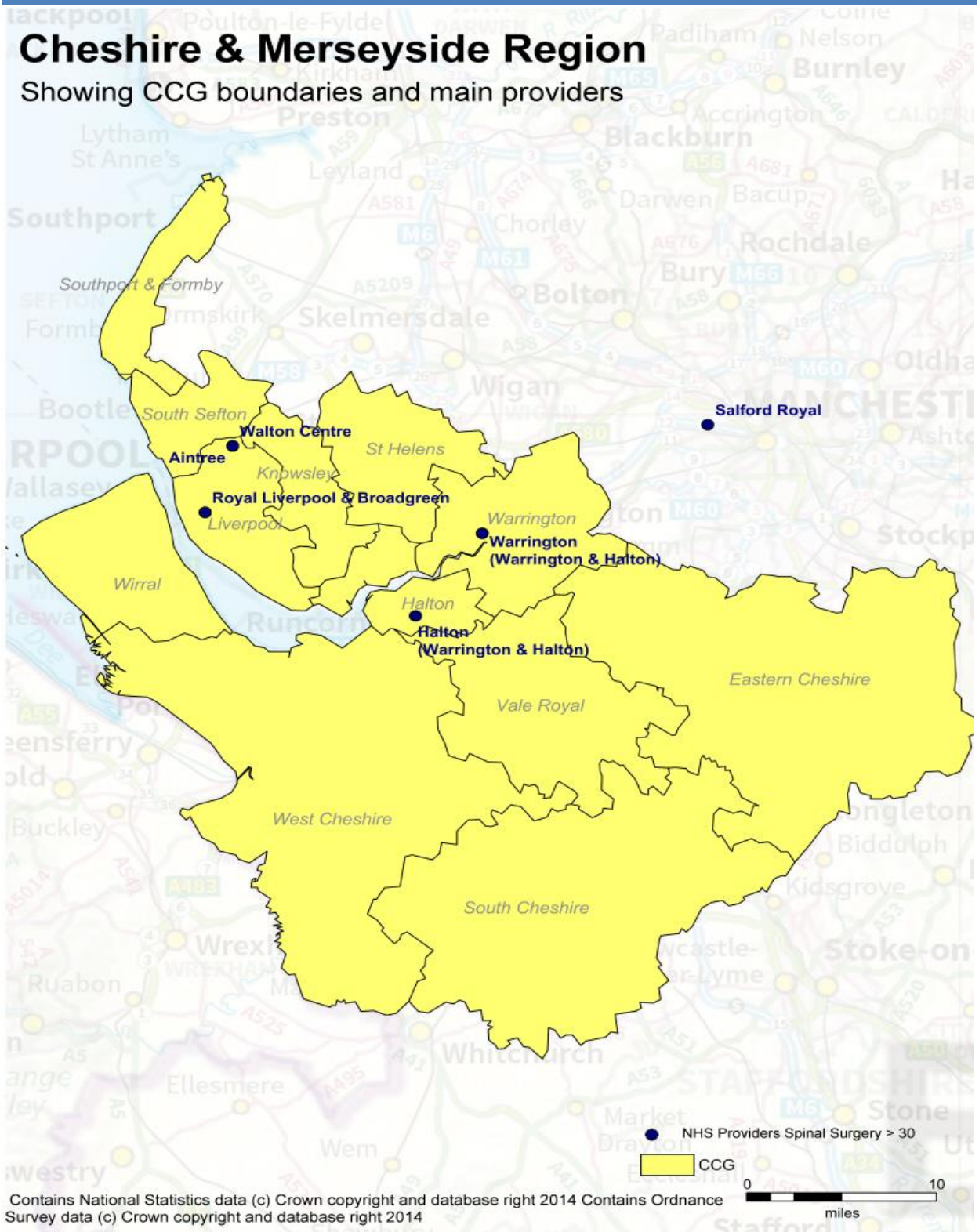
Back Pain Report

Liverpool

June 2016



NEQOS Back Pain Report

This back pain report contains health intelligence produced by NEQOS to support the implementation of the national pathfinder project to provide better pathways of care for people with low back and radicular pain. The NHS England Pathfinder Projects were established to address high value care pathways which cross commissioning and health care boundaries. Many conditions require a pathway of care which moves from the general practitioner through primary care and community services and into secondary care and sometimes specialised services. Difficulties in commissioning across boundaries, however, can cause artificial interruptions in what should be a seamless care pathway. The Pathfinder Projects are designed for all Stakeholders to work collaboratively to examine in depth these health care interfaces and to develop commissioning structures to commission care across the whole pathway. The Trauma Programme of Care Board selected low back pain and radicular pain as the Pathfinder Project as this is a high value care pathway in view of the very large number of patients involved.

The future of the pathway is that it is designed to be run in primary care (general practice and community physiotherapy) and referral into secondary specialist care is only at the end of the pathway. Key to the success of the pathway are the Triage and Treat practitioners; the highly trained practitioners, either extended scope physiotherapists or nurse specialists who essentially run the pathway and have access to bookable slots for the core therapies, nerve root blocks, spinal surgical clinic appointments or pain clinic appointments. This reduces very significantly the delays in the previous system and also reduces the "pinball" management that is a feature of so many health care systems. Quality care is less expensive by reducing ineffective or repetitive treatment and by reducing conversion into chronic disability

In this profile, the current utilisation of secondary care services for back and radicular pain are shown by CCG and providers, including both NHS Trusts and Independent Sector providers to demonstrate variation in activity regionally and across England. This report is based on the population of patients under the care of CCGs in the Cheshire & Merseyside Region and provides important information about patient flows from these CCGs across all providers within this region.

Information on hospital admissions is presented by admission method (elective vs. emergency) and type of procedure (surgery, injections, pain management etc.) undertaken. The aim of this report is to assist both clinicians and commissioners in comparing treatment activity rates between regional providers and against national data to reduce variation and develop evidence based care pathways to improve patient outcomes.

Ongoing monitoring of this secondary care activity will evidence where changes implemented through the national pathfinder project for acute low back and radicular pain to provide timely access to evidence based treatments can improve the quality of patient care, provide community based alternatives to secondary care admissions for back pain and reduce secondary care expenditure.

It is important to note that this report is based on the cohort of patients with back and/or radicular pain but does not include patients who have back pain due to specific diagnosis such as cancer, infection, spinal trauma, inflammatory arthritis, cauda equine syndrome as these patients have very different treatment pathways of care.

Acknowledgements

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Acknowledgements to the Health & Social Care Information Centre (HSCIC) as the source of data used in this report and to Professor Greenough and Mr Ashley Cole for their expert clinical guidance and advice.

Introduction and background

Low back pain is extremely common and is the largest single cause of loss of disability adjusted life years, and the largest single cause of years lived with disability in England (Global Burden of Disease, 2013). In terms of disability adjusted life years lost per 100,000, low back pain is responsible for 2,313. By contrast the remainder of musculo-skeletal complaints counts for 911, depression 704 and diabetes 337. It should be borne in mind that this is principally occurring in people of working age, or with families. UK specific data shows that LBP was top cause of years lived with disability in both 1990 and 2010 – with a 12% increase over this time. Back pain accounts for 11% of the entire disability burden from all diseases in the UK; furthermore the burden is increasing both absolutely (3.7% increase) and proportionally (7% to 8.5%).

NEQOS have produced CCG and hospital Trust level activity profiles to understand the current position in terms of secondary care activity for back and radicular pain and have worked with a range of key stakeholders from both provider and commissioner organisations to develop the profiles to ensure that the indicators shown are appropriate and relevant to the project. This information needs to be viewed in conjunction with data soon to become available from Arthritis Research UK about the prevalence of back pain and associated risk factors and where possible with locally available data from general practice, including prescribing rates, and onward referrals from primary care (e.g. physiotherapy and radiology).

Technical specification

Following a data discovery exercise supported by Professor Charles Greenough (National Clinical Director for Spinal Disorders, South Tees NHS Foundation Trust), definitions for low back and radicular pain were developed based on a combination of diagnosis codes (ICD-10) and relevant secondary care procedures were identified using OPCS 4.7 codes. These codes have been supported by Mr Ashley Cole, Chair of Specialised Spinal Surgery Clinical Reference Group (Consultant Orthopaedic Surgeon, Northern General Hospital and Sheffield Children's Hospital).

Data definitions

Data Source: Hospital Episode Statistics (Health & Social Care Information Centre via HDIS). Please note that 2014/15 data is currently classed as provisional.

CCG populations: Health & Social Care Information Centre (Ages 15 & over as at April 2015) (Data was provided in 5 year ages bands, therefore we were unable to use exact figures for Ages 16 & over)

A summary of the data definitions used is shown below:

Time period: April 2011 - March 2015
Primary diagnosis = back pain (specific ICD10 codes)
Limited to episode 1
Age 16 years and over
Private patients are included unless specified
Admission costs are based on the national tariff
Directly Age & Sex Standardised Rates use the European Standard Populations

The NHS Trusts included for the Cheshire & Merseyside Region are:

- Southport & Ormskirk Hospital NHS Trust
- The Walton Centre NHS Foundation Trust
- Aintree University Hospital NHS Foundation Trust
- Royal Liverpool & Broadgreen University Hospitals
- NHS Trust Wirral University Teaching Hospital NHS Foundation Trust
- St Helens & Knowsley Hospitals NHS Trust
- Warrington & Halton Hospitals NHS Foundation Trust
- Salford Royal NHS Foundation Trust
- Countess Of Chester Hospital NHS Foundation Trust
- Mid Cheshire Hospitals NHS Foundation Trust

The Independent Sector Providers included for the Cheshire & Merseyside Region are:

- Spire Liverpool Hospital

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Clinical Commissioning Group (CCG) activity summary

1. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015), summary

a. Hospital admissions at national level, indicating back pain type and admission method

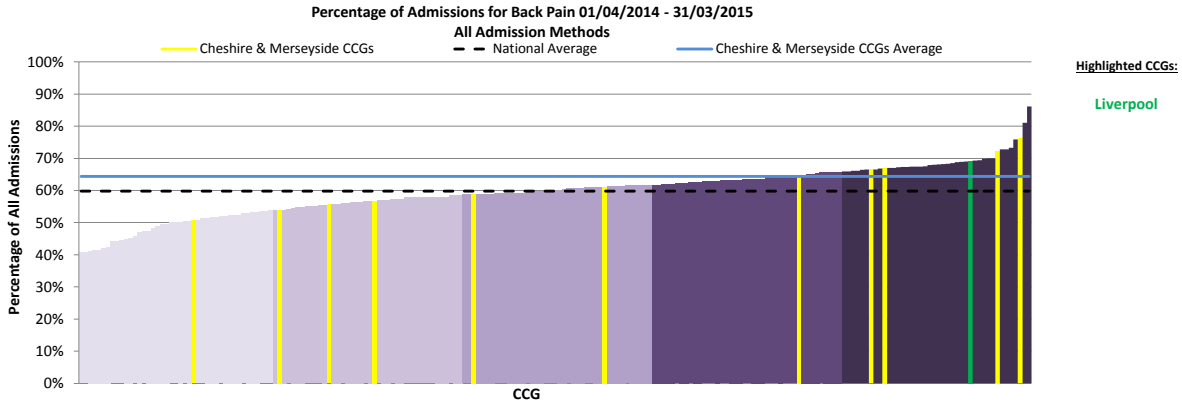
England	Back	Radicular	Total	% Back	% Radicular
Elective	134,448	102,808	**237,256**	56.7%	43.3%
Emergency	39,331	14,309	**53,640**	73.3%	26.7%
Other	771	951	**1,722**	44.8%	55.2%
Total	**174,550**	**118,068**	**292,618**	**59.7%**	**40.3%**

