

## Summary of childhood injuries in Lincolnshire – 2014/15

Using the HSCIC Hospital Episode Statistics (HES) dataset, the following summary looks at all accident and emergency (A&E) attendances for children aged between 0 and 5 (inclusive) who are usually resident or have received treatment in Lincolnshire. In place of any published indicator around A&E attendances due to accidents, a proxy measure has been adopted where any attendances with an A&E diagnosis code of between 1 and 16 have been grouped into the category of 'Accidental'. *Please note that as at the time of writing, 2014/15 HES data is considered provisional.*

Further analysis has been provided using the 2015 England Index of Multiple Deprivation (IMD) to determine if there is any correlation between childhood A&E attendances and levels of socio-economic deprivation.

Where single years of age are known, age-specific crude rates have been calculated, using ONS mid-2013 population estimates, by single year of age and shown per 1,000 of the resident population of 0-5 year olds.

### Highlights

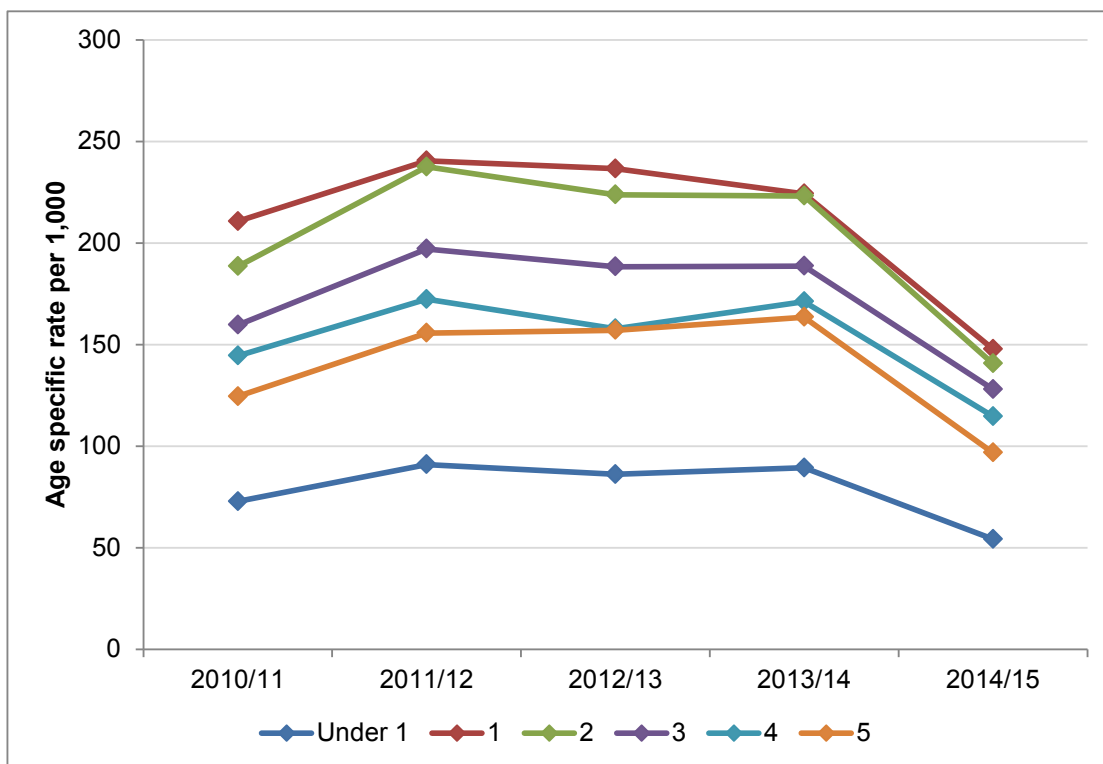
- In 2014/15, Lincolnshire had 5,453 A&E attendances where the patient was a child aged 5 and under. This equates to 114 in every 1,000 children aged under 5.
- 57% of A&E attendances in 2014/15 were for boys; however Boston, South Holland and West Lindsey had higher proportions of boys admitted to A&E.
- Despite an increase between 2010/11 and 2011/12, rates have seen a decline over the past five years with a noticeable dip in attendance rates in 2014/15. Attendances among 1 year olds have fallen by 30% since 2010/11; however at 148 per 1,000 in 2014/15, this represents the most attended age group. Comparatively, rates for under 1's and 5 year olds are much lower.
- Rates of A&E attendance are markedly higher in East Lindsey (173 per 1,000) and West Lindsey (160 per 1,000).
- There is a clear pattern between A&E attendances in children and the extent of socio-economic deprivation based on where they live. Rates of A&E attendances are higher in the most deprived quintile of households in Lincolnshire (153 per 1,000) with rates reducing as households become less deprived. 35% of the children who attended A&E in 2014/15 reside in areas ranked as the top 30% most deprived in England.
- During 2014/15, children were admitted with 15 out of 16 of the accident diagnosis conditions, with lacerations and head injuries being the most common primary diagnoses on attendance. For some conditions that can be broken down further into sub-categories, non-specific head injuries, contusions and thermal burns/scalds make up the highest proportion of attendances.
- 4.4% of attendances among 0-5 year olds were due to poisoning, which include by ingestion of prescriptive, proprietary and controlled drugs as well as alcohol and other harmful substances.

