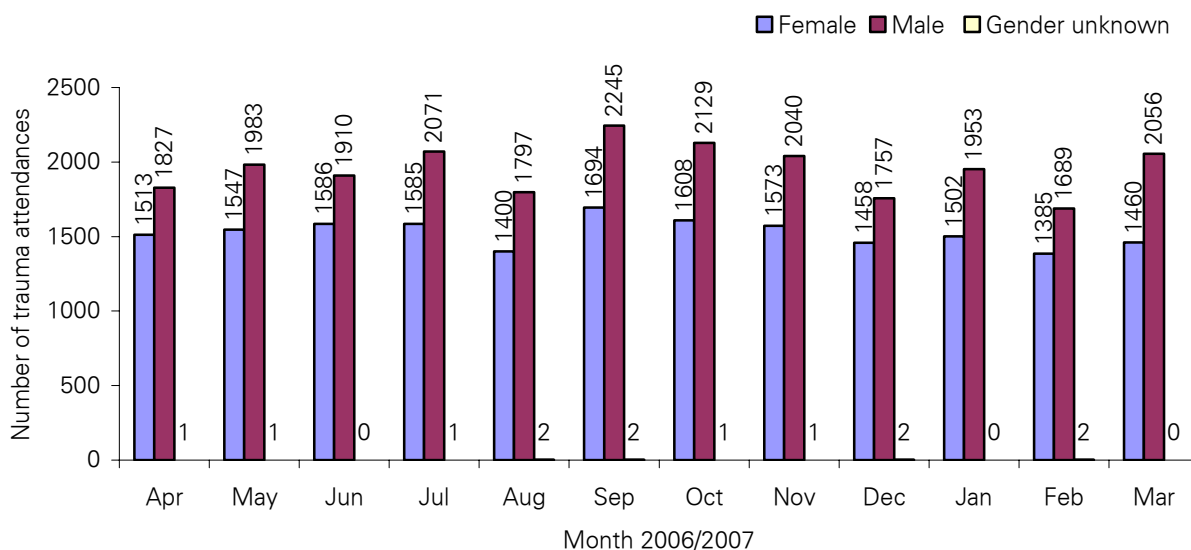


Figure 2 illustrates trauma attendances by gender. For all months there were more male trauma attendances than female presenting at Arrowe Park A&E department.

Figure 2: Gender of trauma attendances by month, April 2006 to March 2007



¹Trauma refers to all A&E attendances presenting as a result of an accident or intentional/unintentional injury.

Trauma attendances were more likely to be aged 15 to 59 years old (Figure 3).

Figure 3: Age group of trauma attendances by month, April 2006 to March 2007

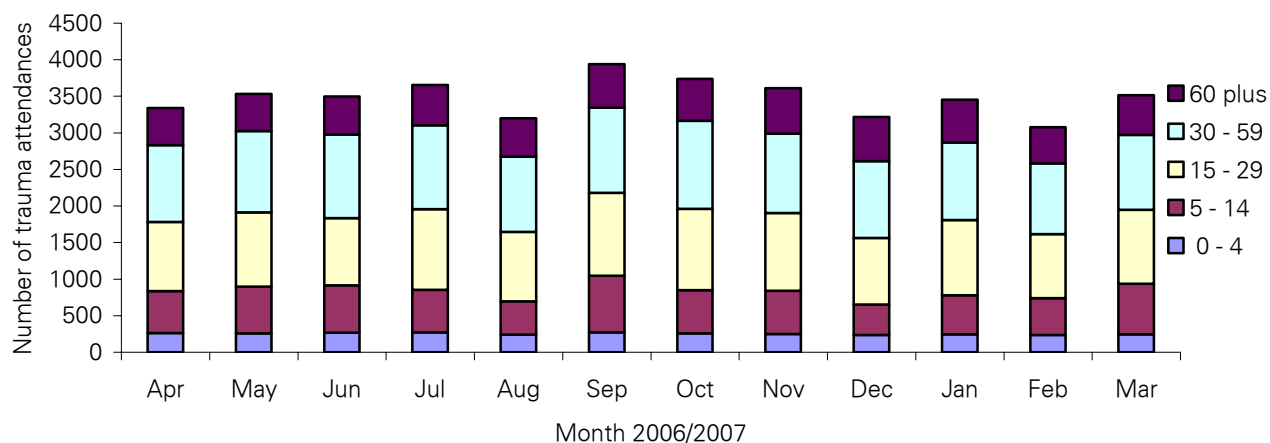


Table 1 details injury group of trauma attendances. The most common cause of injury was by a fall, accounting for 40% of all trauma attendances.