Merseyside CCGs	Back	Radicular	Total	% Back	% Radicular
Elective	7,270	4,904	**12,174**	59.7%	40.3%
Emergency	3,180	892	**4,072**	78.1%	21.9%
Other	22	10	**32**	68.8%	31.3%
Total	**10,472**	**5,806**	**16,278**	**64.3%**	**35.7%**

b. Hospital admissions at CCG level, indicating proportion of admissions for back pain

Table indicates the proportion of admissions for back pain only (and not radicular pain)

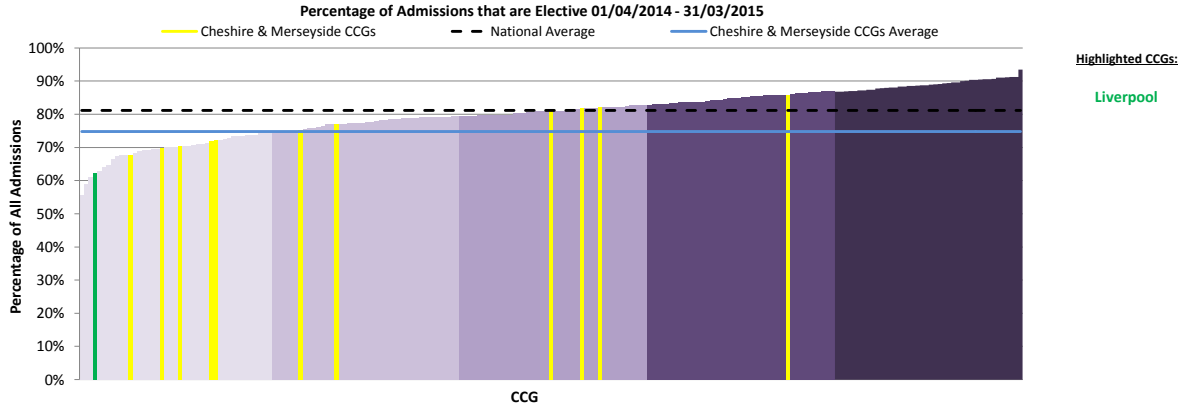
Eastern Cheshire	**50.7%**	Southport & Formby	**64.8%**
Halton	**53.9%**	South Sefton	**66.5%**
Warrington	**55.6%**	Knowsley	**67.0%**
Vale Royal	**56.7%**	Liverpool	**69.1%**
St Helens	**58.8%**	Wirral	**72.2%**
South Cheshire	**61.2%**	West Cheshire	**76.2%**
Cheshire & Merseyside CCGs	**64.3%**	**England**	**59.8%**



c. Hospital admissions at CCG level, by admission method

Table indicates the proportion of admissions for back and radicular pain that is recorded as elective

Liverpool	**62.3%**	Eastern Cheshire	**75.3%**
Knowsley	**67.8%**	South Sefton	**76.9%**
South Cheshire	**69.7%**	Southport & Formby	**80.9%**
Vale Royal	**70.4%**	West Cheshire	**81.7%**
St Helens	**71.7%**	Halton	**81.9%**
Wirral	**72.0%**	Warrington	**85.8%**
Cheshire & Merseyside CCGs	**74.8%**	**England**	**81.1%**



What is the data telling us?

In the latest 12 month period there were almost 300,000 admissions for back and radicular pain in England, with 16,278 (5.6%) of these from patients registered within Cheshire & Merseyside CCGs.

At a national level the proportional split for hospital admissions is 60% for back pain and 40% for radicular pain, and at CCG level in Cheshire & Merseyside the proportion of admissions for back pain ranges from 50% to 76%.

Approximately 81% of back and radicular pain admissions are elective, with Cheshire & Merseyside much lower than the national rate at 75%. At CCG level in Cheshire & Merseyside the proportion of elective admissions across CCGs ranges from 62% in Liverpool to 86% in Warrington.

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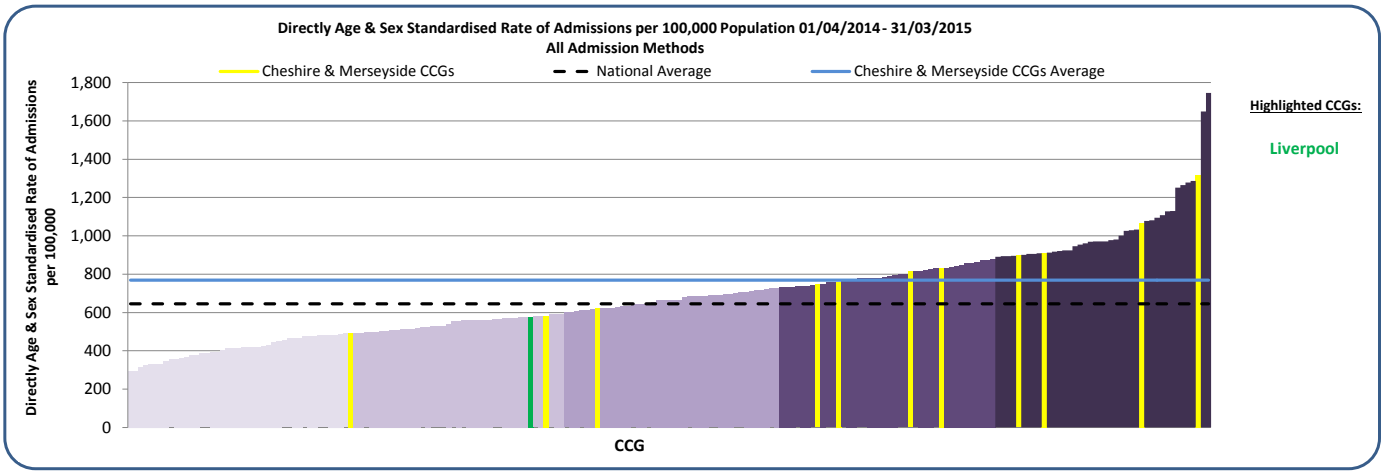
Clinical Commissioning Group (CCG) activity

2. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

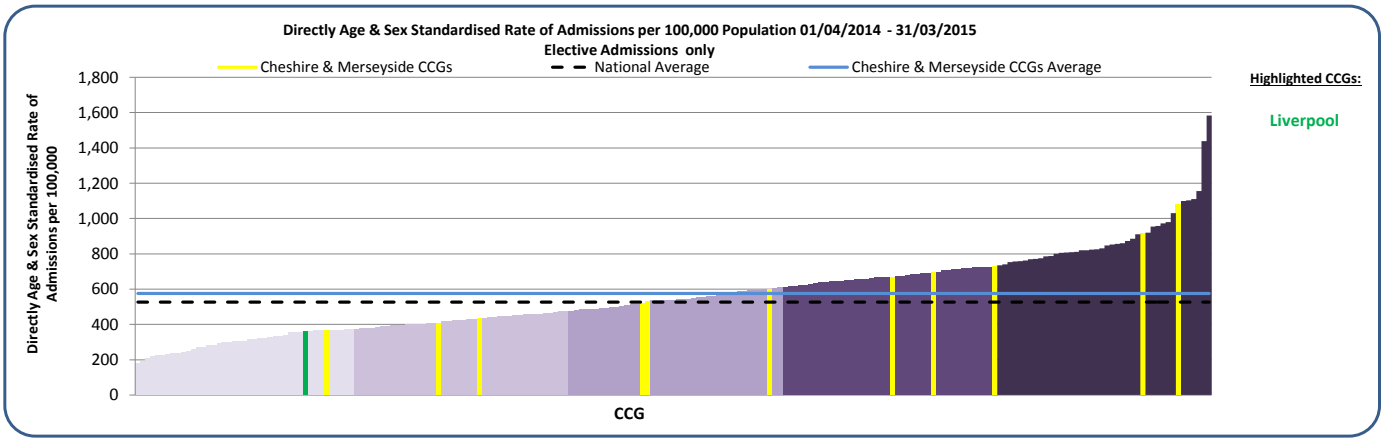
a. Hospital admissions for back pain by CCG (all admission methods), Directly Age & Sex Standardised Admission rate per 100,000 population

CCG name	All	Elective	Emergency	CCG name	All	Elective	Emergency
Halton	1316.2	1076.9	239.3	Knowsley	759.7	518.3	239.1
Warrington	1068.3	916.6	151.7	St Helens	745.7	530.8	214.8
Southport & Formby	910.2	727.3	182.9	Vale Royal	622.0	434.3	184.5
South Sefton	898.0	692.6	204.0	South Cheshire	582.8	405.7	175.2
Wirral	829.8	600.0	229.4	Liverpool	577.0	360.8	215.3
West Cheshire	814.4	668.4	144.4	Eastern Cheshire	490.8	366.0	116.3
Cheshire & Merseyside CCGs	769.1	576.4	191.2	England	645.6	526.5	115.4

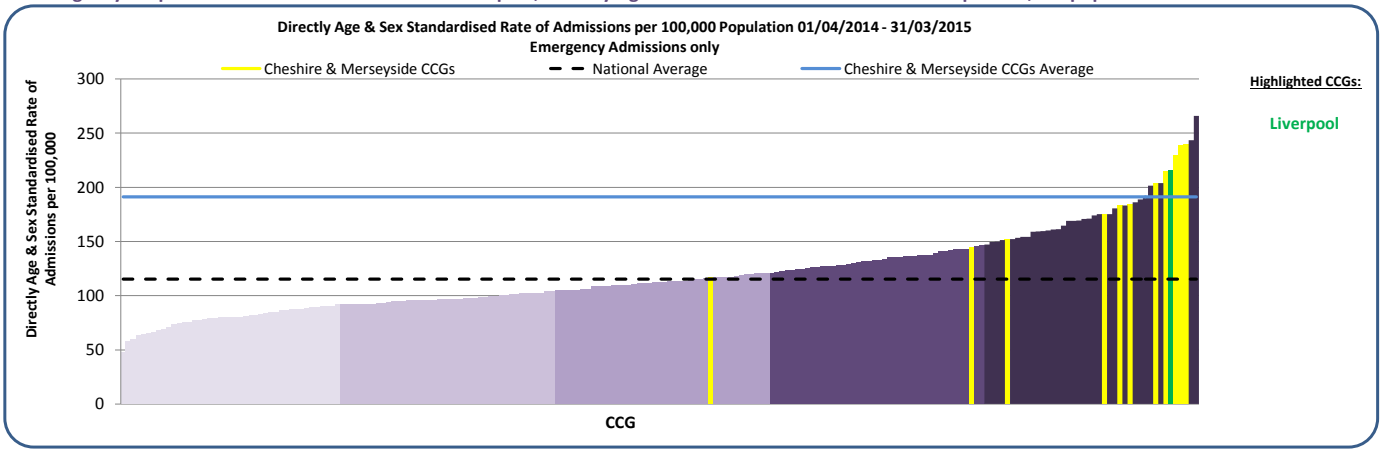
b. Hospital admissions for back and radicular pain (all admission methods), Directly Age & Sex Standardised Admission rate per 100,000 population



c. Elective hospital admissions for back and radicular pain, Directly Age & Sex Standardised Admission rate per 100,000 population



d. Emergency hospital admissions for back and radicular pain, Directly Age & Sex Standardised Admission rate per 100,000 population



What is the data telling us?

There is considerable variation in elective admission rates across the CCGs within Cheshire and Merseyside with almost a 3-fold difference between the regional lowest (Liverpool CCG) and the highest (Halton CCG).

In contrast, all CCGs in the region, except Eastern Cheshire CCG, have very high rates of emergency admissions with 10 of the 12 CCGs in the highest quintile.

