



TIIG Greater Manchester themed report

Intentional and unintentional childhood injuries within Great Manchester (2011/12 to 2012/13)

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GREATER MANCHESTER AREA PROFILE

AREA DESCRIPTION

Greater Manchester is a metropolitan county within the north west of England which, using the mid population 2011 estimates, has a population of approximately 2.69 million people (ONS, 2012). Of these, approximately 602,000 residents in Greater Manchester are aged 17 and under. Within Greater Manchester, there are ten local authorities.

TABLE 1. Demographic breakdown of Greater Manchester residents aged 17 and under by gender and local authority (Mid-2011 Population Estimates)

Age group	0-4		5-9		10-13		14-17		Total	
Gender	Male	Female	Male	Female	Male	Female	Male	Female	Male total	Female total
Bolton	9640	9257	8784	8183	7254	6652	7671	7177	33349	31269
Bury	6211	6024	5844	5375	4584	4356	4938	4639	21577	20394
Manchester	18683	17834	14675	14318	10898	10270	11312	10492	55568	52914
Oldham	8279	8179	7984	7532	6272	5801	6327	6178	28862	27690
Rochdale	7598	7225	6831	6371	5558	5285	6026	5786	26013	24667
Salford	8474	7872	6706	6432	5090	5101	5646	5467	25916	24872
Stockport	8918	8424	8269	7654	6619	6461	7349	6860	31155	29399
Tameside	7391	7126	6365	6223	5137	4971	5826	5425	24719	23745
Trafford	7582	7306	7242	6905	5702	5479	6035	5565	26561	25255
Wigan	10145	9474	9334	8838	7435	6893	8079	7742	34993	32947
Total	92921	88721	82034	77831	64549	61269	69209	65331	308713	293152

Source: Mid-2011 Population Estimates, Office for National Statistics, (2012). Accessed from; <http://www.ons.gov.uk/ons/publications/reference-tables.html?edition=tc%3A77-262039>

LEVELS OF DEPRIVATION

In terms of deprivation, local authorities within Greater Manchester fall, on the whole, at the more deprived end of the scale in England. In the Indices of Multiple Deprivation (IMD 2010), seven out of ten local authorities within Greater Manchester are ranked in the most deprived quintile, these being; Bolton, Manchester, Oldham, Rochdale, Salford, Tameside and Wigan. Bury is ranked in the 2nd most deprived quintile and Stockport and Trafford in the 3rd.

EMPLOYMENT

Between October 2011 and September 2012, levels of unemployment ranged from 6.7% in Stockport to as high as 12.8% in Manchester. Eight out of ten local authorities in Greater Manchester have higher than average rates of unemployment (against England of 7.9%) - these are Wigan (8.7%), Bury (8.7%), Salford (9.6%), Tameside (9.8%), Bolton (9.9%), Oldham (10.6%), Rochdale (10.8%) and Manchester (12.8%). In addition, six local authorities have levels of unemployment higher than the North West average of 8.8% (ONS, 2013).

TABLE 2. Unemployment rates (in those aged 16 and over) in Greater Manchester local authorities (October 2009 to September 2012)

Year	Oct 2009-Sept 2010 (%)	Oct 2010-Sept 2011 (%)	Oct 2011-Sept 2012 (%)
Bolton	9.1	8.3	9.9
Bury	7.7	7.3	8.7
Manchester	11.7	11.4	12.8
Oldham	9.3	9.9	10.6
Rochdale	9.4	10.2	10.8
Salford	10.1	10.0	9.6
Stockport	6.9	6.8	6.7
Tameside	8.3	9.5	9.8
Trafford	7.0	6.6	7.4
Wigan	8.1	8.7	8.7
<i>North West</i>	<i>8.2</i>	<i>8.2</i>	<i>8.8</i>
<i>England</i>	<i>7.7</i>	<i>7.8</i>	<i>7.9</i>

Source: Figures for regions and England from Nomis, Office for National Statistics; and figures for local authorities are model based estimates, Office for National Statistics (2013). Accessed from; <http://www.neighbourhood.statistics.gov.uk/dissemination/Info.do?m=0&s=1380201273371&enc=1&page=analysisandguidance/analysisarticles/local-authority-profiles.htm&nsjs=true&nsck=false&nssvg=false&nswid=1024>

INCOME

Table 3 shows residence based earnings (median weekly gross pay for full time workers) for those living in Greater Manchester local authorities. Data for 2012 shows that eight out ten local authorities have lower than average weekly pay compared to the England average of £513 per week. These are Bury (£497), Rochdale (£477), Wigan (£471), Manchester (£458), Salford (£452), Bolton (£432), Tameside (£431) and Oldham (£426). In addition, six local authorities have residents with lower weekly pay than the North West average of £473 (ONS, 2013).

TABLE 3. Weekly income levels (in those aged 16 and over) in Greater Manchester local authorities (2010 to 2012)

Year	2010 (£)	2011 (£)	2012 (£)
Bolton	430	437	432
Bury	518	498	497
Manchester	438	433	458
Oldham	432	412	426
Rochdale	457	446	477
Salford	442	421	452
Stockport	512	497	518
Tameside	426	420	431
Trafford	536	562	567
Wigan	470	458	471
<i>North West</i>	<i>471</i>	<i>459</i>	<i>473</i>
<i>England</i>	<i>506</i>	<i>505</i>	<i>513</i>

Source: Nomis, Office for National Statistics (2013). Accessed from; <http://www.neighbourhood.statistics.gov.uk/dissemination/Info.do?m=0&s=1380201273371&enc=1&page=analysisandguidance/analysisarticles/local-authority-profiles.htm&nsjs=true&nsck=false&nssvg=false&nswid=1024>

CLAIMANT COUNTS

With higher than average unemployment within Greater Manchester, there is also a higher than average number of claimants for job seekers allowance within most local authorities. In March 2013, eight out of ten local authorities in Greater Manchester had higher than average rates of job seeker allowance claimant count rates (against England of 3.8). These are Bury (4.0), Wigan (4.7), Bolton (4.9), Tameside (5.0), Salford (5.4), Rochdale (5.5), Manchester (5.7) and Oldham (5.8). In addition, seven local authorities have levels of unemployment higher than the North West average of 4.4 (ONS, 2013).

TABLE 4. Job seeker allowance claimant count rates (%) (in those aged 16 to 64 years) in Greater Manchester local authorities (2010 to 2013)

Year	March 2010 (%)	March 2011 (%)	March 2012 (%)	March 2013 (%)
Bolton	4.9	4.4	4.9	4.9
Bury	4.0	3.6	4.3	4.0
Manchester	5.1	4.9	5.7	5.7
Oldham	5.3	4.9	5.7	5.8
Rochdale	5.8	5.2	5.9	5.5
Salford	5.1	4.6	5.5	5.4
Stockport	3.6	3.2	3.5	3.4
Tameside	4.9	4.3	5.1	5.0
Trafford	3.5	3.0	3.4	3.2
Wigan	4.9	4.2	4.7	4.7
North West	4.4	4.1	4.6	4.4
England	3.9	3.6	4.0	3.8

Source: Department for Work and Pensions, via Nomis, Office for National Statistics (2013). Accessed from; <http://www.neighbourhood.statistics.gov.uk/dissemination/Info.do?m=0&s=1380201273371&enc=1&page=analysisandguidance/analysisarticles/local-authority-profiles.htm&nsjs=true&nsck=false&nssvg=false&nswid=1024>

LEVELS OF EDUCATION

When looking at qualification levels in Greater Manchester, there are some local authorities who fall below the average for England. For example, if we look at those who have achieved a level 4 qualification or higher (see Box 1 for a full description of qualification types) there are seven local authorities who have lower than average numbers of people attaining a level four or higher qualification when compared to the figures for the whole of England of 33.5%. These are; Bury (32.7%), Bolton (29.2%), Salford (26.8%), Oldham (25.9%), Wigan (24.5%), Rochdale (24.3%) and Tameside (19%). In addition, six local authorities have a lower number of people attaining a level four or higher qualification when compared to the North West average of 31.0% (ONS, 2013). Please see table 5 for a more detailed breakdown including level two and three data.

