

Arrowe Park Emergency Department Monthly Bulletin: April 2009 to March 2010

This bulletin provides a breakdown of all injury¹ attendances at Arrowe Park Emergency Department (ED) between April 2009 and March 2010. Injury attendance peaked in June (n=3,522), with February (n=2,254) having the fewest number. Figure 1 illustrates injury attendances by gender. For all months there were more male (54%) injury attendances than female presenting at Arrowe Park ED and over a quarter (27%) of injury attendances were made by people aged 15 to 29 years (Figure 2).

Figure 1: Gender of injury attendances by month, April 2009 - March 2010

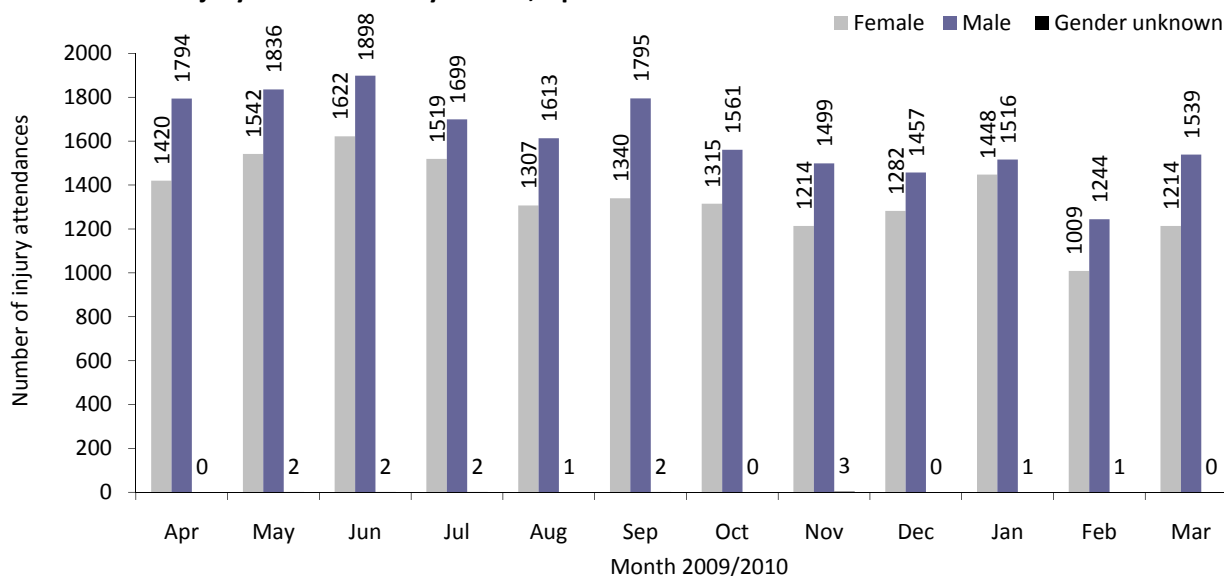


Figure 2: Age group of injury attendances by month, April 2009 - March 2010

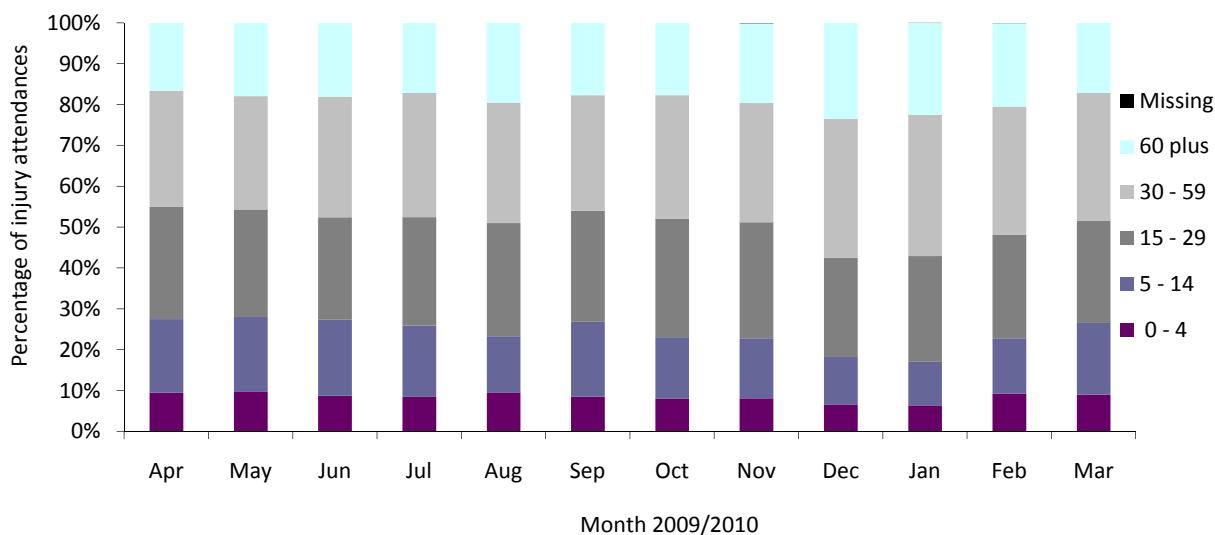


Table 1 details the injury group of injury attendances. The most common cause of injury was by a fall, accounting for 45% of all injury attendances.

Table 1: Injury attendances by injury group, April 2009 - March 2010^{2 3}

Injury group	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Fall	1396	1529	1613	1406	1278	1353	1148	1123	1322	1654	956	1132	15910	45
Struck	482	479	452	472	349	468	420	449	294	307	341	413	4926	14
Road traffic collision	282	289	288	311	247	298	336	303	313	275	241	314	3497	10
Other accident	278	313	334	321	326	294	281	216	268	231	264	300	3426	10
Wound/cut	250	253	304	295	256	219	211	195	172	167	138	189	2649	7
Assault	221	211	218	146	222	153	159	162	155	142	119	127	2035	6
Sports injury	132	112	122	78	85	215	154	107	72	63	71	143	1354	4
Deliberate self-harm	47	67	77	44	49	66	59	61	45	56	45	46	662	2
Bite	34	44	36	56	35	28	37	25	31	15	15	22	378	1
Burn/scald	42	29	38	34	33	18	28	36	29	28	31	21	367	1
Ingestion	33	39	30	36	29	21	29	25	25	15	26	30	338	1
Inhalation	6	8	***	8	***	***	5	***	***	7	5	***	56	0
Non-fire burn/scald	5	***	***	6	***	***	***	7	***	***	***	***	43	0
Glass	***	***	***	***	5	***	***	***	***	***	***	***	19	0
Electrical	***	***	***	***	***	***	***	***	***	***	***	***	14	0
Drown/immersion	***	***	***	***	***	***	***	***	***	***	***	***	11	0
Stab	***	***	***	***	***	***	***	***	***	***	***	***	8	0