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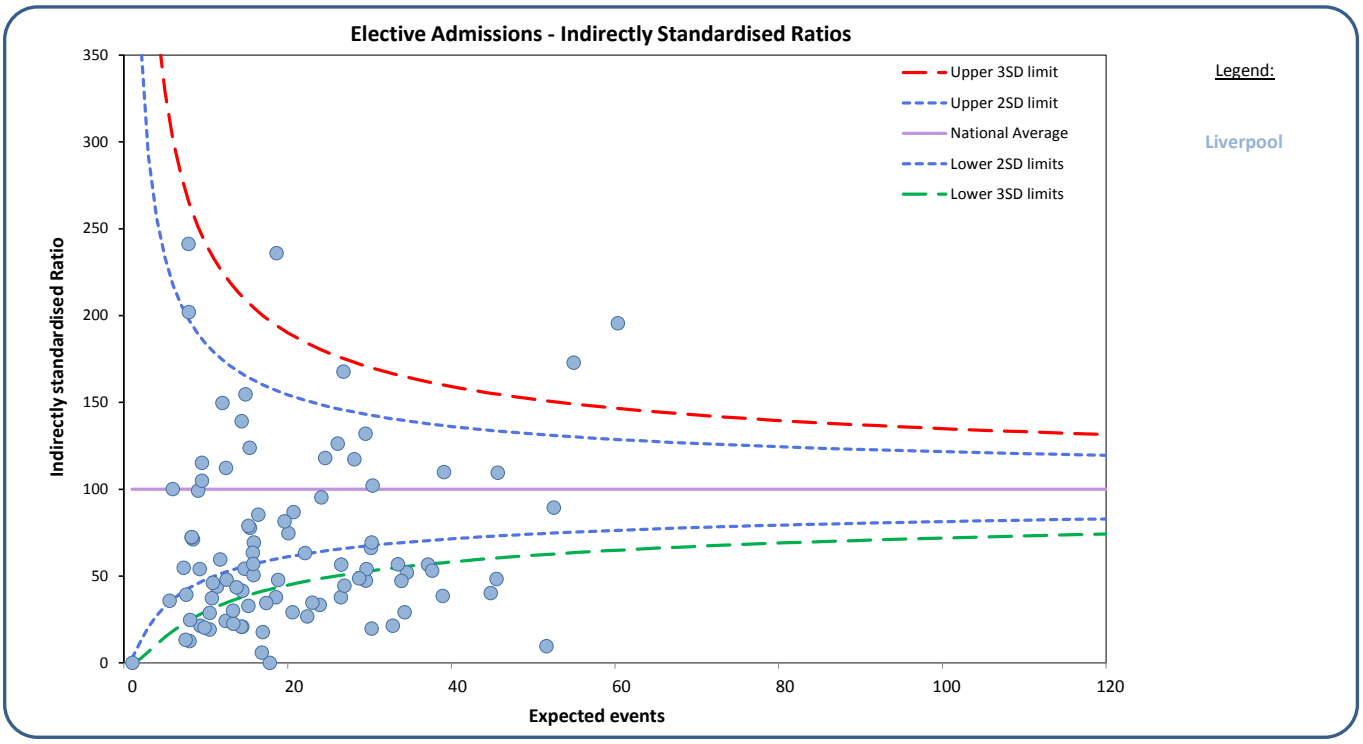
Clinical Commissioning Group (CCG) activity - GP practice level

3. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

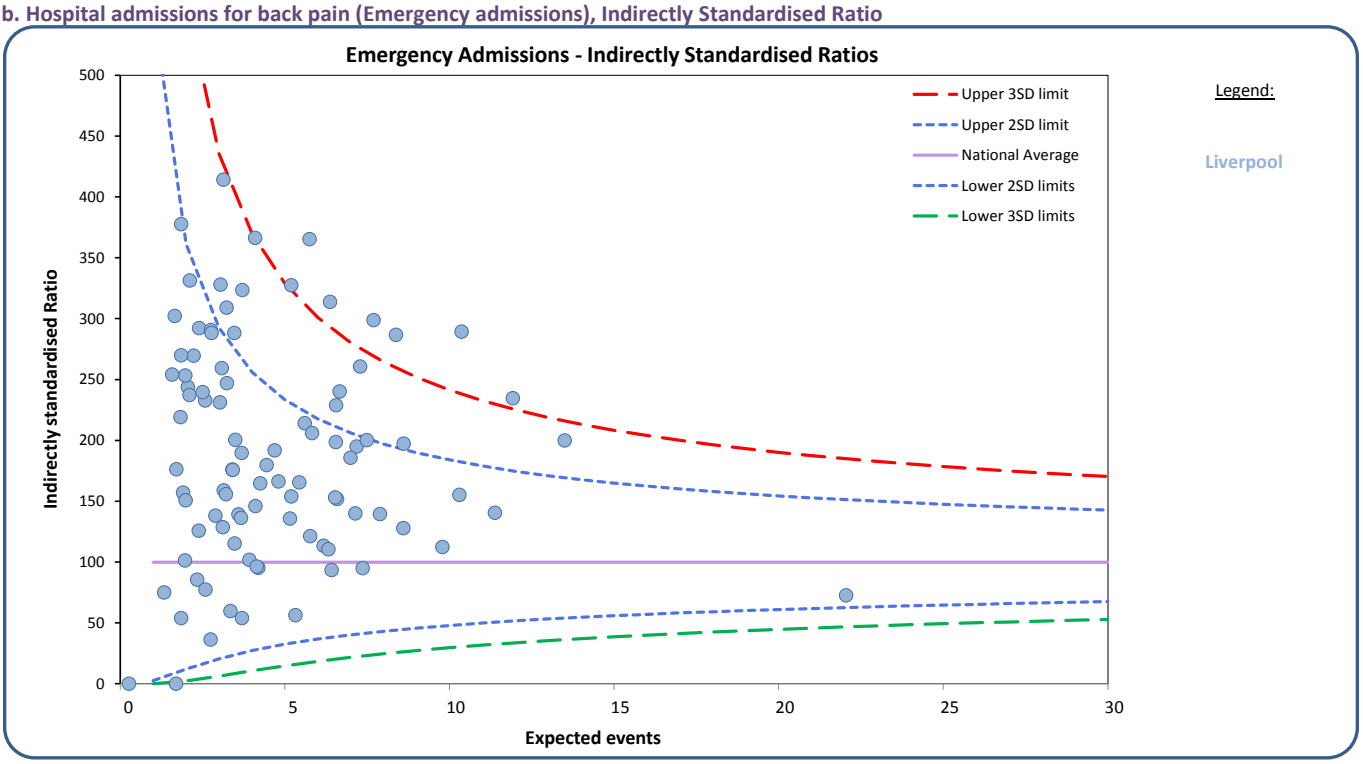
Each symbol represents one GP practice

a. Hospital admissions for back pain (Elective admissions), Indirectly Standardised Ratio

Liverpool



b. Hospital admissions for back pain (Emergency admissions), Indirectly Standardised Ratio



What is the data telling us?

The admission rates for elective and emergency admissions for each GP practice within the CCG are expressed as Indirectly Standardised Ratios with 100 representing the national average. This adjustment has been made due to small numbers and in order that comparisons can be made between practices.

The upper and lower confidence limits on the funnel charts above are based on national data. Each circle represents the constituent GP Practices for the selected CCG(s). All GP practices within the funnel have admission rates that are not significantly different that the national rates with those above the upper blue funnel having significantly higher rates than the national average.

4. Indirectly Standardised Ratios for Elective & Emergency Admissions for Back & Radicular Pain, by GP Practice

Liverpool

Indirectly Standardised Ratios that are coloured Red are higher than 3 standard deviations from the mean. Those coloured Yellow are between 2 and 3 higher standard deviations from the mean.