Box 1. Qualifications by level examples

Level 1 - GCSES grade D to G

Level 2 - GCSES grade A* to C

Level 3 - A Levels

Level 4 - Certificate of higher education.

For a full description please visit;

<http://webarchive.nationalarchives.gov.uk/20121015000000/http://www.direct.gov.uk/en/EducationA>

TABLE 5. Qualification levels (in males aged 16 to 64 and females aged 16 to 59) in Greater Manchester local authorities in 2010 (%)

Level of qualification	Level 2 or higher (%)	Level 3 or higher (%)	Level 4 or higher (%)
Bolton	73.1	52.6	29.2
Bury	73.9	53.3	32.7
Manchester	70.0	53.7	35.2
Oldham	64.7	43.9	25.9
Rochdale	67.7	45.4	24.3
Salford	68.9	46.7	26.8
Stockport	76.2	58.1	38.1
Tameside	65.8	40.3	19.0
Trafford	76.4	59.2	41.4
Wigan	69.3	45.8	24.5
<i>North West</i>	<i>72.0</i>	<i>51.3</i>	<i>31.0</i>
<i>England</i>	<i>72.7</i>	<i>52.7</i>	<i>33.5</i>

Source: Department for Business, Innovation & Skills. Office for National Statistics (2013). Accessed from; <http://www.neighbourhood.statistics.gov.uk/dissemination/Info.do?m=0&s=1380201273371&enc=1&page=analysisandguidance/analysisarticles/local-authority-profiles.htm&nsjs=true&nsck=false&nssvg=false&nswid=1024>

CHILDHOOD POVERTY

Table 6 shows the proportion of dependent children within Greater Manchester local authorities who live in households whose equivalised income is below 60% of the contemporary national median. In 2010, six out of ten local authorities in Greater Manchester had higher than average rates of children living in poverty (against England of 20.6%). These were Bolton (23.1%), Tameside (23.4%), Rochdale (27.0%), Oldham (27.4%), Salford (28.6%) and Manchester (38.2%). In addition, all six of these local authorities have levels of childhood poverty higher than the North West average of 22.4% (ONS, 2013).

TABLE 6. Number of children living in poverty in Greater Manchester local authorities (2009 to 2010)

Year	2009 (%)	2010 (%)
Bolton	24.2	23.1
Bury	18.5	17.8
Manchester	39.8	38.2
Oldham	29.0	27.4
Rochdale	28.5	27.0
Salford	29.2	28.6
Stockport	16.0	15.7
Tameside	24.0	23.4
Trafford	15.5	14.9
Wigan	20.0	19.7
<i>North West</i>	<i>23.1</i>	<i>22.4</i>
<i>England</i>	<i>21.3</i>	<i>20.6</i>

Source: Department for Education, through Neighbourhood Statistics, Office for National Statistics (2013). Accessed from; <http://www.neighbourhood.statistics.gov.uk/dissemination/Info.do?m=0&s=1380201273371&enc=1&page=analysisandguidance/analysisarticles/local-authority-profiles.htm&nsjs=true&nsck=false&nssvg=false&nswid=1024>

ALCOHOL CONSUMPTION

Table 7 shows estimates of those aged 16 years and over engaging in low risk, increasing risk and high risk drinking in Greater Manchester using the Local Alcohol Profiles for England (LAPE), 2013. Looking at the high risk category (see box 2 for definition of each level of drinking), only two local authorities in Greater Manchester have higher than average rates of over 16s drinking at high risk levels (against both the north west average of 6.61% and England of 6.75%). These are Salford (6.94%) and Manchester (7.24%), (LAPE, 2013).

Box 2. Alcohol consumption levels

Lower risk drinking – Fewer than 22 units of alcohol per week for males and fewer than 15 for females.

Increasing risk drinking – Between 22 and 50 units of alcohol per week for males and between 15 and 35 units of alcohol per week for females.

Higher risk drinking – More than 50 units of alcohol per week for males and more than 35 units of alcohol per week for females.

TABLE 7. Mid 2009 synthetic estimate of the percentage aged 16 years and over who report engaging in low risk, increasing risk and high risk drinking (data on abstainers also included) in Greater Manchester local authorities.

Level of alcohol consumption	Abstainers	Low Risk	Increasing Risk	High Risk
Bolton	17.92	74.20	19.51	6.29
Bury	15.40	73.90	19.72	6.38
Manchester	20.47	73.55	19.21	7.24
Oldham	19.34	74.31	19.44	6.24
Rochdale	18.43	74.37	19.49	6.15
Salford	15.43	73.87	19.20	6.94
Stockport	14.13	73.16	20.51	6.33
Tameside	16.06	74.20	19.37	6.43
Trafford	15.70	73.21	20.35	6.43
Wigan	13.52	73.85	19.80	6.35
North West	15.38	73.53	19.86	6.61
England	16.53	73.25	20.00	6.75

Source: LAPE (2013), Public Health England. Accessed from; <http://www.lape.org.uk/index.html>

EMERGENCY DEPARTMENTS IN GREATER MANCHESTER

Within Greater Manchester there are twelve accident and emergency departments (ED) which serve Greater Manchester residents. These are; Manchester Royal Infirmary (MRI); Royal Albert Edward (RAE); Salford; Stepping Hill; Tameside; Bolton; Trafford; Wythenshawe; Fairfield; North Manchester; Royal Oldham and Rochdale.

TABLE OF INJURY GROUPS COLLECTED

Table 8 details which injury groups are collected by each ED. There are varying levels of data collected across trusts with some collecting the College of Emergency recommended injury groups only, while other trusts collect additional information such as falls, bites and stings and burns and scalds. Due to different levels of data collection, we are unable to give a full comparison of all injury groups across all EDs in this report. *Please note, Pennine Acute Trust includes Fairfield General Hospital, North Manchester General Hospital, Royal Oldham Hospital and Rochdale Infirmary.*

TABLE 8. Greater Manchester ED injury group data items

ED	Pennine Acute Trust	MRI	RAE	Salford	Stepping Hill	Tameside	Royal Bolton	Trafford	Wythenshawe	Total	Out of all 12
Assault	Y	Y	Y	Y	Y	Y	Y	Y	Y	9	12
Other injury	Y	Y	Y	Y	Y	Y	Y	Y	Y	9	12
Road traffic collision	Y	Y	Y	Y	Y	Y	Y	Y	Y	9	12
Sports injury	Y*	Y	N	Y	Y	Y	Y	Y	Y	8	11
Deliberate self-harm	Y	Y	Y	Y	N	Y	Y	Y	Y	7	10
Fall	Y	N	N	Y	Y	Y	Y	N	Y	6	9
Burns & scalds	Y	N	N	Y	Y	N	Y	N	Y	5	8
Bites & stings	Y	N	N	Y	Y	N	Y	N	N	4	7

*Collected by Fairfield General and Rochdale Infirmary only

CHILDHOOD INJURIES IN GREATER MANCHESTER; AN ANALYSIS OF ED DATA

This section of the report examines the burden of childhood injuries in Greater Manchester using ED data between April 2011 and March 2013. In order to support local work following the Public Health Outcome Framework (PHOF), 'childhood' shall be classed as those aged 17 and under to fit with the PHOF indicator 'hospital admissions caused by unintentional and deliberate injuries in under 18s'.