Firearm	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Firework	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Non-drown asphyxia	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Total	3214	3380	3522	3220	2921	3137	2876	2716	2739	2965	2254	2753	35697	100

Table 2 shows injury group of injury attendances for those aged zero to four and 60 plus. Falls accounted for the highest group of injury attendances for both age groups, accounting for 55% and 71% respectively. The primary locations for falls in those aged zero to four and 60 plus were in and around the home (58%; 48%) (Table 3).

Table 2: Injury attendees aged 0 - 4 and 60 plus by injury group, April 2009 - March 2010

Injury group	Aged 0 - 4		Aged 60 plus	
	N	%	N	%
Fall	1649	55	4763	71
Other accident	304	10	728	11
Wound/cut	284	9	462	7
Struck	403	13	320	5
Road traffic collision	118	4	257	4
Bite	18	1	46	1
Assault	***	0	35	1
Burn/scald	97	3	32	0
Deliberate self-harm	***	0	28	0
Ingestion	123	4	26	0
Sports injury	***	0	16	0
Inhalation	5	0	11	0
Non-fire burn/scald	11	0	***	0
Drown/immersion	***	0	***	0
Electrical	***	0	***	0
Stab	***	0	***	0
Total	3022	100	6729	100

Table 3: Fall attendees aged 0 - 4 and 60 plus by incident location, April 2009 - March 2010

Specific location	Aged 0 - 4		Aged 60 plus	
	N	%	N	%
Public place	560	34	2330	49
Home bedroom	163	10	560	12
Home living/dining room	330	20	526	11
Home other	60	4	380	8
Home stairs	147	9	211	4
Home bathroom	36	2	152	3
Home garden	80	5	140	3
Other	68	4	114	2
Home kitchen	63	4	97	2
Home hall	40	2	66	1
Home outside steps	22	1	61	1
Home path/drive	13	1	50	1
Work	***	0	30	1
Home garage/workshop	***	0	18	0
Sport	7	0	16	0
Home conservatory	***	0	5	0
School grounds/field	34	2	***	0
School classroom	11	1	***	0
Home cellar	***	0	***	0
Home lofts	***	0	***	0
School changing/cloak room	***	0	***	0
School hall	***	0	***	0
School other	***	0	***	0
School sports hall	***	0	***	0
Sea/waterway	***	0	***	0
Total	1649	100	4763	100

Table 4 shows the disposal method of injury attendances. The majority (87%) of injury attendances were discharged after treatment.