				Elective			Emergency		
Practice Code	Practice Name	CCG	Population 15+	Observed	Expected	Ratio	Observed	Expected	Ratio
N82001	The Margaret Thompson Med Centre	99A	4,729	8	23.92	33.45	7	5.15	135.82
N82002	Yew Tree Centre	99A	3,311	11	15.87	69.32	10	3.47	288.40
N82003	Dovecot Health Centre	99A	2,835	6	14.48	41.43	13	3.14	414.22
N82004	Garston Urban - Ssp Health Limited	99A	2,293	<6	10.46	28.69	<6	2.38	125.88
N82009	Grassendale Medical Centre	99A	6,873	21	37.14	56.54	11	7.89	139.48
N82011	Priory Medical Centre	99A	9,673	22	45.54	48.31	16	10.30	155.30
N82014	Lance Lane Medical Centre	99A	5,872	20	30.18	66.26	10	6.59	151.74
N82018	Ellergreen Medical Centre	99A	9,661	50	45.70	109.41	30	10.37	289.31
N82019	Langbank Medical Centre	99A	3,759	44	18.66	235.85	15	4.09	366.38
N82022	Edge Hill Health Centre	99A	7,287	10	34.28	29.17	23	7.70	298.88
N82024	Eaton Road Medical Centre	99A	10,230	47	52.52	89.49	16	11.38	140.62
N82026	Penny Lane Surgery	99A	5,294	10	26.51	37.72	7	5.77	121.27
N82033	Dingle Park Practice	99A	3,803		17.84		<6	3.93	101.91
N82034	The Village Surgery	99A	5,184	33	26.13	126.28	21	5.75	365.18
N82035	Mather Avenue Surgery	99A	7,582	43	39.11	109.95	11	8.60	127.87
N82036	Netherley - Ssp Health Limited	99A	3,343	<6	16.85	5.94	<6	3.59	139.32
N82037	Westmoreland Gp Centre	99A	10,740	95	54.93	172.94	28	11.93	234.78
N82039	Storrsdale Medical Centre	99A	2,396	14	12.48	112.22	<6	2.74	36.48
N82041	Oakvale Medical Centre	99A	5,521	14	29.56	47.36	13	6.55	198.60
N82046	Dr M Flynn's Practice	99A	7,011	31	30.38	102.04	14	7.18	195.07
N82048	Walton Medical Centre	99A	5,688	16	29.63	54.01	20	6.37	313.77
N82049	Westminster Medical Centre	99A	4,408	14	22.15	63.22	9	4.69	191.80
N82050	Gateacre Medical Centre	99A	1,920	<6	10.47	19.11	6	2.23	269.51
N82051	Breeze Hill - Ssp Health Limited	99A	1,787	6	8.43	71.14	7	1.85	377.67
N82052	Townsend Medical Centre	99A	3,096	<6	15.21	32.86	6	3.41	175.95
N82053	Aintree Park	99A	11,949	118	60.35	195.53	27	13.51	199.92
N82054	Abercromby Family Practice	99A	5,011	6	22.42	26.76	8	5.19	154.03
N82058	Rock Court Surgery	99A	3,814	7	18.55	37.73	6	4.11	146.06
N82059	The Surgery	99A	4,030	9	18.86	47.73	<6	4.19	95.42
N82060	Stanley - Ssp Health Limited	99A	2,755	8	14.74	54.26	8	3.09	259.25
N82062	Fulwood Green Medical Ctr	99A	5,569	14	28.76	48.68	7	6.18	113.31
N82065	Earle Road Medical Centre	99A	3,422	23	14.87	154.67	6	3.41	175.79
N82066	Woolton House Medical Ctr	99A	8,019	18	44.83	40.15	11	9.78	112.44
N82067	Dr B Das' Practice	99A	2,912	<6	14.44	20.77	<6	3.15	158.97
N82070	The Elms Medical Centre	99A	6,911	18	34.56	52.09	15	7.49	200.32
N82073	The Ash Surgery	99A	5,515	33	28.14	117.26	6	6.42	93.39
N82074	Old Swan Health Centre	99A	8,038	15	38.94	38.52	17	8.61	197.42
N82076	Princes Park - Ssp Health Limited	99A	5,556	23	24.12	95.34	12	5.61	214.08
N82077	D.K. Shah	99A	2,357	18	12.03	149.62	6	2.58	232.72
N82078	J.W. Roberts	99A	3,025	19	15.35	123.82	<6	3.21	155.75
N82079	Greenbank Road Surgery	99A	5,456	18	20.72	86.88	<6	5.32	56.42
N82081	Islington House Medical Centre	99A	2,049	<6	9.34	21.41	<6	2.05	243.73
N82082	Dr Prasad's Practice	99A	4,103	6	17.40	34.49	<6	4.15	96.47
N82083	Jubilee Medical Centre	99A	6,313	39	29.53	132.05	15	6.55	228.85
N82084	Gateacre Brow Surgery	99A	6,178	19	33.46	56.78	10	7.14	139.98
N82086	Abingdon Family Health Care Centre	99A	1,769	9	9.08	99.10	<6	1.97	253.42
N82087	Gilmoss	99A	2,293	<6	11.38	43.94	7	2.40	292.10
N82089	Picton N'Hood Health & Children's Centre	99A	1,980	<6	8.00	12.51	<6	1.91	157.10
N82090	Green Lane Medical Centre	99A	7,673	20	37.65	53.12	24	8.37	286.66
N82091	Dr Mahadana, Riverside Centre For Health	99A	1,846	<6	8.10	24.70	<6	1.85	269.78
N82092	The Valley Medical Centre	99A	6,854	16	33.92	47.17	7	7.36	95.12
N82093	Dr Pl Gupta's Practice	99A	2,903	<6	14.36	20.89	<6	3.11	128.61
N82094	Belle Vale Health Centre	99A	6,317	7	32.84	21.32	13	6.99	185.86
N82095	Albion Surgery	99A	2,591	<6	12.44	24.11	8	2.75	290.76
N82097	The Grey Road Surgery	99A	4,292	15	20.10	74.63	8	4.45	179.79
N82099	Mere Lane Group Practice	99A	5,224	8	23.02	34.75	17	5.19	327.35
N82100	The Fiveways - Ssp Health Limited	99A	2,870	8	15.83	50.55	<6	3.47	115.18
N82101	Kirkdale	99A	2,746	20	14.38	139.12	7	3.03	231.14
N82103	Anfield Group Practice	99A	3,615	14	16.40	85.35	<6	3.70	54.10
N82104	Dr Ea Bainbridge's Practice	99A	3,705	16	19.63	81.51	7	4.25	164.59
N82106	The Village Medical Ctre	99A	3,034	<6	16.98	17.67	<6	3.67	136.41
N82107	Dr Sn Singh's Practice	99A	1,401	19	7.87	241.28		1.69	
N82108	Rutherford Medical Centre	99A	5,827	15	26.54	56.52	7	6.33	110.65
N82109	Speke Hc - Dr Thakur	99A	2,579	6	12.54	47.85	8	2.77	288.30
N82110	Long Lane	99A	6,354	21	30.27	69.38	16	6.66	240.18
N82113	Fairfield Medical Centre	99A	3,261	<6	13.37	22.44	8	3.24	247.05
N82115	Vauxhall Health Centre	99A	5,609	12	26.95	44.53	12	5.83	205.95
N82116	Hunts Cross Health Ctr	99A	5,003	29	24.60	117.88	9	5.44	165.52
N82117	Brownlow Group Practice	99A	31,442	<6	51.62	9.69	16	22.04	72.58
N82617	Marybone - Ssp Health Limited	99A	4,404	<6	9.85	20.30	<6	3.35	59.69
N82621	Speke Hc - Dr Mangarai	99A	1,929	6	8.30	72.29	<6	1.97	101.45
N82623	Robson Street - Ssp Health Limited	99A	1,576	<6	7.53	13.28	<6	1.66	302.10
N82633	Knotty Ash Medical Centre	99A	1,828	10	9.54	104.86	<6	2.11	237.36
N82641	Sandringham Medical Centre	99A	6,137	45	26.83	167.70	10	6.53	153.20
N82645	Kensington Park - Ssp Health Limited	99A	3,749	10	15.76	63.45	7	3.69	189.66
N82646	Dr Hegde & Jude's Practice	99A	7,486	6	30.29	19.81	19	7.29	260.76
N82647	The Surgery	99A	1,800	6	8.28	72.44	<6	1.83	219.04
N82648	Poulter Rd	99A	1,218	6	5.99	100.17	<6	1.33	75.08
N82650	Speke Hc - Dr Choudhary	99A	1,948	16	7.92	202.03	<6	1.85	54.00
N82651	Dr Mahadanaarachchi's Practice	99A	1,506	<6	7.31	54.70	<6	1.57	254.23
N82655	Moss Way	99A	2,079	<6	10.74	37.25	6	2.50	239.64
N82657	Dharmana's Family & General Practice	99A	2,000	11	9.55	115.22	7	2.11	331.43
N82659	Baycliffe Family Health Centre	99A	272		1.06			0.26	
N82662	Dunstan Village Group Practice	99A	4,627	6	20.61	29.11	8	4.81	166.39
N82663	Dr K Pramanik's Practice	99A	2,658	<6	13.34	29.98	<6	2.89	138.21
N82664	Rocky Lane Medical Centre	99A	3,195	9	15.80	56.98	7	3.49	200.52
N82665	Everton Road - Ssp Health Limited	99A	3,883	12	15.41	77.85	12	3.71	323.39
N82668	Walton Village Medical Centre	99A	1,565	<6	7.63	39.31	<6	1.70	176.17
N82669	Great Homer Street Medical Centre	99A	2,193	<6	10.85	46.07	<6	2.34	85.65
N82670	Park View - Ssp Health Limited	99A	2,915	6	13.77	43.58	10	3.05	327.90
N82671	Dr Sn Ramamoorthy's Practice	99A	2,538	7	11.75	59.59	<6	2.58	77.38
N82676	Fir Tree	99A	3,219	12	15.22	78.83	10	3.24	309.06
N82678	Stopgate	99A	1,872	<6	9.24	54.09	<6	1.99	150.73
Y00110	West Speke - Ssp Health Limited	99A	1,327	<6	5.60	35.71	15	1.33	1,127.28

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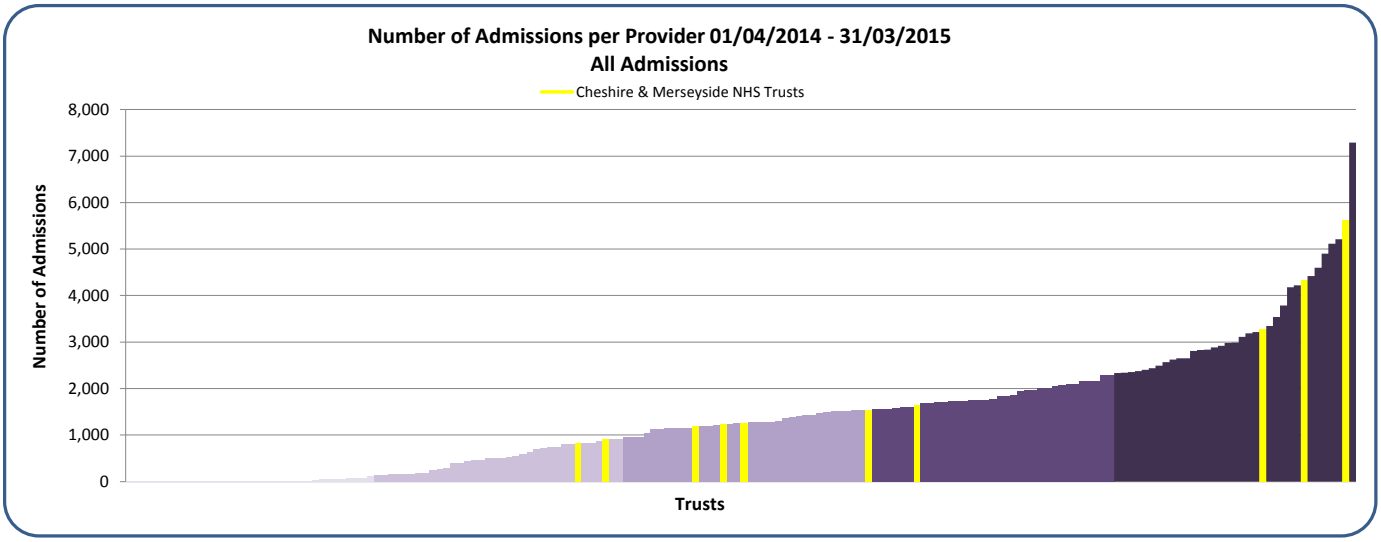
Hospital Trust activity

5. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

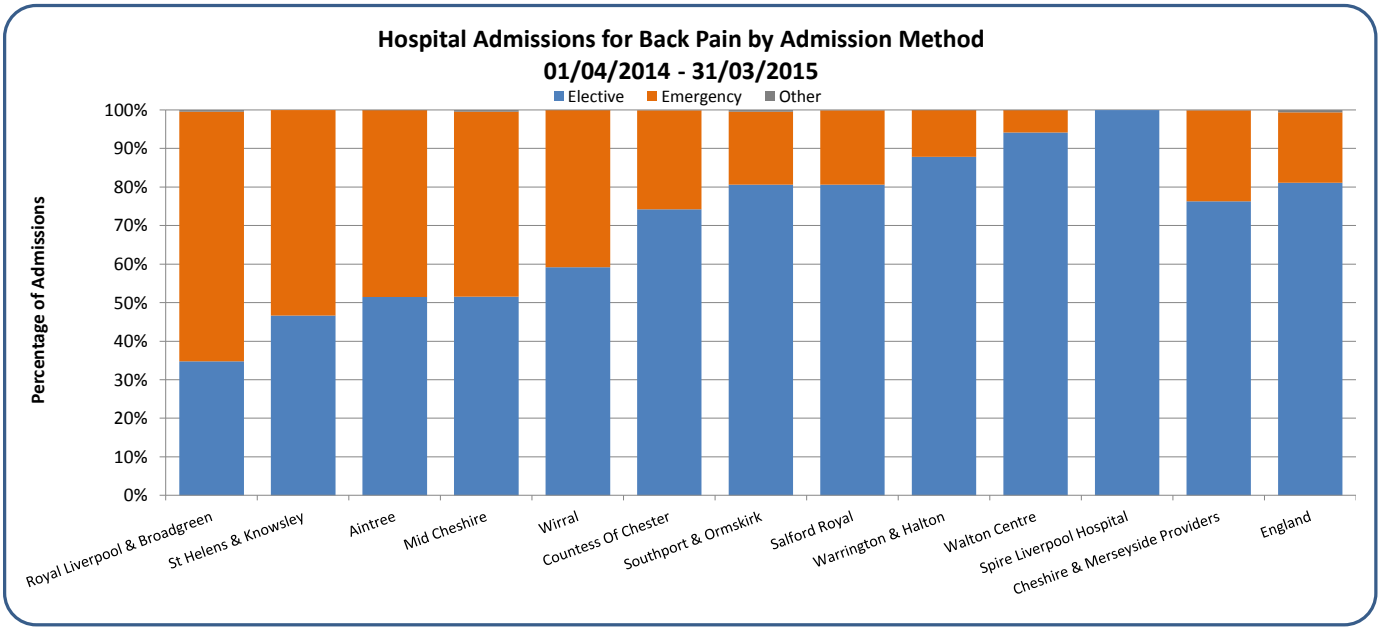
a. Number of hospital admissions for back pain (all admission methods, NHS Trusts only)

Salford Royal	5,615	Aintree	1,261
Walton Centre	4,332	Countess Of Chester	1,230
Warrington & Halton	3,283	St Helens & Knowsley	1,185
Southport & Ormskirk	1,639	Royal Liverpool & Broadgreen	908
Wirral	1,545	Mid Cheshire	819
Cheshire & Merseyside NHS Trusts	21,817	England	251,444



b. Number of admissions per hospital Trust, by admission method

(Cheshire & Merseyside Providers only)



What is the data telling us?