DEMOGRAPHICS

Between April 2011 to March 2013, a total of 230,003 ED injury attendances by individuals aged 0-17 were recorded across Greater Manchester EDs (Table 9). *Please note, due to errors in coding at the ED, we are unable to provide data for June and July 2011 for Manchester Royal Infirmary.*

TABLE 9. Child injury attendances to Greater Manchester EDs (April 2011 – March 2013)

Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
2011/12	11012	11075	9791	10040	8256	10020	9529	9798	7204	8207	8438	12180	115550
2012/13	9185	11605	9949	10333	8864	9938	10258	9347	7852	8316	8776	10030	114453
Total	20197	22680	19740	20373	17120	19958	19787	19145	15056	16523	17214	22210	230003

Table 10 shows the breakdown of child injury attendances by ED attended. Tameside General Hospital saw the most child injury ED attendances over the two years (34,859) compared to Wythenshawe which only saw 8,218 attendances.

TABLE 10. Greater Manchester child injury attendances by ED (April 2011 – March 2013)

ED	Attendances
Fairfield General Hospital	13856
Royal Oldham Hospital	21870
North Manchester General Hospital	23003
Rochdale Infirmary	15513
MRI	13353
Trafford General Hospital	24702
The Royal Bolton Hospital	19958
RAE	21333
Stepping Hill Hospital	20334
Wythenshawe Hospital	8218
Tameside General Hospital	34859
Salford Royal	13004
Total	230003

Across the child injury attendances made to Greater Manchester EDs (230,003), 214,620 (93%) were made by Greater Manchester residents. The highest out of region attendees came from Rossendale (1,925; 1%), Macclesfield (1,667; 1%) and Warrington (786; <1%). Table 11 shows the breakdown of attendances by local authority and which ED they attended. Many attendees went to an ED in the local authority they lived; for example 18,797 of Wigan residents attended Royal Albert Edward Infirmary (92%) and 15,171 of Bolton residents attended The Royal Bolton Hospital (96%). *The remainder of the ED section will look at Greater Manchester resident attendances only.*

TABLE 11. Greater Manchester child injury attendances by ED and Local Authority (April 2011 – March 2013)

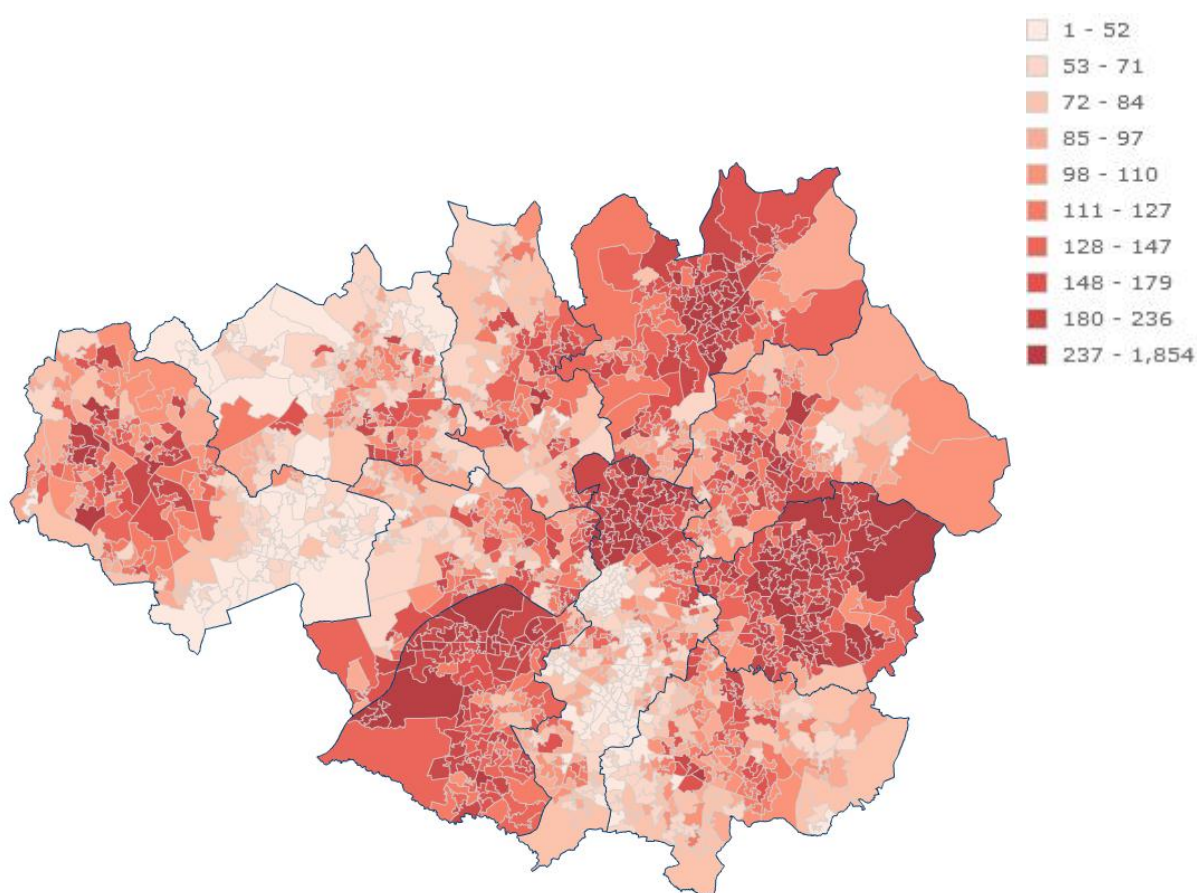
	Bolton	Bury	Manchester	Oldham	Rochdale	Salford	Stockport	Tameside	Trafford	Wigan	Total
Fairfield General Hospital	118	9102	38	48	3467	36	13	18	16	7	12863
Royal Oldham Hospital	14	33	167	18104	2863	16	<10	187	***	<10	21401
North Manchester General	28	3499	13215	772	3323	1432	23	137	40	13	22482
Rochdale Infirmary	7	27	26	93	13818	8	<10	9	8	***	14003
MRI	129	197	9048	215	163	519	556	801	964	80	12672
Trafford General Hospital	22	26	825	19	15	855	132	34	21292	36	23256
The Royal Bolton Hospital	15171	2125	18	***	11	1059	***	<10	<10	1125	19530
RAE	170	6	7	<6	6	21	***	***	12	18797	19029
Stepping Hill Hospital	7	6	245	15	8	21	17039	581	43	7	17972
Wythenshawe Hospital	14	11	3936	10	12	20	1000	41	2343	10	7397
Tameside General Hospital	19	10	338	713	34	26	168	29976	20	8	31312
Salford Royal	79	191	128	12	9	11902	16	10	86	270	12703
Total	15778	15233	27991	20010	23729	15915	18964	31804	24835	20361	214620

The highest number of attendances came from Tameside local authority (31,804; 15%) followed by Manchester local authority (27,991; 13%). Surprisingly given the relatively small number of attendances from Bury residents (15,233; 7%), the LSOA with the most attendances was in Bury 013D (1,854). Table 12 shows the top ten Lower Layer Super Output Area (LSOAs) in Greater Manchester for child injury attendances.