Table 1: Trauma attendances by injury group, April 2006 to March 2007

Injury Group	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Fall	1311	1360	1416	1455	1246	1500	1482	1423	1320	1353	1282	1507	16655	40
Struck	418	420	531	477	437	629	585	739	495	492	401	502	6126	15
Road traffic accident	300	362	313	249	319	375	366	309	320	339	326	325	3903	9
Wound/cut	300	334	334	411	313	344	341	261	286	270	267	323	3784	9
Other accident	283	385	321	312	299	359	255	190	217	331	231	317	3500	8
Assault	256	256	255	291	224	235	256	209	240	231	185	170	2808	7
Sports injury	236	176	104	151	124	254	232	257	128	221	171	200	2254	5
Deliberate self harm	109	118	83	117	103	103	89	95	101	94	102	73	1187	3
Burn/scald	42	35	44	58	43	40	48	60	37	40	37	29	513	1
Bite	46	39	51	91	53	57	45	27	28	26	22	27	512	1
Ingestion	22	33	29	24	20	22	26	28	30	41	32	25	332	1
Inhalation	3	8	4	2	5	6	4	8	8	13	12	11	84	0
Non fire burn/scald	7	3	4	5	4	7	4	1	2	4	2	3	46	0
Stab	2	0	1	6	2	2	1	1	0	0	3	1	19	0
Electrical	3	0	0	2	3	0	3	1	1	0	3	1	17	0
Glass	0	1	1	1	2	5	0	0	1	0	0	1	12	0
Firearm	0	1	3	2	2	0	0	0	1	0	0	1	10	0
Firework	2	0	1	0	0	1	0	5	0	0	0	0	9	0
Drown/immersion	1	0	1	3	0	2	1	0	0	0	0	0	8	0
Non drown asphyxia	0	0	0	0	0	0	0	0	2	0	0	0	2	0
Total	3341	3531	3496	3657	3199	3941	3738	3614	3217	3455	3076	3516	41781	100

Table 2 illustrates injury group of trauma attendances for the 0 to 4 and 60 plus age groups. During April 2006 to March 2007 falls accounted for the highest group of trauma attendances for both age groups, accounting for 53% and 69% of child and older adult injuries respectively.

Table 2: Trauma attendances aged 0 to 4 and 60 plus by injury group, April 2006 to March 2007

Injury Group	Aged 0 - 4		Aged 60 plus	
	N	%	N	%
Assault	3	0	46	1
Bite	37	1	77	1
Burn/scald	118	4	38	1
Drown/immersion	0	0	0	0
Deliberate self harm	0	0	65	1
Electrical	0	0	1	0
Fall	1602	53	4570	69
Firearm	0	0	2	0
Firework	1	0	1	0
Glass	0	0	1	0
Ingestion	160	5	11	0
Inhalation	5	0	11	0
Non drown asphyxia	0	0	1	0
Non fire burn/scald	3	0	3	0
Other accident	334	11	444	7
Road traffic accident	117	4	313	5
Sports injury	1	0	18	0
Stab	0	0	0	0
Struck	413	14	481	7
Wound/cut	253	8	545	8
Total	3047	100	6628	100

Table 3 illustrates the location where assaults occurred for patients presenting with assault-related injuries. The primary locations for assaults were street/road (41%), public space (28%) and domestic violence/home (15%).

Table 3: Assault attendances by general location of incident, April 2006 to March 2007

Assault location	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Street/road	96	77	113	139	112	120	116	96	106	66	58	64	1163	41
Public space	55	89	63	74	60	58	56	55	60	85	74	51	780	28
Domestic violence/home	48	31	38	44	28	31	49	33	39	41	20	24	426	15
Public house	17	21	11	5	6	4	11	5	11	9	17	6	123	4
Night club	10	9	2	7	7	5	2	5	7	6	2	10	72	3
School	8	9	7	3	0	6	4	5	3	6	4	3	58	2
Work	7	4	5	3	2	3	7	2	6	6	1	3	49	2
Public park	4	1	10	6	4	4	3	5	3	2	1	4	47	2
Other/unknown	4	3	1	3	2	1	2	0	2	5	1	0	24	1
Railway station	3	4	0	3	0	2	2	2	0	0	3	1	20	1
Shop/shopping centre	0	4	0	1	1	0	1	0	0	3	0	1	11	0
Bus station	1	0	2	0	0	1	1	0	0	0	1	2	8	0
Leisure facility	0	2	0	0	2	0	1	0	0	0	3	0	8	0
Details withheld by patient	1	0	1	2	0	0	1	0	1	1	0	0	7	0
Public transport	0	2	0	0	0	0	0	0	1	0	0	1	4	0
Car park	0	0	2	1	0	0	0	0	0	0	0	0	3	0
Football	0	0	0	0	0	0	0	0	1	1	0	0	2	0
Hospital	1	0	0	0	0	0	0	1	0	0	0	0	2	0
Road/car rage	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Total	256	256	255	291	224	235	256	209	240	231	185	170	2808	100

Further information on assault location is now being collected at Arrowe Park A&E department. Data for April 2006 to March 2007 highlighted that the primary location of assaults was Birkenhead town centre, accounting for a third (35%) of assault locations. Wallasey and Seacombe accounted for 12% of assault locations during this period.