The total number of admissions for back pain is presented due to the absence of a relevant denominator at hospital Trust level. Activity for the 10 NHS Trusts is to some degree proportional to the size of the Trust and is spread across the quintile chart.

The proportion of hospital activity for back pain which is classed as elective care is lower than the England for the Cheshire & Merseyside providers overall, however at NHS Trust level the proportion varies between 35% at Royal Liverpool & Broadgreen to 94% at the Walton Centre. All NHS activity at Independent Sector Providers is classed as elective.

Hospital Trust activity

5. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

c. Elective admissions for back and radicular pain, by treatment specialty

(Cheshire & Merseyside Providers only)

Provider Name	Pain Management & Anaesthetics	Trauma & Orthopaedics	Spinal Surgery Service	Interventional Radiology	Neurosurgery	Other Functions	Total
Southport & Ormskirk	1,317	-	-	-	-	<6	**1,317**
Walton Centre	2,710	-	-	-	1,341	26	**4,077**
Aintree	-	639	-	<6	-	7	**646**
Royal Liverpool & Broadgreen	200	107	-	-	-	9	**316**
Wirral	909	<6	-	-	-	<6	**909**
St Helens & Knowsley	544	<6	-	-	-	7	**551**
Warrington & Halton	608	2,271	-	-	-	<6	**2,879**
Salford Royal	1,286	901	-	<6	2,314	25	**4,526**
Countess Of Chester	884	<6	-	-	-	27	**911**
Mid Cheshire	420	-	-	-	-	<6	**420**
Spire Liverpool Hospital	283	<6	-	-	-	-	**283**
Total	**9,161**	**3,918**	**-**	**-**	**3,655**	**101**	**16,835**

d. Elective admissions for injections for back and radicular pain, by injection type and treatment specialty *(national data)*

Treatment Function Title	Other Back Pain Injection	Epidural (not specified)	Epidural Lumbar	Epidural Sacral	Injection Facet Joint	Spinal Nerve Root Injection	Total
Pain Management & Anaesthetics	11,485	1,572	19,926	12,780	46,506	12,482	**104,751**
Trauma & Orthopaedics	1,286	175	4,190	15,658	10,080	11,518	**42,907**
Spinal Surgery Service	200	60	590	1,430	2,338	3,571	**8,189**
Neurosurgery	191	123	1,074	600	1,270	1,303	**4,561**
Interventional Radiology	14	1	18	3	656	2,961	**3,653**
Rheumatology	38	12	138	2,428	390	32	**3,038**
Other Treatment Functions	24	10	81	278	223	591	**1,207**
Total	**13,238**	**1,953**	**26,017**	**33,177**	**61,463**	**32,458**	**168,306**

What is the data telling us?

For elective activity the treatment specialty code indicated within the hospital data varies by hospital trust. Overall the most common specialties are Trauma and Orthopaedics and Pain Management/Anaesthetics. The Walton Centre records high Neurosurgery activity with no Trauma and Orthopaedic activity and the Salford Royal reports high levels of Neurosurgery activity as well as Trauma and Orthopaedic activity.

The second table shows the different types of injections being undertaken within each of the treatment function codes and demonstrates that nationally over 62% (104,751) of injections take place within Pain Management/Anaesthetics and 25% of injections are undertaken within Trauma and Orthopaedics.

The most common injection type is facet joint injections, which mainly take place within Pain Management/Anaesthetics treatment function, but are also being used in Trauma and Orthopaedics, Spinal Surgery Service and Neurosurgery.

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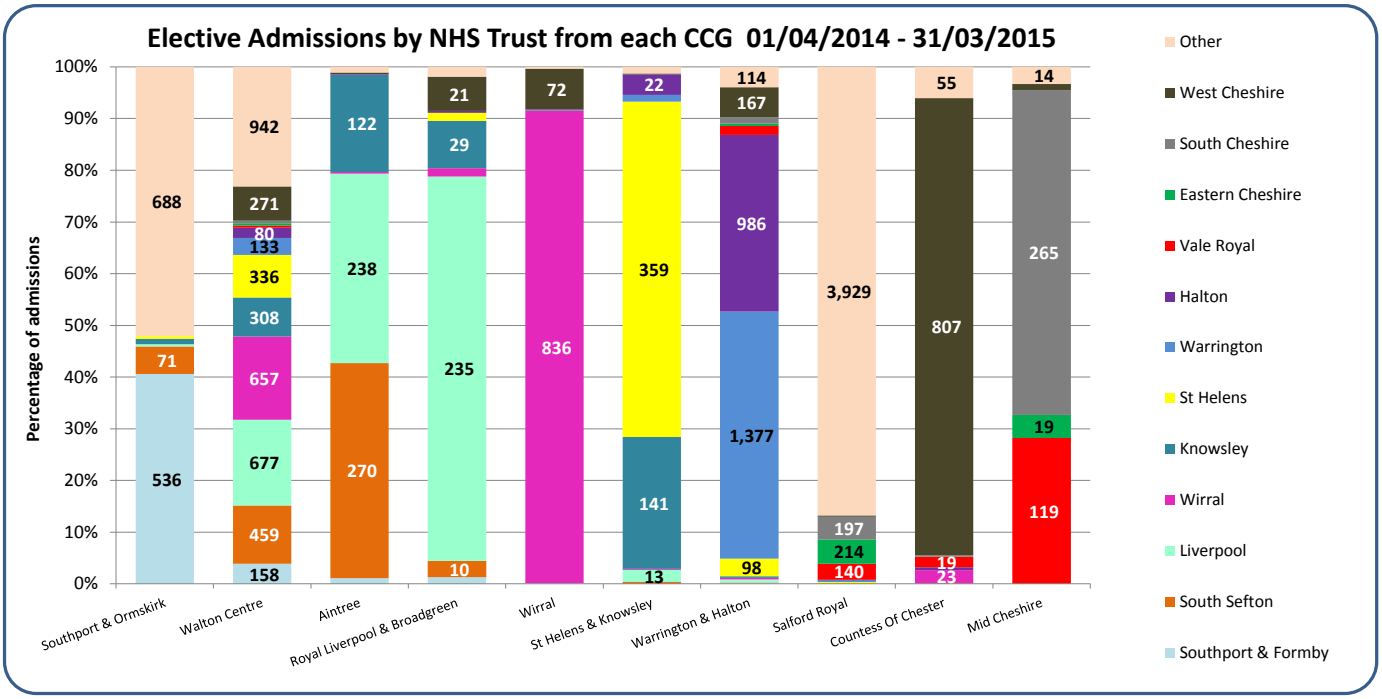
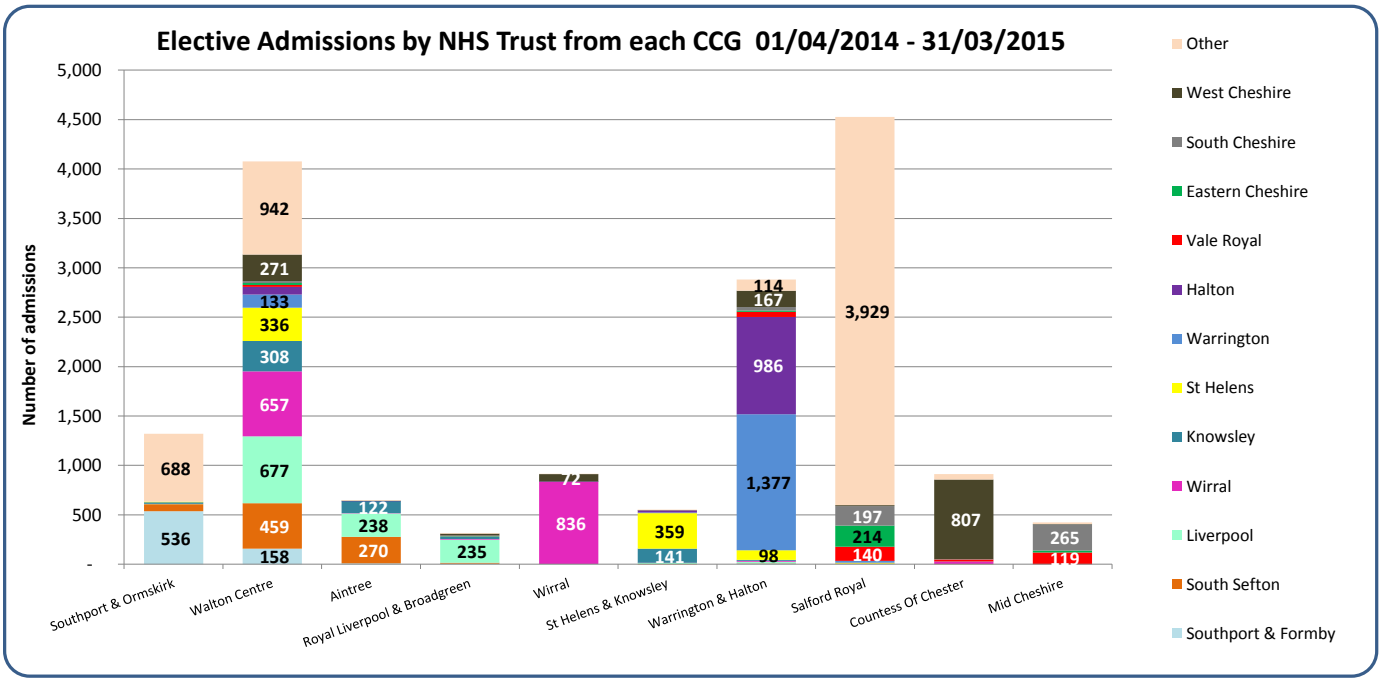
Hospital Trust activity from CCGs

6. Patient flows from CCG to Hospital Trust for back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

a. Hospital elective admissions by CCG population (percentage of activity)



b. Hospital elective admissions by CCG population (actual activity)



What is the data telling us?

There is variation between hospital trusts in terms of the number of patients from each of the CCGs that are admitted for back and radicular pain.

The Walton Centre has activity from at least ten of the Cheshire & Merseyside CCGs, whereas with Wirral and the Countess of Chester Trusts the majority of activity comes from one main CCG.

The data is shown in two ways, indicating both the proportion and amount of activity relating to each CCG.