TABLE 12. Top 10 LSOAs in Greater Manchester ED attendances (April 2011 – March 2013)

LSOA code	LSOA name	Number of attendances
E01005060	Bury 013D	1854
E01005945	Tameside 004C	584
E01006061	Tameside 003B	492
E01005950	Tameside 013B	449
E01006189	Trafford 003D	432
E01005933	Tameside 006A	431
E01006105	Trafford 017B	430
E01006108	Trafford 017E	428
E01005566	Rochdale 012D	422
E01006159	Trafford 006C	415

CHILD INJURY ATTENDANCES BY LSOA MAP (2011-2013)



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In the financial year 2011/12 there were 107,943 child injury attendances made by Greater Manchester residents to Greater Manchester EDs. In 2012/13 this number had slightly decreased to 106,677. There were

more male (121,937; 57%) child injury attendances than female (92,677; 43%) and this was consistent across each month over the two year period (Figure 1). *Please note, six attendees did not have a gender recorded; these attendees have not been included in the totals.*

FIGURE 1. Great Manchester child injury attendances by gender (April 2011 – March 2013)

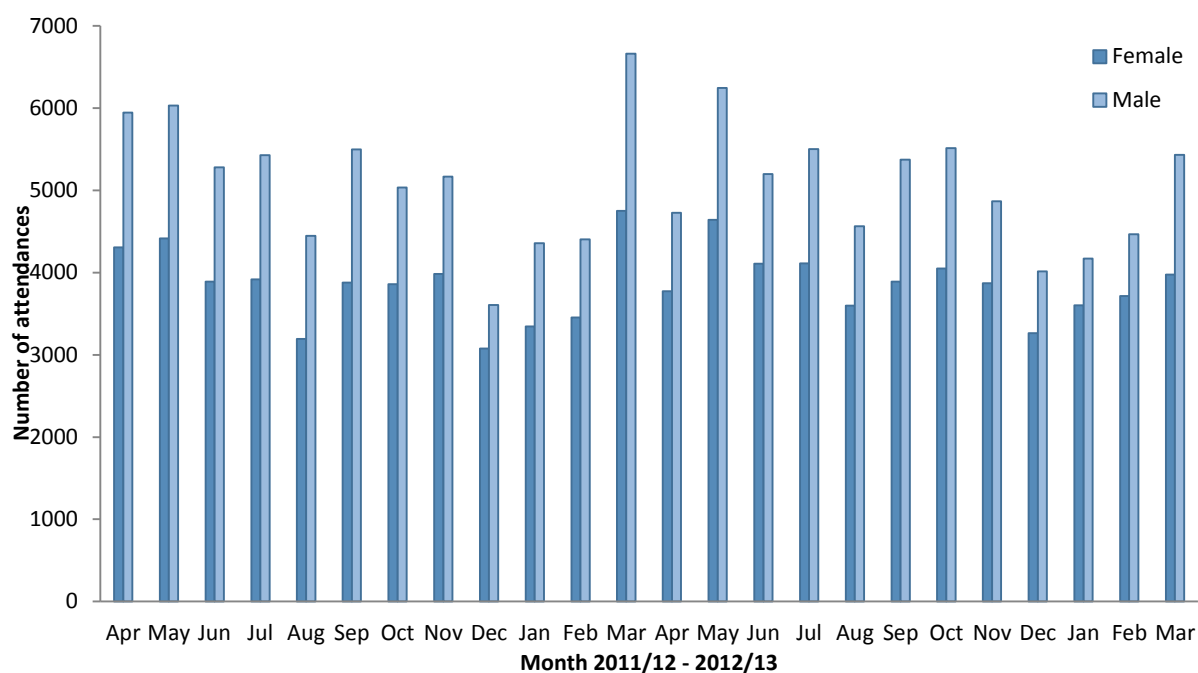


Figure 2 shows the percentage of child injury attendances from each age group. The highest proportion of injury attendances was from the 0-4 age group with 71,064 (33%). The remainder of the age groups were fairly evenly split with 48,996 (23%) aged 10 to 13 years, 47,780 (22%) aged 14 to 17 years, and 46,780 (22%) aged 5 to 9 years.

FIGURE 2. Greater Manchester child injury attendances by age group (April 2011 – March 2013)

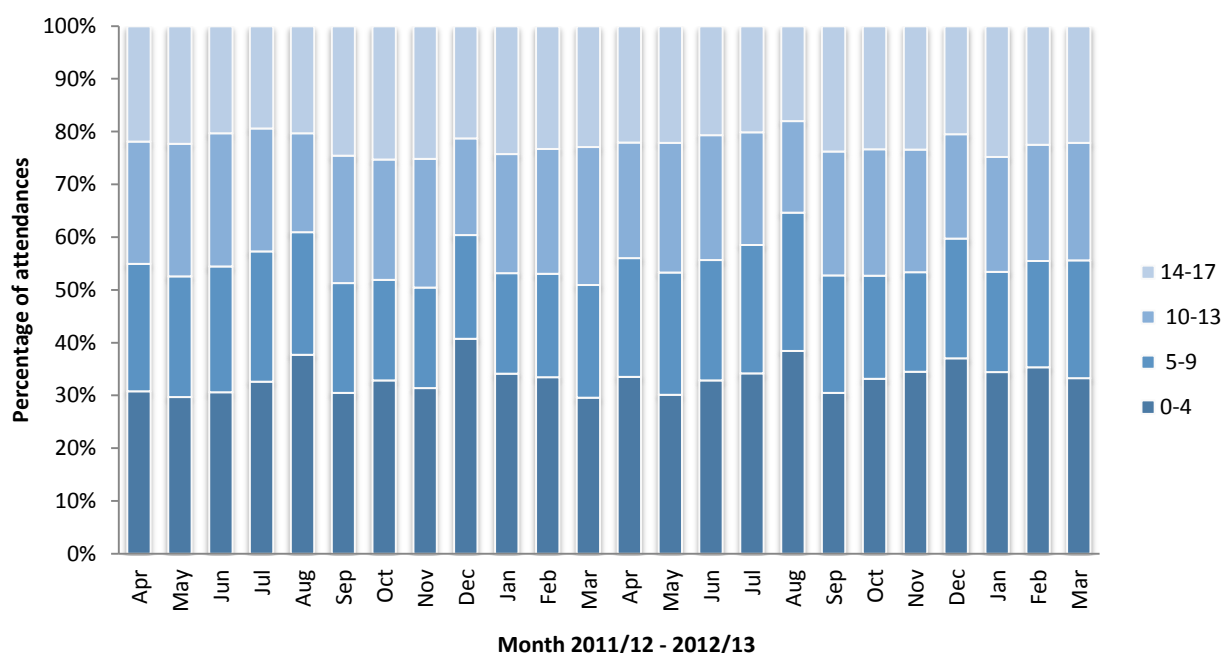


Figure 3 shows the ethnicity of child injury attendances by ED. Three quarters (161,314; 75%) of attendees were White, 8% were Pakistani and 2% were of mixed ethnic origin.

FIGURE 3. Greater Manchester child injury attendances by ethnicity and ED (April 2011 – March 2013)