**Table 1:** A&E attendances in children aged 5 and under due to accidents, Lincolnshire: 2014/15

Year of age	A&E attendances		
	Number	Local 0-5 population	Age specific rate per 1,000
Under 1	416	7,669	54
1	1,159	7,843	148
2	1,161	8,254	141
3	1,042	8,142	128
4	915	7,980	115
5	760	7,849	97
<b>Total 0-5's</b>	<b>5,453</b>	<b>47,737</b>	<b>114</b>

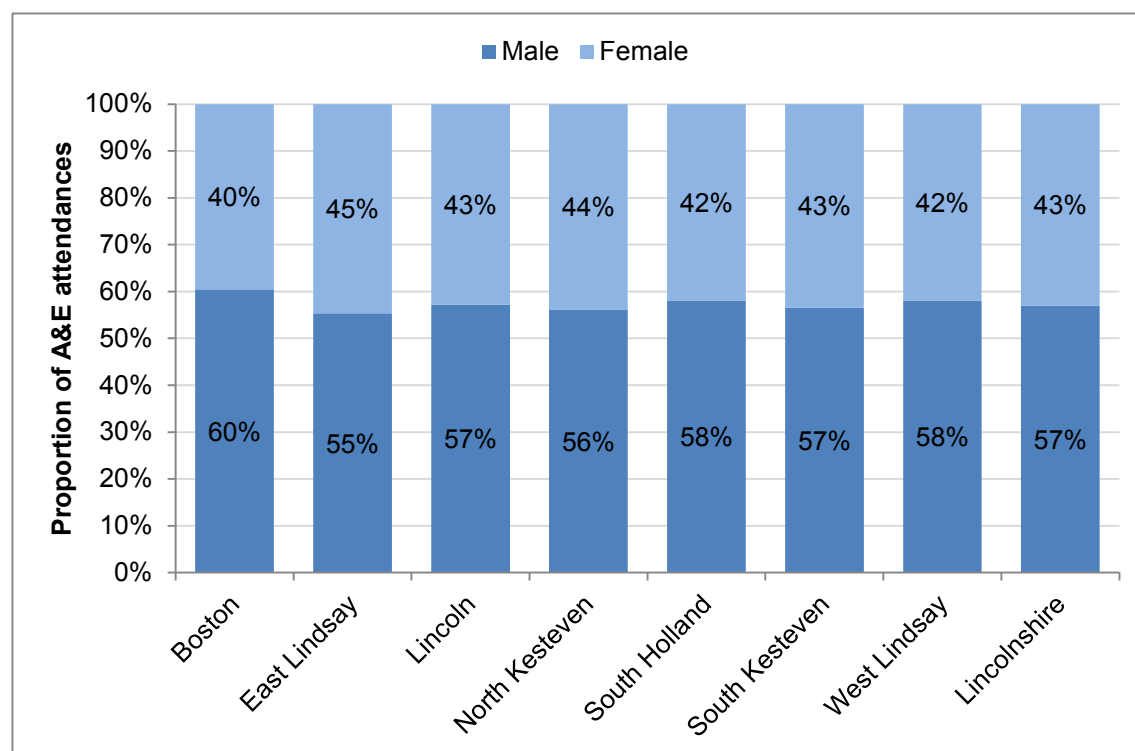
Source: HSCIC, Hospital Episode Statistics; ONS, Mid-year population estimates (2013)

**Figure 1:** Trend of A&E attendances in children aged 5 and under due to accidents, Lincolnshire, age-specific rate per 1,000: 2010/11 to 2014/15



Source: HSCIC, Hospital Episode Statistics; ONS, Mid-year population estimates

**Figure 2:** Proportion of A&E attendances in children aged 5 and under due to accidents, by gender and District: 2014/15