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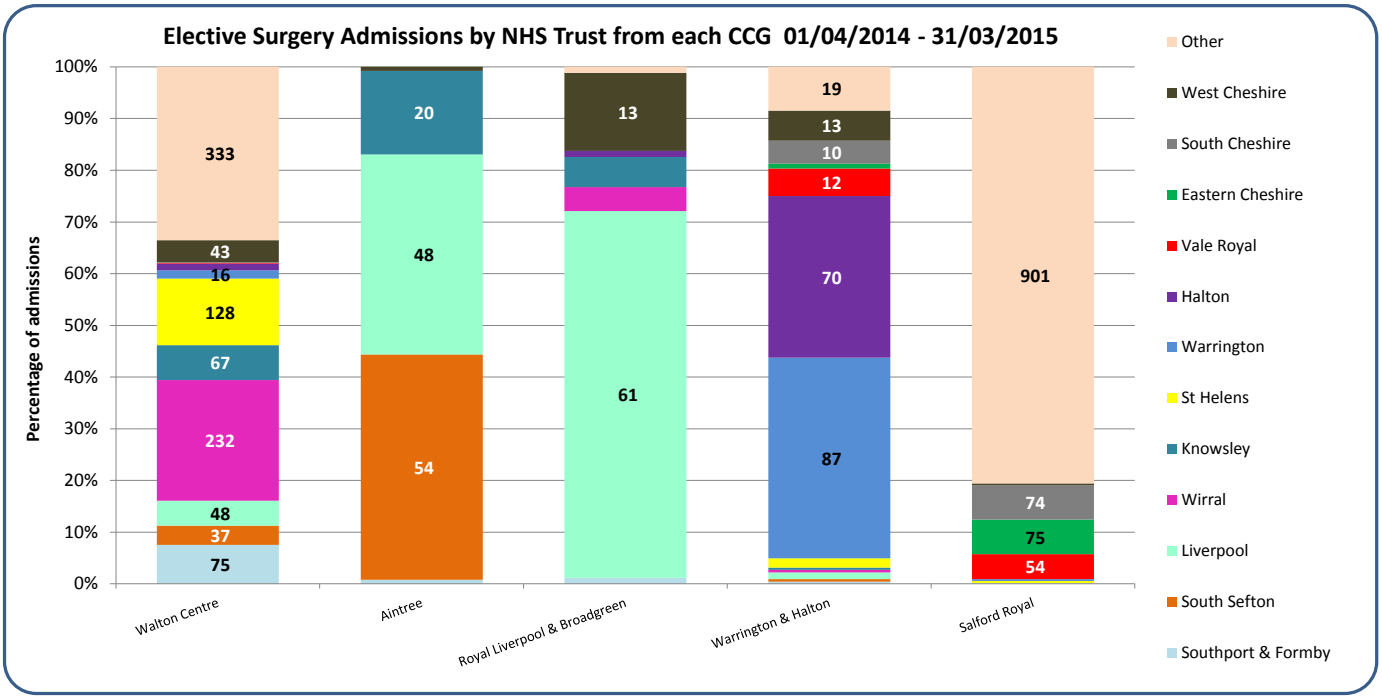
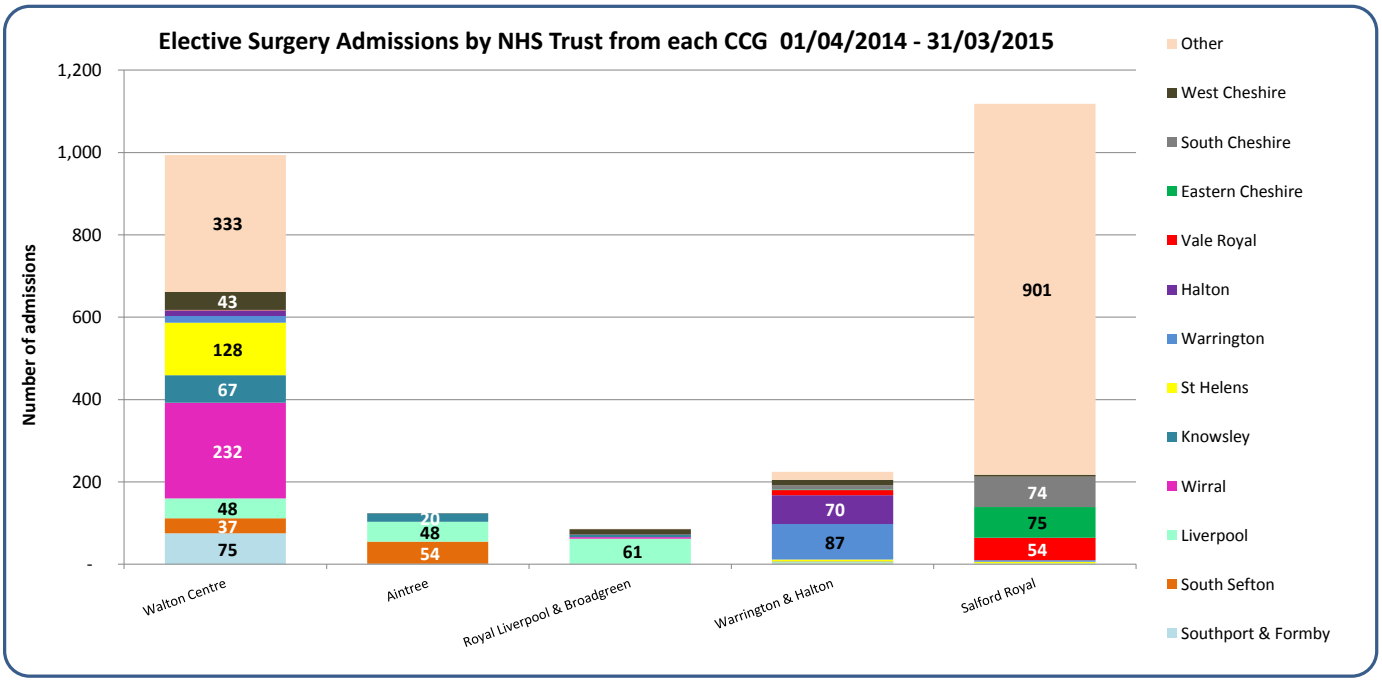
Hospital Trust activity from CCGs

6. Patient flows from CCG to Hospital Trust for back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

c. Hospital elective admissions for surgery by CCG population (percentage of activity)



d. Hospital elective admissions for surgery by CCG population (actual activity)



What is the data telling us?

There is variation between hospital trusts in terms of the number of patients from each of the CCGs that are admitted for sur gery for back and radicular pain. In the Cheshire & Merseyside, the Walton Centre does the highest volume of spinal surgery.

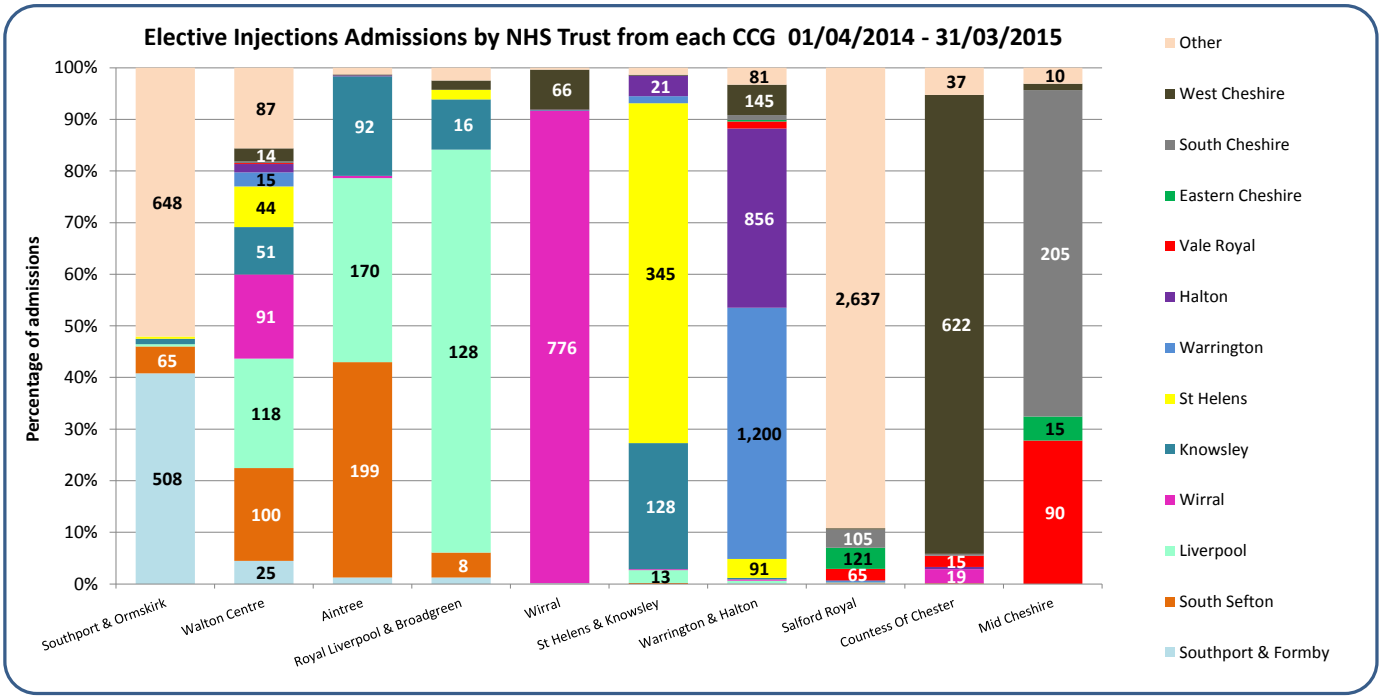
The Walton Centre is also more likely to take patients from several different CCGs across the region compared to Warrington & Halton Trust which predominantly admits patients from the CCGs where their sites are located.

The data is shown in two ways, indicating both the proportion and number of admissions relating to each CCG.

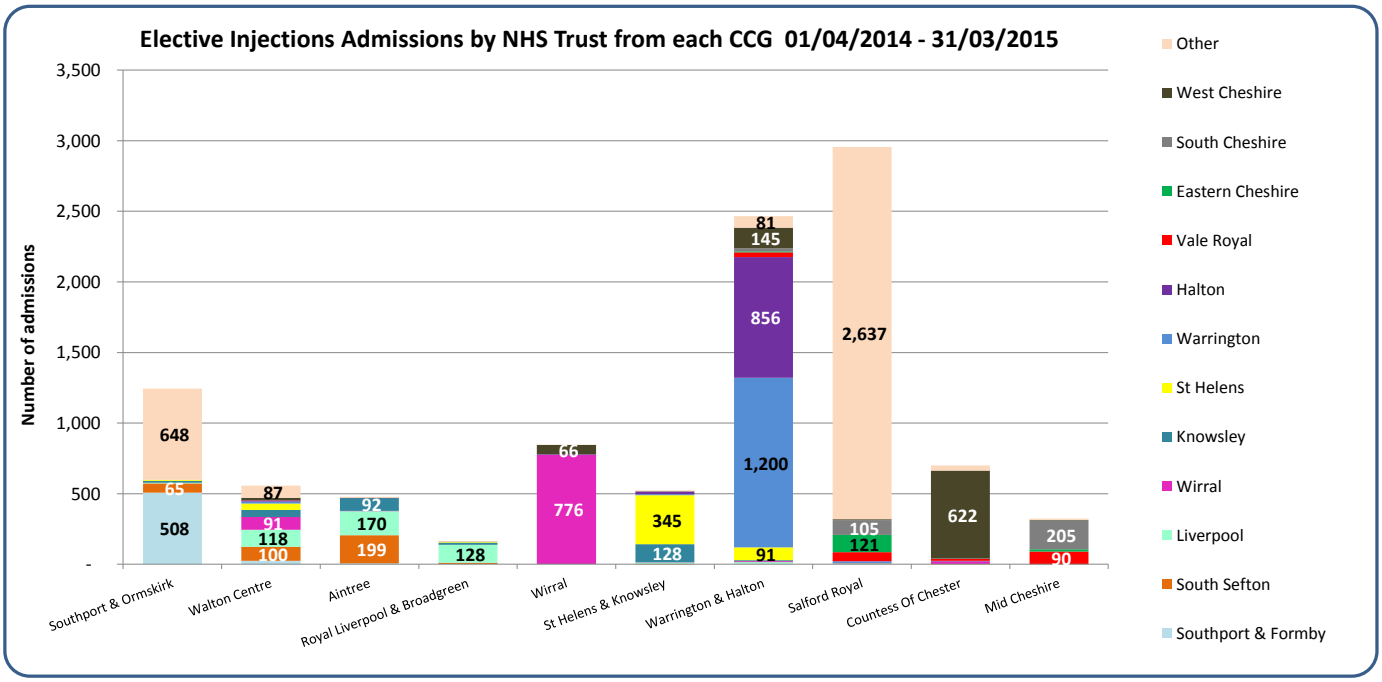
Hospital Trust activity from CCGs

6. Patient flows from CCG to Hospital Trust for back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

e. Hospital elective admissions for injections by CCG population (percentage of activity)



f. Hospital elective admissions for injections by CCG population (actual activity)



What is the data telling us?