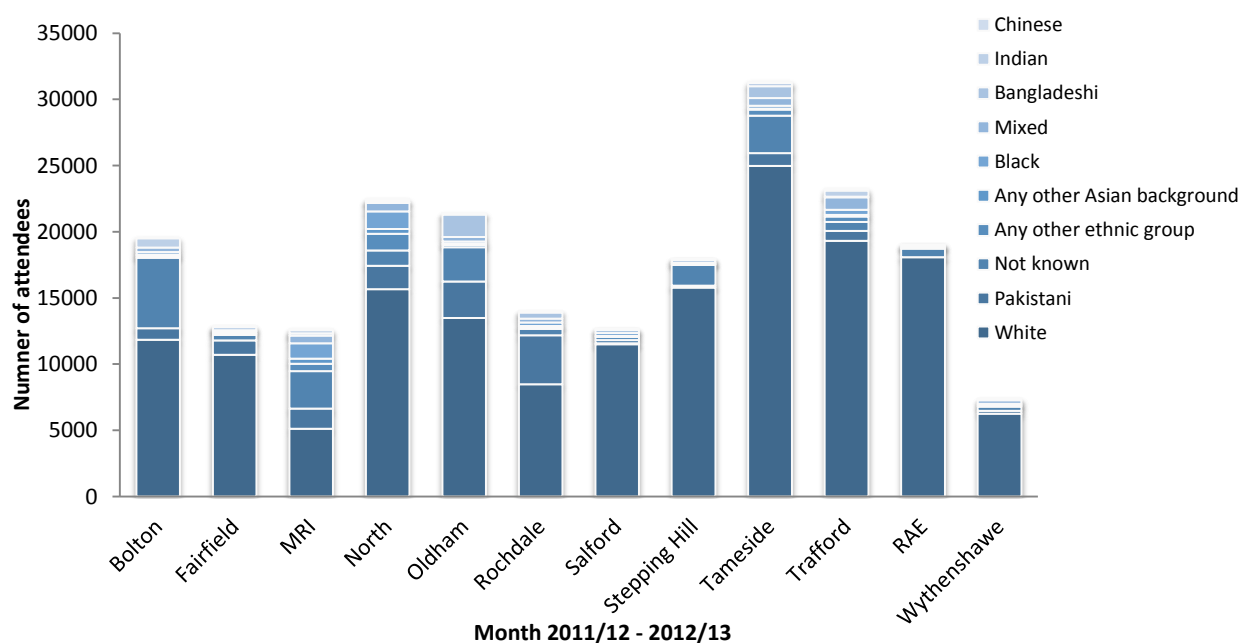


Table 13 shows the gender and age group of child injury attendances split by ED. The distribution of age groups was varied across all the EDs. Tameside General Hospital's attendances included a high proportion of 0-4 year olds (12,622; 40%) with Stepping Hill Hospital having a low proportion of 0-4 year olds (4,683; 26%). Conversely Stepping Hill Hospital's attendances include a high proportion of 14-17 year olds (4,555; 25%) compared to North Manchester General Hospital whose attendances were made up of only 18% (4,115) aged 10 – 14 years. *Please note, six attendees did not have a gender recorded, these attendees have not been included in the totals.*

Table 14 shows the gender and age group of child injury attendances split by local authority. The highest proportion of attendances from Tameside were aged 0-4 years (12,754; 40%) compared to Stockport whose attendances were made up of only 27% (5,060) aged 0-4 years. This difference in attendances between the two areas is not reflected when we look at the population averages for each age group by local authority. *Please note, six attendees did not have a gender recorded; these attendees have not been included in the totals.*

TABLE 13. Greater Manchester child injury attendances by ED, gender and age group (April 2011 – March 2013).

Age group	0-4		0-4 (%)	5-9		5-9 (%)	10-13		10-13 (%)	14-17		14-17 (%)	Total	
Gender	Male	Female		Male	Female		Male	Female		Male	Female		Male	Female
Fairfield General Hospital	2003	1470	27	1527	1233	21	1903	1593	27	1838	1296	24	7271	5592
Royal Oldham Hospital	3729	2828	31	2746	2037	22	3121	2060	24	2941	1939	23	12537	8864
North Manchester General Hospital	4652	3455	36	2992	2348	24	2775	2145	22	2444	1671	18	12863	9619
Rochdale Infirmary	2716	2000	34	1956	1554	25	1782	1242	22	1568	1185	20	8022	5981
MRI	2687	2003	37	1656	1284	23	1523	1072	20	1523	923	19	7389	5282
Trafford General Hospital	3906	2937	29	2745	2400	22	3198	2508	25	3108	2452	24	12957	10297
The Royal Bolton Hospital	4328	3109	38	2550	1665	22	2180	1397	18	2421	1880	22	11479	8051
RAE	3030	2309	28	2260	1782	21	3027	2091	27	2901	1629	24	11218	7811
Stepping Hill Hospital	2523	2160	26	2122	1772	22	2664	2176	27	2822	1733	25	10131	7841
Wythenshawe Hospital	1305	1077	32	893	694	21	1020	697	23	1096	613	23	4314	3081
Tameside General Hospital	6710	5912	40	3145	2690	19	3163	2748	19	3465	3478	22	16483	14828
Salford Royal	2450	1764	33	1536	1191	21	1631	1280	23	1656	1195	22	7273	5430
Total	40039	31024	33	26128	20650	22	27987	21009	23	27783	19994	22	121937	92677

TABLE 14. Greater Manchester child injury attendances by local authority, gender and age group (April 2011 – March 2013).

Age group	0-4		0-4 (%)	5-9		5-9 (%)	10-13		10-13 (%)	14-17		14-17 (%)	Total	
Gender	Male	Female		Male	Female		Male	Female		Male	Female		Male	Femal
Bolton	3458	2470	38	2089	1329	22	1774	1110	18	1994	1554	22	9315	6463
Bury	2615	1925	30	1936	1449	22	2144	1797	26	2000	1367	22	8695	6538
Mancheste	5503	4239	35	3584	2909	23	3467	2541	21	3491	2254	21	16045	11943
Oldham	3492	2689	31	2611	1939	23	2927	1940	24	2659	1753	22	11689	8321
Rochdale	4611	3282	33	3103	2494	24	3055	2219	22	2873	2092	21	13642	10087
Salford	3171	2304	34	1969	1520	22	2014	1525	22	1982	1430	21	9136	6779
Stockport	2728	2332	27	2234	1859	22	2783	2258	27	2945	1825	25	10690	8274
Tameside	6807	5947	40	3243	2751	19	3267	2830	19	3511	3447	22	16828	14975
Trafford	4344	3262	31	2951	2513	22	3405	2598	24	3274	2486	23	13974	10859
Wigan	3310	2574	29	2408	1887	21	3151	2191	26	3054	1786	24	11923	8438
Total	40039	31024	33	26128	20650	22	27987	21009	23	27783	19994	22	121937	92677

INJURY GROUP

Table 15 details the injury group of child injury attendances in Greater Manchester. The majority (77%) of ED childhood injury attendances were recorded as other injury (166,282), 11% as falls (22,720), 4% (9,519) as sports injuries and 3% as road traffic collisions (RTCs) (5,798). Assaults (3,697) made up only 2% and deliberate self-harm (DSH) accounted for less than 1% of all injury attendances (1,063).

Males made more than double the attendances to EDs for assaults (70%) than females (30%) whilst females represented 72% of all DSH attendances compared to just 28% of males. The distribution of injury groups were varied across the EDs. Wythenshawe and Salford both saw the highest proportion of assaults within their attendances (4% and 3% respectively).. Wythenshawe Hospital saw a much greater proportion of falls than the rest of the EDs (65%); the second highest was Salford Royal with 19%; however this may be due to the way the EDs record their data as Wythenshawe records a very low number of 'other injury' attendances in comparison to other EDs. *Please note, six attendees did not have a gender recorded, these attendees have not been included in the totals. NC=Not collected.*

TABLE 15. Greater Manchester child injury attendances by local authority, ED, gender and injury group (April 2011 – March 2013).