Table 4: Disposal method of injury attendances, April 2009 - March 2010

Disposal method	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Discharged	2838	2954	3119	2906	2562	2762	2513	2330	2333	2490	1895	2377	31079	87
Admitted	376	426	403	314	359	375	363	386	406	475	359	376	4618	13
Total	3214	3380	3522	3220	2921	3137	2876	2716	2739	2965	2254	2753	35697	100

Table 5 illustrates the general location where assaults occurred for patients presenting with assault-related injuries. The primary locations for assaults were street/road (40%), public space (22%) and domestic violence/home (17%).

Table 5: Assault attendances by general location of incident, April 2009 - March 2010

Assault location	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Street/road	72	79	122	47	74	59	66	83	53	53	38	67	813	40
Public space	64	50	30	39	58	41	36	25	40	22	33	16	454	22
Domestic violence/home	45	31	29	26	43	23	24	27	27	29	21	17	342	17
Public house	14	14	13	***	14	9	7	9	12	9	12	10	127	6
Work	6	8	***	6	6	5	7	9	7	5	5	5	72	4
Public park	9	10	7	5	6	7	***	***	***	5	***	***	56	3
Night club	***	9	***	***	***	***	6	***	6	7	***	5	53	3
Other/unknown	***	***	***	7	5	***	7	***	***	6	***	***	44	2
School	***	***	5	***	***	***	***	***	***	***	***	***	29	1
Shop/shopping centre	***	***	***	***	***	***	***	***	***	***	***	***	14	1
Railway station	***	***	***	***	***	***	***	***	***	***	***	***	11	1
Leisure facility	***	***	***	***	***	***	***	***	***	***	***	***	6	0
Public transport	***	***	***	***	***	***	***	***	***	***	***	***	6	0
Bus station	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Car park	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Details withheld by patient	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Football	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Hospital	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Road/car rage	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Total	221	211	218	146	222	153	159	162	155	142	119	127	2035	100

Data for April 2009 to March 2010 highlighted that the primary location of assaults was Birkenhead Town Centre, accounting for 26% of assault locations. Wallasey and Seacombe accounted for 13% of assault locations during this period (Table 6).

Table 6: Assault attendances by location of incident, April 2009 - March 2010

Assault location	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
Birkenhead Town Centre	59	45	65	43	56	45	30	31	48	39	35	33	529	26
Wallasey/Seacombe	35	33	20	15	32	13	21	30	18	12	18	14	261	13
New Ferry/Rock Ferry	16	11	29	13	18	22	21	11	11	13	7	15	187	9
Bidston/Prenton/Oxton	21	23	21	8	17	6	13	8	11	16	16	11	171	8
Refused to answer	8	14	14	8	31	9	22	14	9	8	6	6	149	7
Greasby/Upton/Arrowe Park	10	11	8	13	11	10	5	7	8	8	8	9	108	5
Liverpool City Centre	9	11	***	7	14	8	7	10	10	9	10	8	107	5
Moreton/Leasowe	17	14	12	8	11	***	12	10	6	5	***	6	106	5
Unknown	10	***	6	***	6	7	9	10	***	5	***	***	71	3
Bromborough	***	10	6	***	6	***	7	6	7	6	***	6	68	3
Bebington	5	9	7	5	5	***	***	***	5	***	***	***	55	3
Heswall/Pensby/Thingwall	7	6	***	***	***	7	***	5	6	10	***	***	54	3
New Brighton	11	***	5	***	***	7	***	5	5	***	***	***	52	3
Neston/Parkgate	***	7	***	5	5	***	***	6	***	***	***	***	42	2
Meols/Frankby/Hoylake	***	***	7	6	***	***	***	***	***	***	***	***	31	2
West Kirkby	***	6	5	***	***	***	***	***	***	***	***	***	26	1
Ellesmere Port/Cheshire Oaks	***	***	***	***	***	***	***	***	***	***	***	***	13	1
Barnston	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Hooton	***	***	***	***	***	***	***	***	***	***	***	***	***	0
Total	221	211	218	146	222	153	159	162	155	142	119	127	2035	100