There is variation between hospital trusts in terms of the number of patients from each of the CCGs that are admitted for injections for back and radicular pain. Salford Royal and Warrington & Halton Trusts have considerably higher volumes of activity for injections.

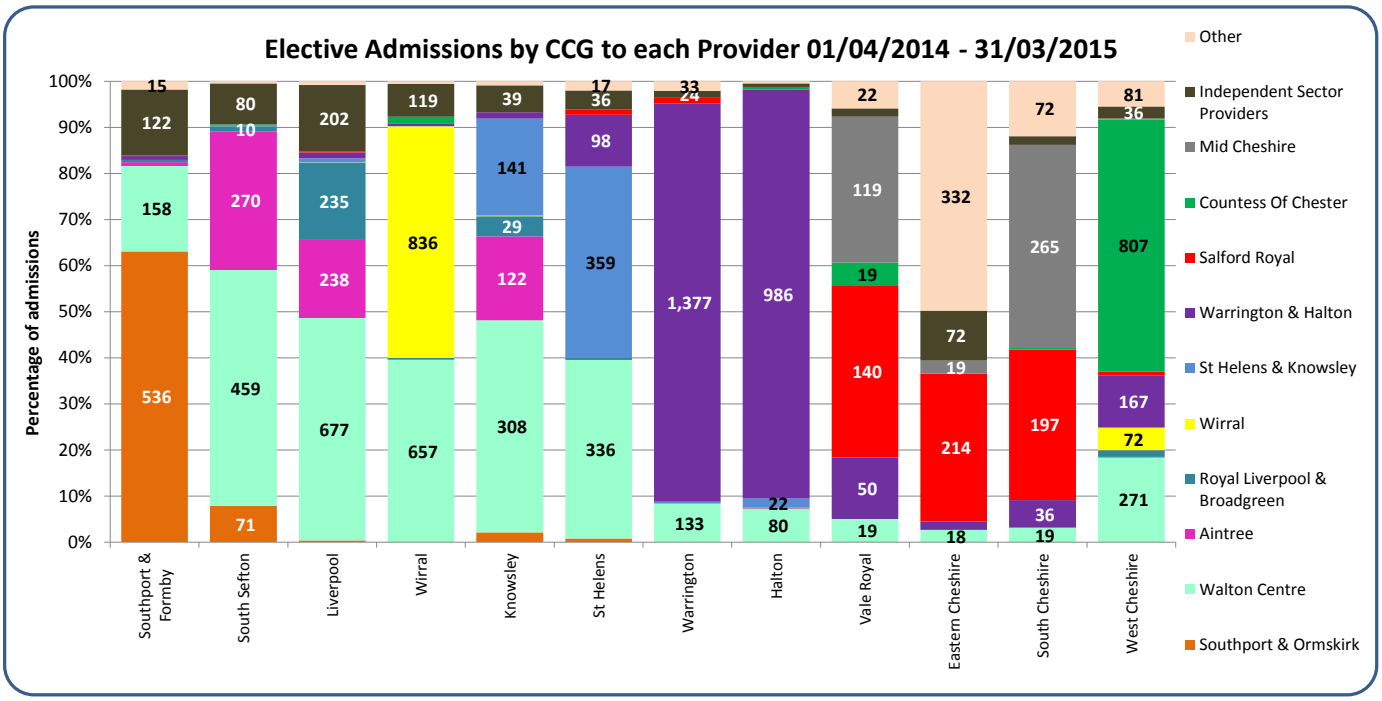
The Walton Centre take patients from several different CCGs across the region compared to the Wirral and Countess of Cheshire Trusts which predominantly admit patients from the CCGs where they are located.

The data is shown in two ways, indicating both the proportion and number of admissions relating to each CCG.

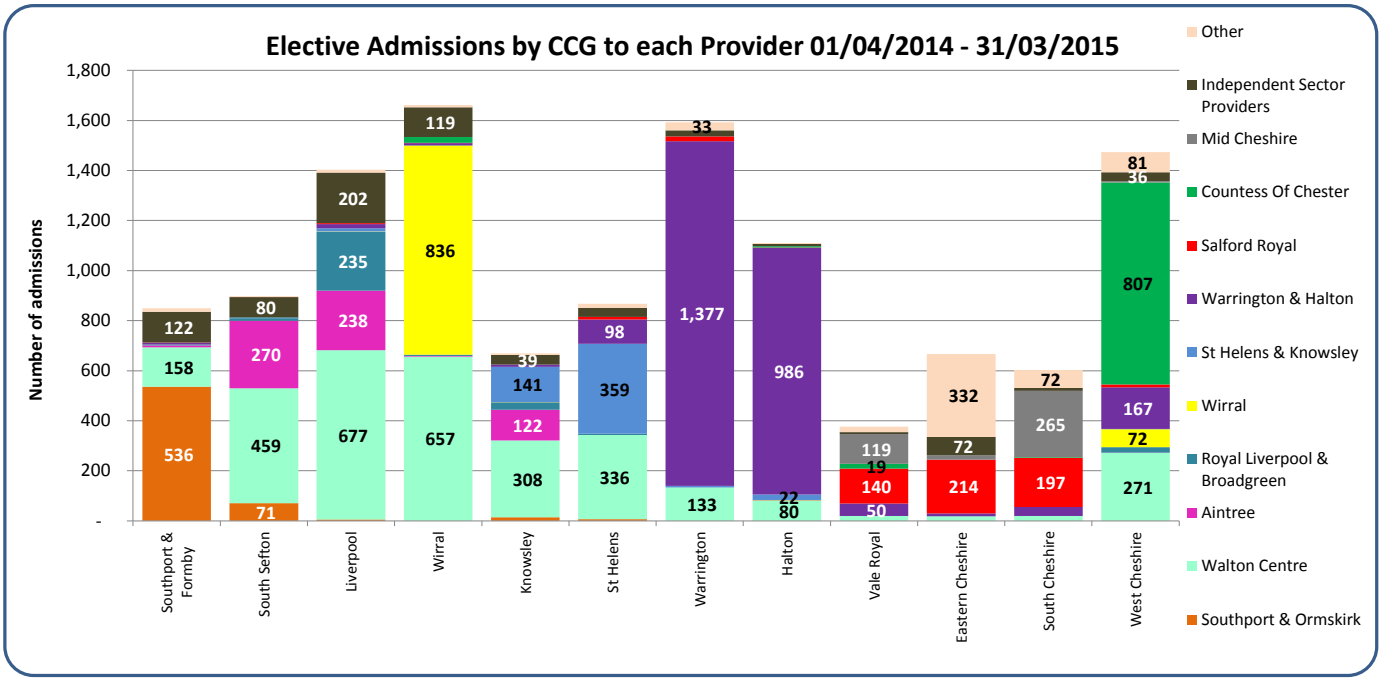
CCG activity to Hospital Trust

7. Patient flows to Hospital Trusts from CCGs for back pain in people aged 16 years and over (April 2014 - March 2015)

a. Hospital elective admissions by CCG population (percentage of activity)



b. Hospital elective admissions from each CCG (actual activity)



What is the data telling us?

There is variation between CCGs in terms of the number of the number of hospital trusts that their patients are admitted to.
West Cheshire CCG patients attend five of the NHS Trusts as well as using Independent Sector Providers in contrast Warrington and Halton CCGs that predominantly use Warrington & Halton Trust and the Walton Centre.

Activity is highest for the Wirral CCG and is spread across the Wirral Trust and the Walton Centre as well as Independent Sector Providers. Southport & Formby CCG and Liverpool CCG have the highest proportions of Independent Sector activity.

The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

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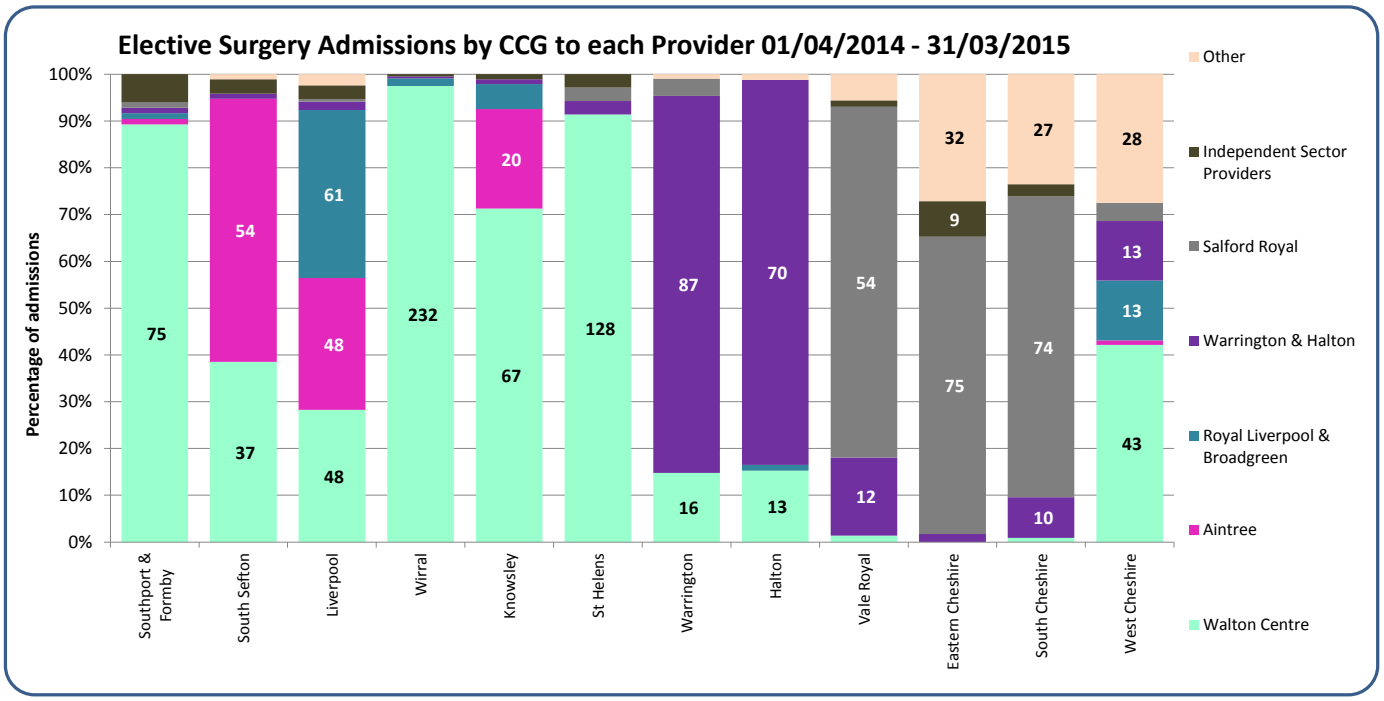
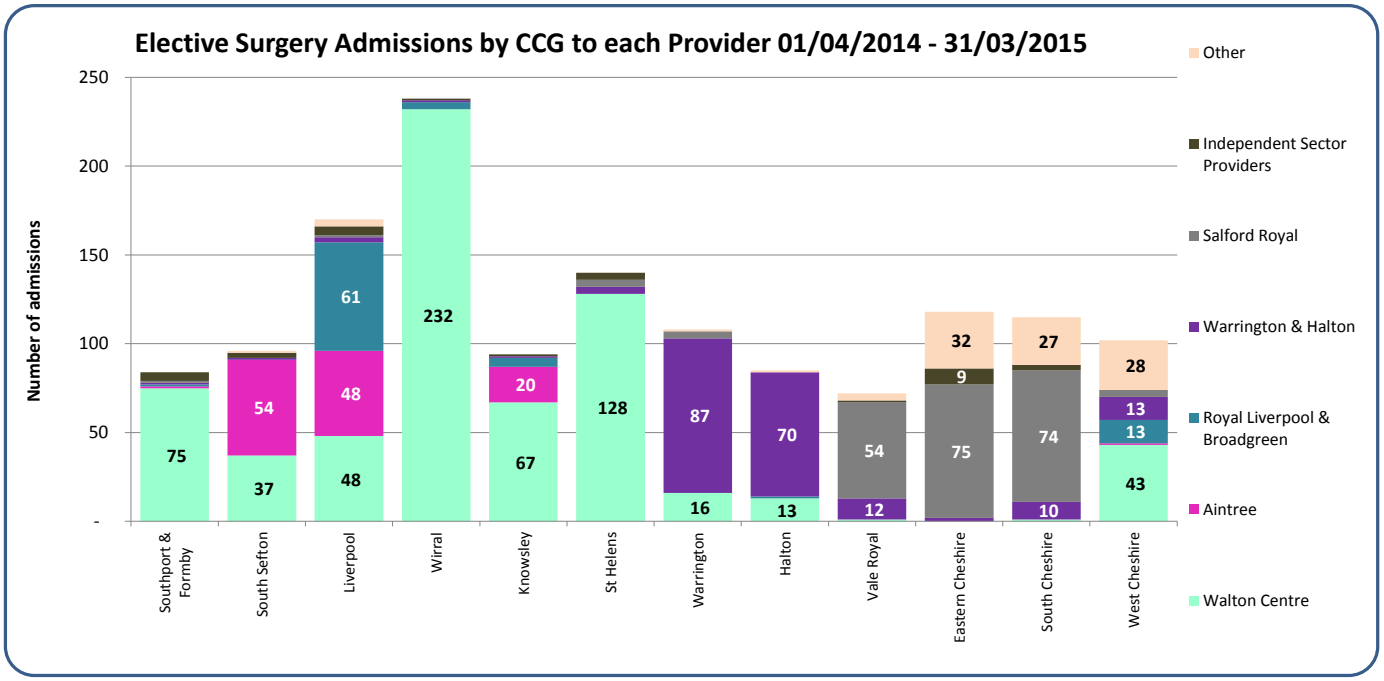
CCG activity to Hospital Trust