Injury group	Assault		Bites and stings		Burns and scalds		DSH		Fall		RTC		Sports injury		Other injury		Total	
Gender	Mal	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Local authority																		
Bolton	223	80	194	143	300	307	21	65	709	585	281	241	939	392	6648	4650	9315	6463
Bury	188	79	97	74	216	200	14	53	843	761	205	199	179	61	6953	5111	8695	6538
Manchester	463	210	130	117	273	284	44	117	2625	2132	705	606	873	263	10932	8214	16045	11943
Oldham	304	110	134	108	260	223	19	<75	1884	1398	404	343	32	<15	8652	6055	11689	8321
Rochdale	291	129	216	175	352	291	37	<100	1988	1465	362	343	10	***	10386	7581	13642	10087
Salford	290	159	100	102	203	176	45	87	1411	1148	205	155	705	257	6177	4695	9136	6779
Stockport	246	91	110	110	179	227	***	<15	1015	868	305	267	2204	816	6627	5882	10690	8274
Tameside	192	95	13	<10	5	16	47	75	1130	1014	225	239	714	331	14502	13197	16828	14975
Trafford	158	58	***	***	55	60	30	79	884	695	228	218	1265	359	11351	9388	13974	10859
Wigan	226	105	<15	18	19	24	<40	103	82	83	118	149	78	26	11351	7930	11923	8438
Total	2581	1116	1008	857	1862	1808	299	764	12571	10149	3038	2760	6999	2520	93579	72703	121937	92677
ED																		
Fairfield General Hospital	158	63	83	66	174	167	21	81	567	478	146	153	0	***	<6200	<4600	7268	5592
Royal Oldham Hospital	330	136	149	121	309	251	24	89	2076	1536	449	412	NC	NC	9200	6319	12537	8864
North Manchester General Hospital	286	126	199	174	324	293	19	58	2089	1704	406	345	NC	NC	9540	6919	12863	9619
Rochdale Infirmary	171	74	145	103	191	183	10	<30	1193	869	213	186	0	***	6099	4539	8022	5981
MRI	161	71	NC	NC	NC	NC	20	56	NC	NC	363	295	401	107	6447	4753	7392	5282
Trafford General Hospital	103	45	NC	NC	NC	NC	26	51	NC	NC	135	131	960	267	11733	9803	12957	10297
The Royal Bolton Hospital	282	101	245	187	384	376	22	70	891	742	342	301	1210	476	8103	5798	11479	8051
RAE	205	89	NC	NC	NC	NC	37	95	NC	NC	94	122	NC	NC	10882	7505	11218	7811
Stepping Hill Hospital	228	87	118	119	171	217	NC	NC	695	606	260	238	2142	775	6517	5799	10131	7841
Wythenshawe Hospital	196	73	NC	NC	162	191	23	<70	2655	2143	277	257	999	343	***	<10	4314	3081
Tameside General Hospital	183	91	NC	NC	NC	NC	49	71	1115	1007	194	203	635	313	14307	13143	16483	14828
Salford Royal	278	160	69	87	147	130	48	99	1290	1064	159	117	652	237	4630	3536	7273	5430
Total	2581	1116	1008	857	1862	1808	299	764	12571	10149	3038	2760	6999	2520	93579	72703	121937	92677

Table 16 shows the age and gender of children presenting with different injuries in Greater Manchester. Males aged between 14 and 17 years of age made up 50% of all assault cases (1,866). Children aged between 0-4 years made up 58% of all burn and scalds injuries and 45% of all fall attendances. The vast majority of DSH attendances were aged 14-17 years (904; 85%). *Please note, six attendees did not have a gender recorded, these attendees have not been included in the totals.*

TABLE 16. Greater Manchester child injury attendances by gender and age group (April 2011 – March 2013)

Age group	0-4		5-9		10-13		14-17		Total	
Gender	Male	Female	Male	Female	Male	Female	Male	Female	Male total	Female
Assault	42	<50	110	<40	563	210	1866	827	2581	1116
Bites and stings	284	217	256	250	223	177	245	213	1008	857
Burns and scalds	1150	969	273	291	219	220	220	328	1862	1808
DSH	10	***	9	***	47	85	233	671	299	764
Fall	5711	4479	3012	2501	2458	1933	1390	1236	12571	10149
RTC	812	711	717	622	614	594	895	833	3038	2760
Sports injury	175	104	832	400	2550	1191	3442	825	6999	2520
Other injury	31855	24494	20919	16549	21313	16599	19492	15061	93579	72703
Total	40039	31024	26128	20650	27987	21009	27783	19994	121937	92677

LOCATION

Table 17 details the injury group of child injury attendances in Greater Manchester by location of incident. Almost four in ten (83,794; 39%) of injuries took place in the home, 12% of injuries (26,729) took place in an educational establishment. With the exception of an 'other' location, the majority of DSH took place in the home (472; 44%). The majority of assaults took place in a public place (1,242; 34%) and the home (588; 16%). There were also a relatively high number of assaults which occurred in an education establishment (435; 12%). Falls most often occurred in the home (10,260; 45%). *Please note, six attendees did not have a gender recorded, these attendees have not been included in the totals.*

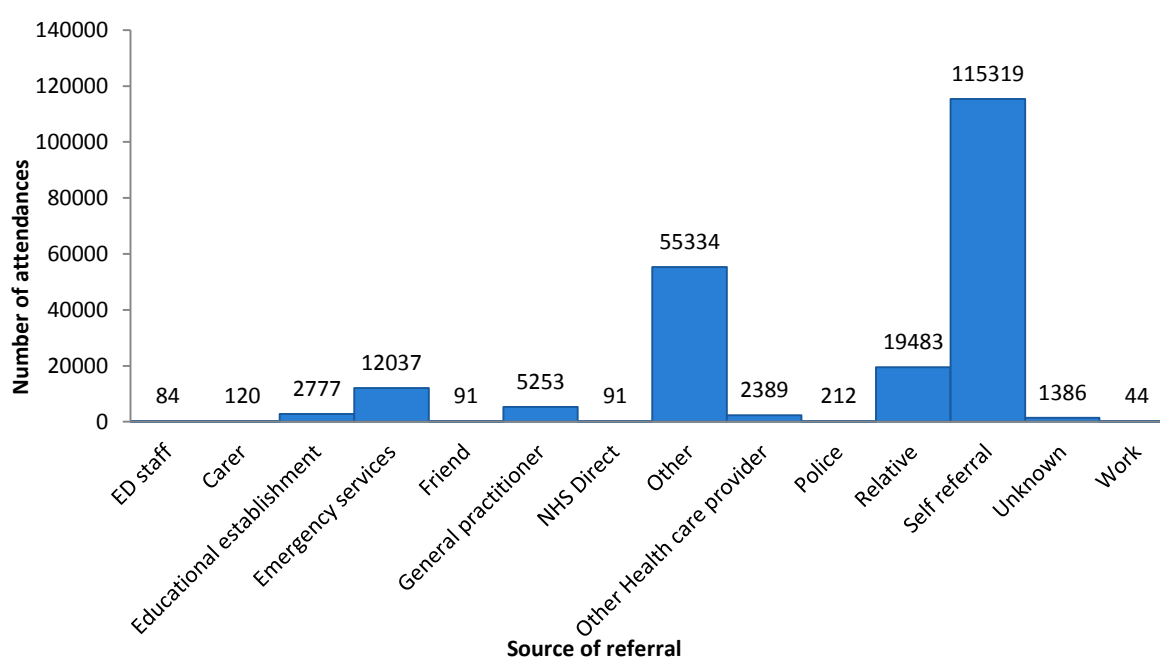
TABLE 17. Greater Manchester child injury attendances by gender and injury location (April 2011 – March 2013)

Location	Educational establishment		Home		Public place		Work		Other		Total	
Gender	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Assault	337	98	384	204	905	337	0	0	955	477	2581	1116
Bites and stings	22	<20	513	443	202	130	6	***	265	262	1008	857
Burns and scalds	36	41	1282	1253	71	44	7	18	466	452	1862	1808
DSH	9	36	108	364	16	<30	0	***	166	334	299	764
Fall	1766	1290	5484	4776	2073	1429	9	6	3239	2648	12571	10149
RTC	12	***	212	204	279	230	0	0	2535	2323	3038	2760
Sports injury	885	427	<470	197	502	102	***	0	5149	1794	6999	2520
Other injury	13157	8591	36806	31102	8511	5510	254	131	34851	27369	93579	72703
Total	16224	10505	45251	38543	12559	7811	277	159	47626	35659	121937	92677

SOURCE OF REFERRAL

Figure 4 shows the source of referral for child injury attendances in Greater Manchester. The majority of attendees (115,319; 54%) self-referred. Almost one in ten (9%) were brought in by a relative such as a parent.