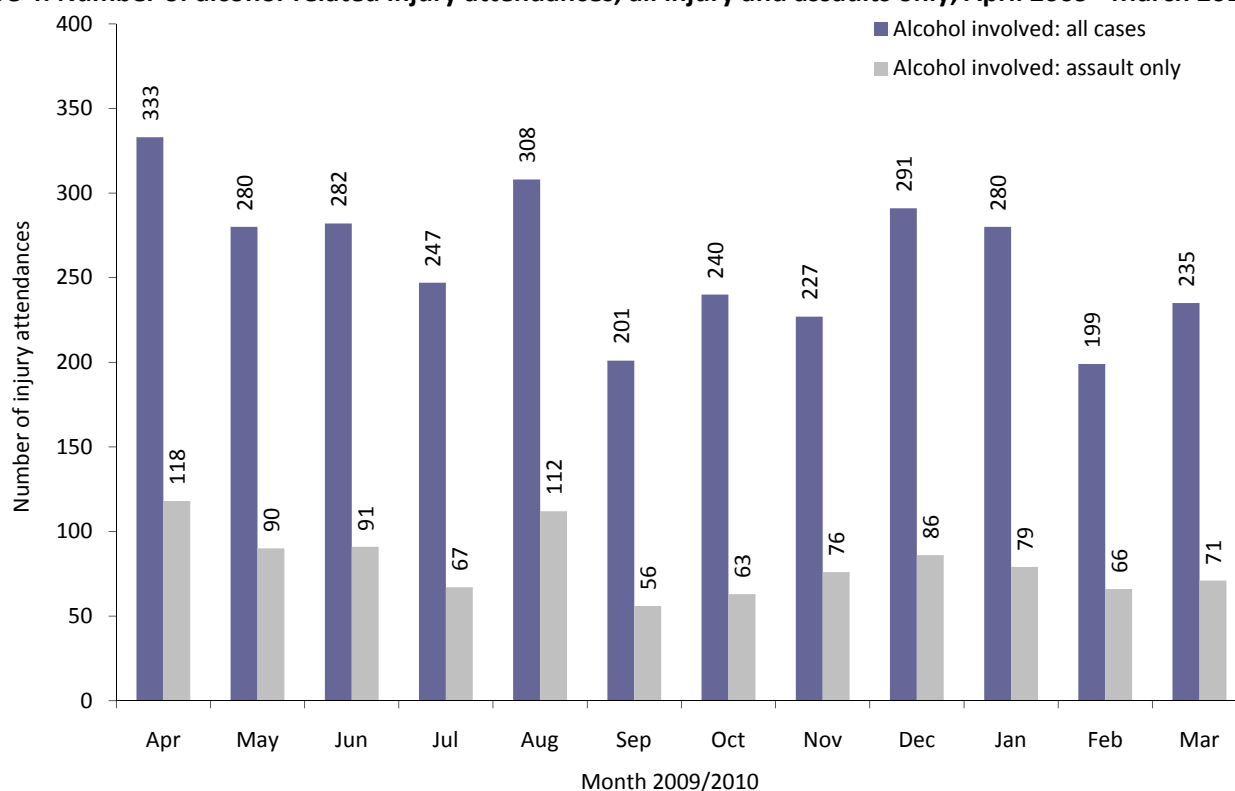
Table 7 shows the number of attackers involved in assaults leading to an ED attendance. Over half (58%) of assaults involved one attacker, yet nearly a third (31%) involved two or more attackers.

Table 7: Assault attendances by number of attackers, April 2009 - March 2010

Number of attackers	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	%
1 attacker	120	105	117	94	131	92	86	102	100	91	71	70	1179	58
>2 attackers	53	52	46	27	48	34	40	37	33	26	30	32	458	23
Unknown	27	39	34	15	27	14	18	10	10	10	7	10	221	11
2 attackers	21	15	21	10	16	13	15	13	12	15	11	15	177	9
Total	221	211	218	146	222	153	159	162	155	142	119	127	2035	100

Figure 4 shows the number of all injury attendances and assault attendances who had been drinking prior to the incident occurring. Between April 2009 and March 2010, 9% (range: 6% to 11%) of all injury attendees had been drinking prior to the incident, compared with 47% (range: 37% to 56%) of assault attendees only.

Figure 4: Number of alcohol-related injury attendances, all injury and assaults only, April 2009 - March 2010



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¹ Injury refers to all ED attendances presenting as a result of an intentional or unintentional injury.

² *** Please note that all numbers less than five have been suppressed in line with patient confidentiality and if there is only one number less than five in a category then two numbers will be suppressed at the next level (e.g. <6) in order to prevent back calculations from totals.

³ Please note percentages might not add to one hundred due to rounding.