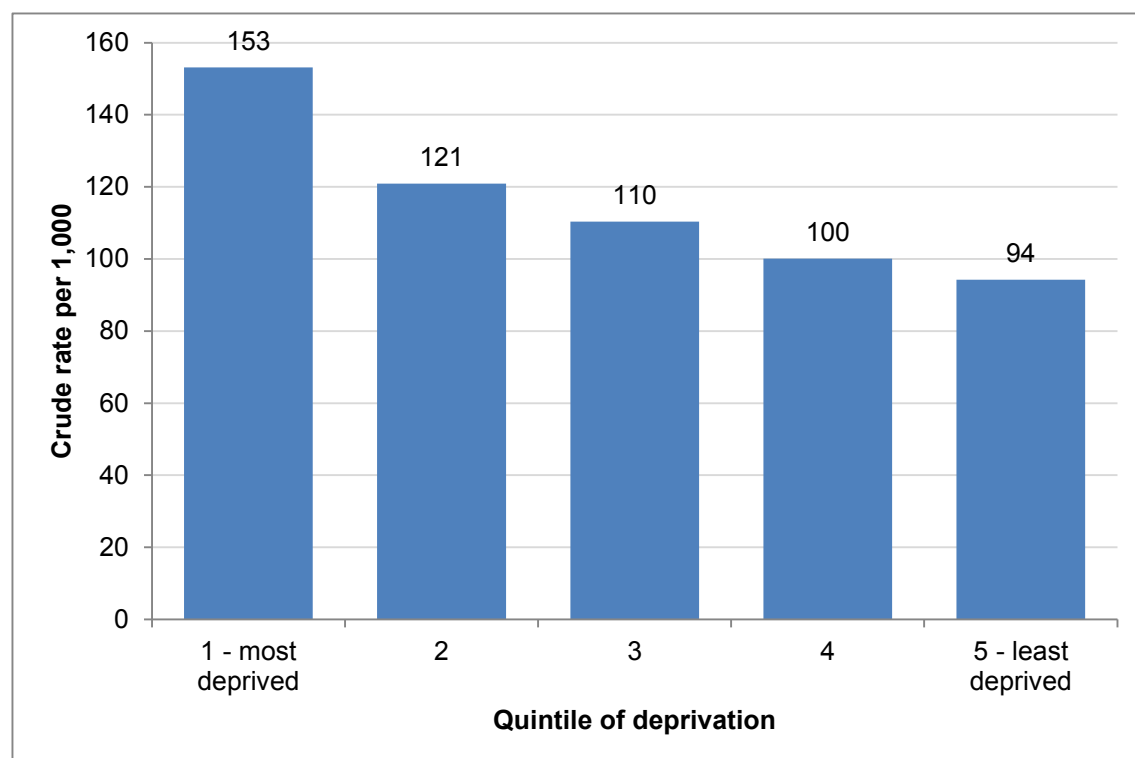
Source: HSCIC, Hospital Episode Statistics

**Table 2:** A&E attendances in children aged 5 and under due to accidents, by District, Lincolnshire, crude rate per 1,000: 2014/15

District	A&E attendances		
	Number	Local population	Crude rate per 1,000
Boston	329	5,037	65
East Lindsay	1,344	7,785	173
Lincoln	617	6,936	89
North Kesteven	452	7,015	64
South Holland	759	5,751	132
South Kesteven	1,064	9,166	116
West Lindsay	888	5,536	160

Source: HSCIC, Hospital Episode Statistics; ONS, Mid-year population estimates (2013)

**Figure 3:** A&E attendances in children aged 5 and under due to accidents, by quintile of deprivation, Lincolnshire, crude rate per 1,000: 2014/15



Source: HSCIC, Hospital Episode Statistics; ONS, Mid-year population estimates; DCLG, IMD 2015

**Table 3:** A&E attendances in children aged 5 and under due to accidents, by primary diagnosis condition, Lincolnshire: 2014/15

Description	Attendances	
	Number	Proportion
Laceration	1,557	28.6%
Head injury	1,145	21.0%
Foreign body	478	8.8%
Contusion/abrasion	475	8.7%
Soft tissue inflammation	397	7.3%
Dislocation/fracture/joint injury/amputation	348	6.4%
Sprain/ligament injury	320	5.9%
Burns and scalds	297	5.4%
Poisoning (including overdose)	238	4.4%
Bites/stings	139	2.5%
Muscle/tendon injury	49	0.9%
Electric shock	6	0.1%
Near drowning	2	0.0%
Visceral injury	1	0.0%
Nerve injury	1	0.0%
<b>Total</b>	<b>5,453</b>	

Source: HSCIC, Hospital Episode Statistics

**Table 4:** A&E attendances in children aged 5 and under due to accidents, by primary diagnosis condition and sub-analysis, Lincolnshire: 2014/15

Description	Attendances	
	Number	Proportion
Burns and scalds - chemical	5	0.2%
Burns and scalds - electric	12	0.6%
Burns and scalds - radiation	9	0.4%
Burns and scalds - thermal	249	12.2%
Contusion/abrasion - abrasion	112	5.5%
Contusion/abrasion - contusion	282	13.8%
Dislocation/fracture/joint injury/amputation - amputation	8	0.4%
Dislocation/fracture/joint injury/amputation - closed fracture	196	9.6%
Dislocation/fracture/joint injury/amputation - dislocation	52	2.5%
Dislocation/fracture/joint injury/amputation - joint injury	43	2.1%
Dislocation/fracture/joint injury/amputation - open fracture	21	1.0%
Head injury - concussion	38	1.9%
Head injury - other head injury	803	39.3%
Poisoning (including overdose) - controlled drugs	5	0.2%
Poisoning (including overdose) - other, including alcohol	154	7.5%
Poisoning (including overdose) - prescriptive drugs	40	2.0%
Poisoning (including overdose) - proprietary drugs	13	0.6%
<b>Total</b>	<b>2,042</b>	

Source: HSCIC, Hospital Episode Statistics

**Created by the Public Health Intelligence Team, November 2015**

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