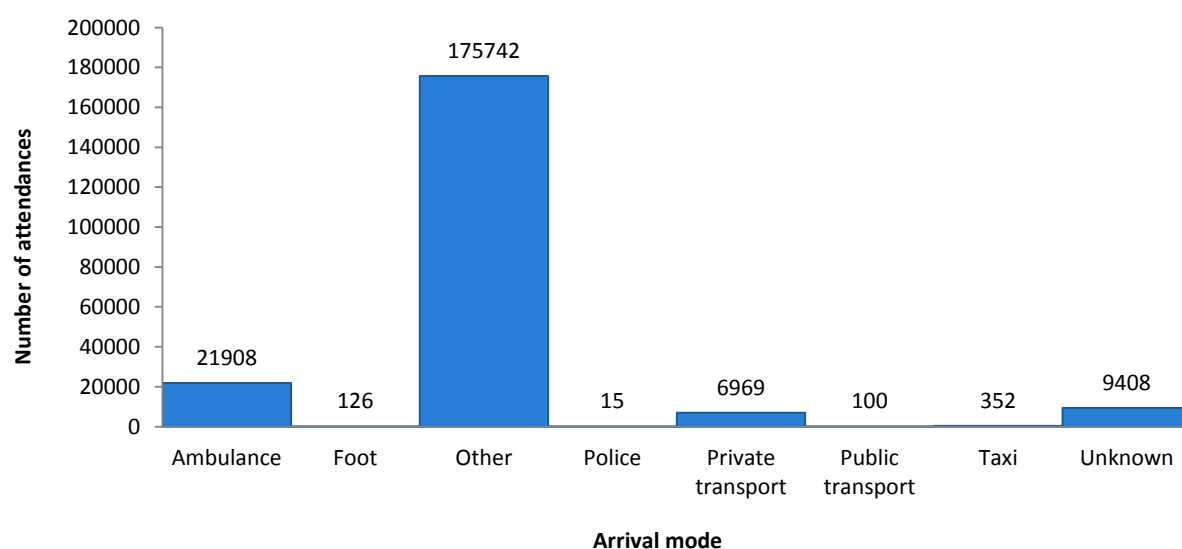
FIGURE 4. Greater Manchester child injury attendances by source of referral (April 2011 – March 2013).



ARRIVAL MODE

Figure 5 shows the arrival mode for child injury attendances in Greater Manchester. The majority of attendees (175,742; 82%) arrived by an 'other' method. One in ten (10%) arrived by ambulance.

FIGURE 5. Greater Manchester child injury attendances by arrival mode (April 2011 – March 2013)



DISCHARGE METHOD

The disposal of a patient from an ED gives an indication of the severity of the injuries (Table 18). Fewer than one in ten injuries amongst children from Greater Manchester were admitted (14,696; 7%) and almost six in ten (124,378; 58%) were discharged. Both Manchester Royal Infirmary and Tameside General Hospital saw a high proportion of children admitted (1,878; 15% and 4,191; 13% respectively) into hospital. Further investigation would be needed to ascertain why higher hospital admission levels are seen in these EDs.

TABLE 18. Greater Manchester child injury attendances by discharge method, local authority and ED (April 2011 – March 2013).

Discharge method	Admitted		Discharged		Referral		Other		Total
	N	%	N	%	N	%	N	%	N
Local authority									
Bolton	1229	8	9729	62	4372	28	448	3	15778
Bury	934	6	10108	66	4064	27	127	1	15233
Manchester	1994	7	17853	64	7767	28	377	1	27991
Oldham	1349	7	13598	68	4904	25	159	1	20010
Rochdale	1227	5	15846	67	6544	28	112	0	23729
Salford	1300	10	9795	77	4522	36	298	2	12703
Stockport	579	3	13300	70	4668	25	417	2	18964
Tameside	4228	13	7672	24	19344	61	560	2	31804
Trafford	975	4	13556	55	10009	40	295	1	24835
Wigan	881	4	12921	63	6409	31	150	1	20361
Total	14696	7	124378	58	72603	34	2943	1	214620
ED									
Fairfield General Hospital	581	5	8918	69	3316	26	48	0	12863
Royal Oldham Hospital	1500	7	14803	69	4931	23	167	1	21401
North Manchester General Hospital	1486	7	14812	66	6032	27	152	1	22482
Rochdale Infirmary	381	3	9513	68	4063	29	46	0	14003
MRI	1878	15	7084	56	3484	27	226	2	12672
Trafford General Hospital	693	3	12352	53	9975	43	236	1	23256
The Royal Bolton Hospital	1468	8	12023	62	5460	28	579	3	19530
RAE	710	4	12144	64	6075	32	100	1	19029
Stepping Hill Hospital	443	2	12853	72	4275	24	401	2	17972
Wythenshawe Hospital	442	6	5034	68	1735	23	186	3	7397
Tameside General Hospital	4191	13	6840	22	19718	63	563	2	31312
Salford Royal	923	7	8002	63	3539	28	239	2	12703
Total	14696	7	124378	58	72603	34	2943	1	214620

CHILDHOOD INJURIES IN GREATER MANCHESTER; AN ANALYSIS OF AMBULANCE CALL OUT DATA

Between April 2011 and March 2013 there were 16,285 ambulance call outs for injuries in 0-17 year olds (Table 19). In the financial year 2011/12 there were 8,251 ambulance call out attendances for children in Greater Manchester. In 2012/13 this number had slightly decreased by around 3% to 8,034. The most common call outs were for falls (6,137; 38%), traumatic injuries (3,649; 22%), traffic/transportation accidents (1,631; 10%) and overdose/poisoning (1,662; 10%) (Table 19).

TABLE 19. Greater Manchester injury group ambulance callouts (April 2011 – March 2013)

Injury group	Number of call outs
Animal bites/attacks	109
Assault/sexual assault	652
Burns(scolds)/explosion	509
Choking	778
Drowning (near)/diving accident	20
Electrocution/lightning	11
Eye problems/injuries	80
Falls	6137
Overdose/poisoning (ingestion)	1662
Psychiatric/suicide attempt	906
Stab/gunshot/penetrating trauma	141
Traffic/transportation accidents	1631
Traumatic injuries (specific)	3649
Total	16285

The majority of ambulance call outs in the 0-17 year age group were in Manchester (3,774; 23%), followed by Wigan (1,780; 11%), Bolton (1,590; 10%), Stockport (1,477; 9%) and Oldham (1,410; 9%). Bury accounted for only 1,077 call outs (7%) and Trafford for 1,142 (7%). Interestingly given the relatively small number of call outs in Trafford, the LSOA with the most call outs was in Trafford 002E (109). Table 20 shows the top ten LSOAs in Greater Manchester for ambulance call outs.

TABLE 20. Top 10 LSOAs in Greater Manchester ambulance callouts (April 2011 – March 2013)

LSOA code	LSOA name	Number of call outs
E01006121	Trafford 002E	109
E01005131	Manchester 014C	102
E01005486	Rochdale 010F	69
E01005482	Rochdale 010C	56
E01005758	Stockport 014B	55
E01005096	Manchester 015B	47
E01005024	Bury 008E	45
E01005194	Manchester 027A	45
E01004821	Bolton 016A	44
E01005108	Manchester 017A	39

Almost four in ten call outs were for children aged 0 to 4 years of age (6,259; 38%) and 30% were for those aged 14 to 17 years (4,875). The majority of choking callouts were for the 0 to 4 year age group (662, 85%) and most psychiatric/suicide attempt (767; 85%) and overdose/poisoning (1,153; 69%) call outs were for 14 to 17 year olds. Seventy-three per cent of assault/sexual assault call outs were for those in the 14 to 17 year age group (Table 21).

Across the two year period 58% (9,437) ambulance call outs involved males (Table 22), 42% (6,781) were for females whilst 67 (<1%) had their gender recorded as unknown. Males recorded more ambulance call outs in all injury groups with the exception of overdose and poisoning (females = 65%) and psychiatric/suicide attempt (females = 62%). Males accounted for two thirds (431; 66%) of assault/sexual assault call outs and 65% (1,062) of traffic/transportation accidents.