Table 4: Assault attendances by location of incident, April 2006 to March 2007

Assault location	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Birkenhead Town Centre	70	83	93	108	74	73	94	81	97	91	57	52	973	35
Wallasey/Seacombe	29	23	24	31	38	26	30	22	24	31	38	31	347	12
Bidston/Prenton/Oxton	33	19	28	22	24	17	24	14	15	13	14	15	238	8
New Ferry/Rock Ferry	20	15	18	28	12	23	16	16	14	10	16	13	201	7
Moreton/Leasowe	17	9	13	13	12	14	17	15	9	13	7	5	144	5
Liverpool City Centre	7	21	6	15	10	13	12	11	14	11	7	9	136	5
Greasby/Upton/Arrowe Park	12	18	5	10	7	14	9	3	6	13	8	6	111	4
Refused to answer	9	16	14	16	9	9	4	9	6	8	6	5	111	4
Bromborough	14	6	10	9	4	7	12	3	11	11	6	9	102	4
Unknown	11	7	7	9	4	12	8	10	10	3	3	3	87	3
New Brighton	15	7	2	8	6	10	6	7	7	3	2	7	80	3
Neston/Parkgate	7	4	9	2	8	2	2	7	7	7	6	4	65	2
Bebington	3	10	3	7	7	4	6	4	6	2	3	3	58	2
Heswall/Pensby/Thingwall	5	3	4	4	3	3	5	2	7	9	7	3	55	2
West Kirkby	1	6	9	4	1	4	6	1	2	4	1	2	41	1
Meols/Frankby/Hoylake	3	4	9	5	2	3	2	3	4	0	4	1	40	1
Ellesmere Port/Cheshire Oaks	0	5	1	0	3	1	3	1	0	2	0	2	18	1
Barnston	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Hooton	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	256	256	255	291	224	235	256	209	240	231	185	170	2808	100

Table 5 shows the number of attackers involved in assaults requiring A&E treatment. Over half (56%) of assaults involved one attacker, yet a third (34%) involved two or more attackers.

Table 5: Assault attendances by number of attackers, April 2006 to March 2007

Number of attackers	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
1 attacker	144	129	143	150	114	148	143	120	140	128	108	93	1560	56
2 Attackers	21	26	29	34	22	18	26	13	13	17	23	19	261	9
>2 Attackers	51	69	60	70	55	52	67	60	66	57	45	44	696	25
Unknown	40	32	23	37	33	17	20	16	21	29	9	14	291	10
Total	256	256	255	291	224	235	256	209	240	231	185	170	2808	100

Figure 4 shows the number of all trauma attendances and assault attendances only who had been drinking prior to the incident occurring. Between 5% and 10% of trauma attendees had been drinking prior to the incident, compared with between 39% and 57% of assault attendees only.

Figure 4: Alcohol related trauma attendance, all trauma and assaults only, April 2006 to March 2007

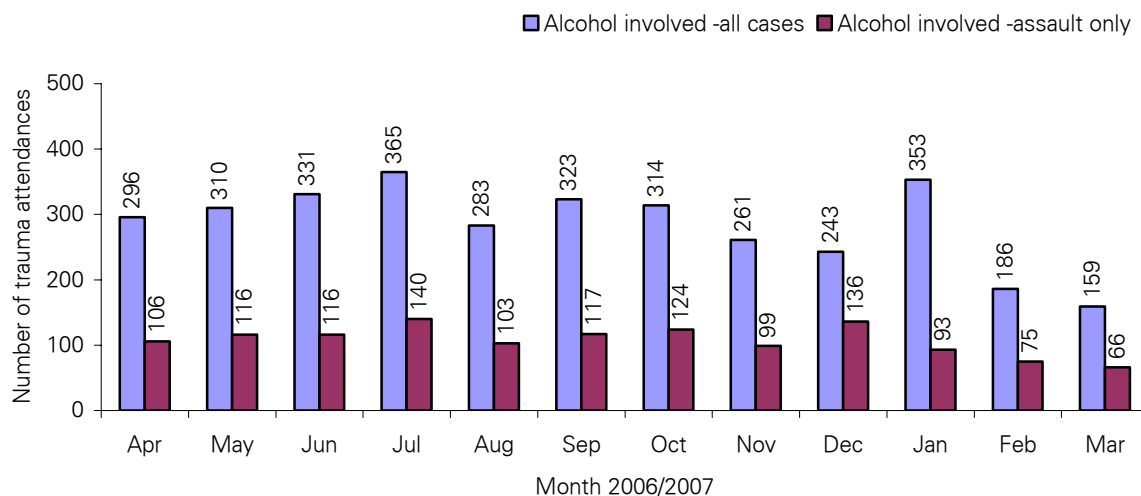


Table 6 shows the disposal method of trauma attendances. The majority (87%) of trauma attendances were discharged after treatment.

Table 6: Disposal method of trauma attendances, April 2006 to March 2007

Discharge Method	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Admitted	417	419	435	450	457	493	456	475	480	418	419	394	5313	13
Discharged	2924	3112	3061	3207	2742	3448	3282	3139	2737	3037	2657	3122	36468	87
Total	3341	3531	3496	3657	3199	3941	3738	3614	3217	3455	3076	3516	41781	100

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* Percentages may not add to one hundred due to rounding.