TABLE 21. Greater Manchester ambulance callouts by injury group, local authority and age group (April 2011 – March 2013)

Local authority	Bolton				Bury				Manchester				Oldham				Rochdale			
Age group	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17
Animal Bites/Attacks	9	***	***	***	***	***	***	***	5	9	6	***	***	***	***	***	6	***	0	***
Assault/Sexual Assault	***	0	10	48	***	0	7	24	10	11	25	123	***	***	10	52	6	6	12	42
Burns(Scolds)/Explosion	24	***	***	7	25	***	***	***	93	12	***	20	23	7	***	***	43	6	5	***
Choking	58	5	***	5	30	***	***	***	147	11	***	12	63	9	***	***	53	6	***	0
Drowning (Near)/Diving Accident	***	***	0	0	0	0	0	0	***	***	0	0	0	***	***	***	0	***	0	0
Electrocution/Lightning	0	0	0	0	***	0	0	0	***	0	***	***	***	0	0	***	0	0	0	***
Eye Problems/Injuries	***	***	0	***	5	***	0	0	17	7	***	***	***	***	0	0	<6	0	0	***
Falls	292	132	97	103	217	87	69	51	725	282	192	179	262	106	81	75	223	82	79	75
Overdose/Poisoning (Ingestion)	29	***	11	119	17	***	7	77	94	14	29	269	22	***	14	96	36	***	14	101
Psychiatric/Suicide Attempt	0	***	20	71	0	0	***	48	***	<10	20	187	***	***	10	58	0	***	7	83
Stab/Gunshot/Penetrating Trauma	***	***	5	9	***	0	***	***	9	8	5	24	***	***	***	6	***	0	***	7
Traffic/Transportation Accidents	25	62	38	50	19	26	37	46	69	92	109	109	28	51	53	37	22	30	40	40
Traumatic Injuries (Specific)	115	67	56	86	82	41	55	69	346	161	131	182	105	53	59	79	115	68	57	71
Total	563	281	246	500	403	164	185	325	1518	615	529	1112	519	244	235	412	510	205	220	424

TABLE 21 CONTINUED. Greater Manchester ambulance callouts by injury group, local authority and age group (April 2011 – March 2013)

Local authority	Salford				Stockport				Tameside				Trafford				Wigan			
Age group	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17	0-4	5-9	10-13	14-17
Animal bites/attacks	***	***	***	5	0	0	0	0	8	***	***	***	0	***	***	0	6	8	***	***
Assault/sexual assault	7	***	7	28	***	***	9	32	***	***	7	40	***	***	7	15	***	***	11	69
Burns(scolds)/explosion	44	5	6	***	33	***	***	***	29	5	***	***	14	6	***	***	39	9	***	***
Choking	75	***	***	6	49	***	***	***	50	5	5	0	57	***	***	***	80	5	5	***
Drowning (near)/diving accident	***	0	0	***	0	***	0	***	0	0	0	***	0	0	0	0	***	0	***	0
Electrocution/lightning	0	0	0	0	0	0	***	0	0	***	0	0	0	0	0	0	0	0	0	0
Eye problems/injuries	6	***	0	***	***	***	0	0	***	0	***	***	***	0	0	0	***	***	0	***
Falls	287	107	70	64	299	102	103	77	289	96	74	80	235	93	73	69	307	115	92	96
Overdose/poisoning (ingestion)	33	***	8	91	26	***	12	115	23	***	10	74	23	***	5	62	50	***	11	149
Psychiatric/suicide attempt	***	0	6	50	0	5	15	93	0	***	9	57	0	***	8	39	***	***	12	81
Stab/gunshot/penetrating trauma	0	0	***	10	***	0	0	8	0	***	***	5	0	0	***	***	***	***	***	6
Traffic/transportation accidents	29	41	24	34	23	39	39	37	13	29	32	27	16	19	38	31	25	47	45	60
Traumatic injuries (specific)	111	69	45	74	112	68	55	94	117	63	57	72	80	65	69	84	123	76	94	123
Total	596	236	172	369	548	226	239	464	531	205	201	366	431	194	208	309	640	267	279	594

TABLE 22. Greater Manchester ambulance callouts by injury group, local authority and gender (April 2011 – March 2013)

Local authority	Bolton			Bury			Manchester			Oldham			Rochdale		
Age group	Female	Male	Unknown	Female	Male	Unknown	Female	Male	Unknown	Female	Male	Unknown	Female	Male	Unknown
Animal bites/attacks	9	9	0	***	***	0	12	12	0	***	***	0	***	6	0
Assault/sexual assault	22	38	0	7	28	0	65	103	***	19	50	***	17	48	***
Burns(scolds)/explosion	18	19	***	18	15	0	63	66	0	17	16	0	15	40	***
Choking	39	30	0	18	18	0	81	93	0	39	38	0	23	38	0
Drowning (near)/diving accident	***	***	0	0	0	0	***	***	0	0	***	0	0	***	0
Electrocution/lightning	0	0	0	***	0	0	***	***	0	***	***	0	0	***	0
Eye problems/injuries	***	***	0	***	<6	0	10	19	0	***	***	0	***	5	0
Falls	249	374	***	178	245	***	564	810	***	196	328	0	174	285	0
Overdose/poisoning (ingestion)	101	61	0	74	28	0	254	151	***	101	34	0	98	56	0
Psychiatric/suicide attempt	59	32	***	34	18	0	123	92	0	53	21	0	58	34	0
Stab/gunshot/penetrating trauma	5	13	0	***	5	0	10	36	0	***	10	0	***	9	0
Traffic/transportation accidents	47	124	***	39	86	***	138	234	7	53	111	<6	45	85	***
Traumatic injuries (specific)	112	211	***	87	160	0	273	544	***	105	191	0	99	212	0
Total	666	916	8	461	612	***	1595	2163	16	593	811	6	535	820	***

TABLE 22 CONTINUED. Greater Manchester ambulance callouts by injury group, local authority and gender (April 2011 – March 2013)

Local authority	Salford			Stockport			Tameside			Trafford			Wigan		
Age group	Female	Male	Unknown	Female	Male	Unknown	Female	Male	Unknown	Female	Male	Unknown	Female	Male	Unknown
Animal bites/attacks	***	8	0	0	0	0	6	7	0	***	***	0	8	12	0
Assault/sexual assault	15	27	***	15	32	0	24	26	0	7	19	0	25	60	***
Burns(scolds)/explosion	25	34	0	24	18	0	20	21	0	10	16	0	19	33	0
Choking	46	40	0	27	28	0	22	38	0	29	38	0	42	50	***
Drowning (near)/diving accident	***	***	0	***	***	0	***	***	0	0	0	0	***	0	0
Electrocution/lightning	0	0	0	***	0	0	***	0	0	0	0	0	0	0	0
Eye problems/injuries	***	<10	0	***	***	0	***	***	0	***	***	0	***	***	0
Falls	209	319	0	213	368	0	227	311	***	187	281	***	240	369	***
Overdose/poisoning (ingestion)	97	39	0	105	50	0	68	40	0	53	40	0	127	84	0
Psychiatric/suicide attempt	35	22	0	71	42	0	51	16	0	22	27	0	58	37	0
Stab/gunshot/penetrating trauma	***	10	0	***	8	0	0	7	0	***	***	0	8	<6	0
Traffic/transportation accidents	47	78	***	40	94	***	35	65	***	34	64	6	53	121	***
Traumatic injuries (specific)	100	198	***	120	209	0	115	192	***	101	196	***	125	290	***
Total	584	784	5	619	854	***	571	728	***	449	684	9	708	1065	7

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