7. Patient flows to Hospital Trusts from CCGs for back pain in people aged 16 years and over (April 2014 - March 2015)

c. Hospital elective admissions for surgery by CCG population (percentage of activity)



d. Hospital elective admissions for surgery from each CCG (actual activity)



What is the data telling us?

There is variation between CCGs in terms of the number of the number of hospital trusts that their patients are admitted for spinal surgery.

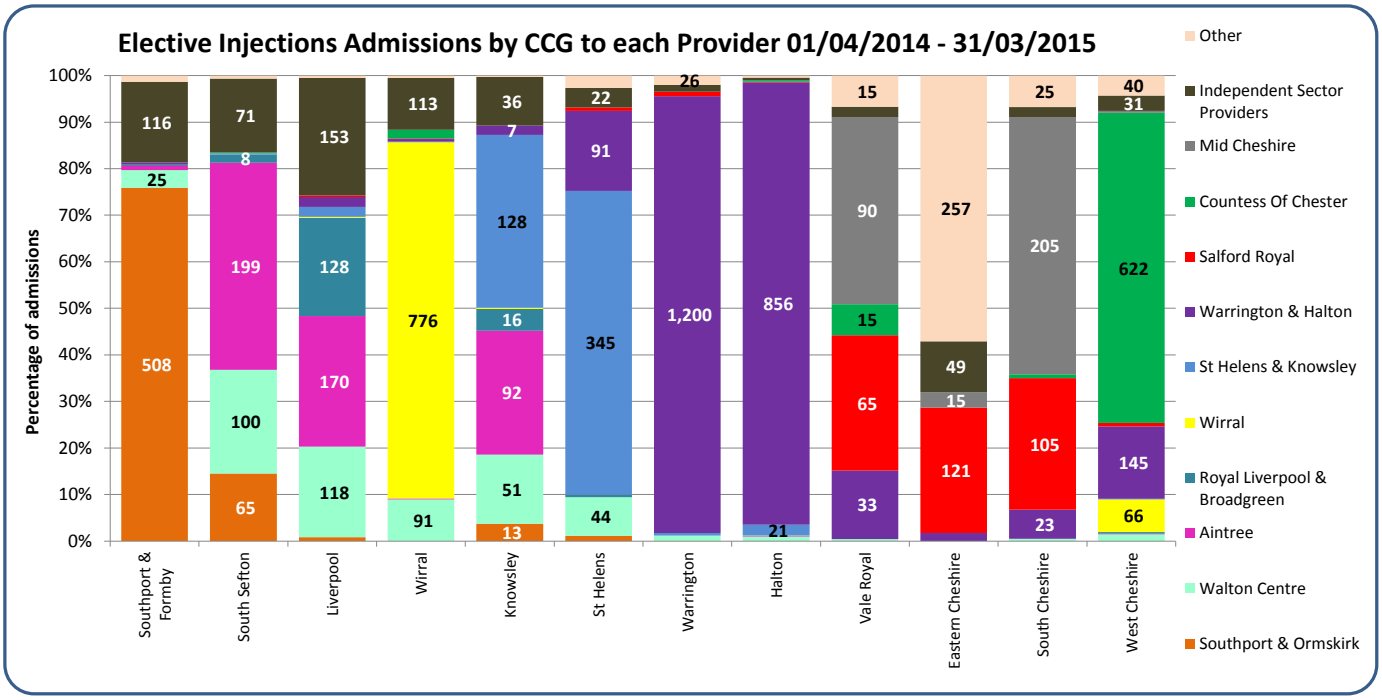
Activity is highest for the Wirral CCG who almost exclusively use the Walton Centre. Cheshire and Merseyside CCGs do not have high spinal surgery activity with Independent Sector Providers.

The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

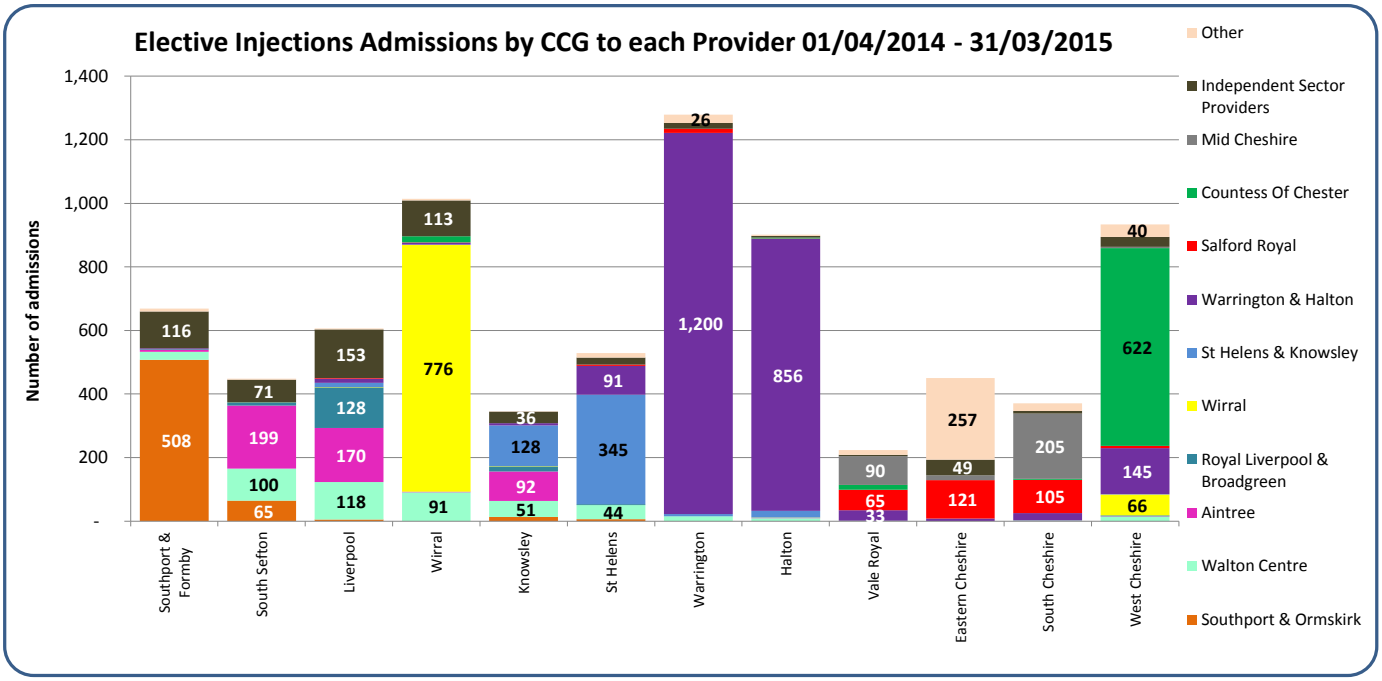
CCG activity to Hospital Trust

7. Patient flows to Hospital Trusts from CCGs for back pain in people aged 16 years and over (April 2014 - March 2015)

e. Hospital elective admissions for injections by CCG population (percentage of activity)



f. Hospital elective admissions for injections from each CCG (actual activity)



What is the data telling us?

There is variation between CCGs in terms of the number of the number of hospital trusts that their patients are admitted for injections for back or radicular pain.

Activity is highest for the Warrington CCG and similar to Halton CCG these admissions are to the local Trust which has hospital sites in both CCGs. Southport & Formby CCG and Liverpool CCG have the highest proportions of Independent Sector activity.

The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

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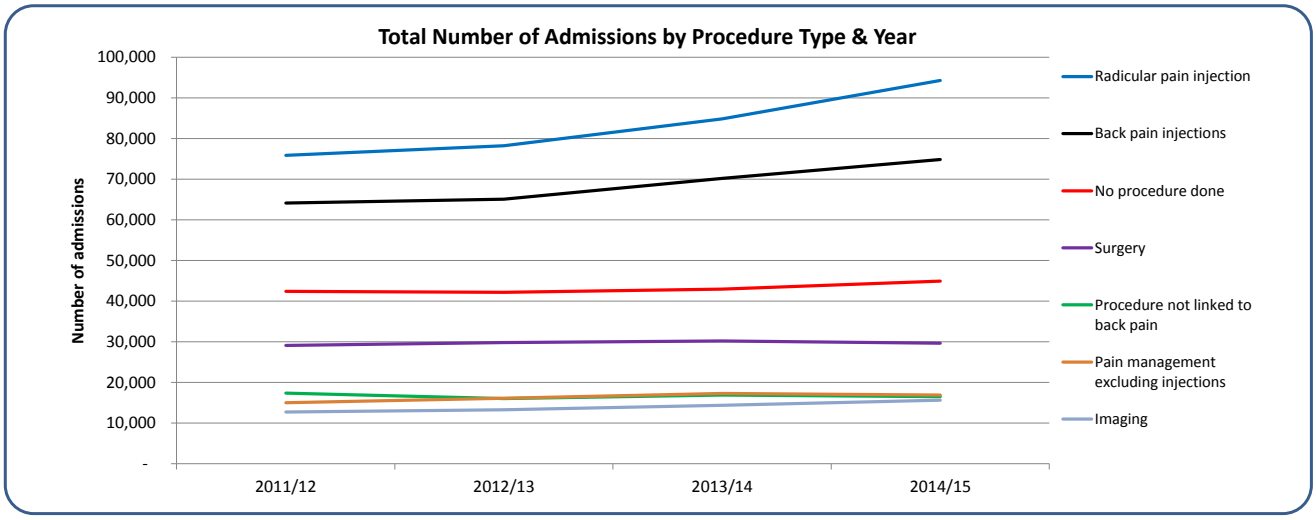
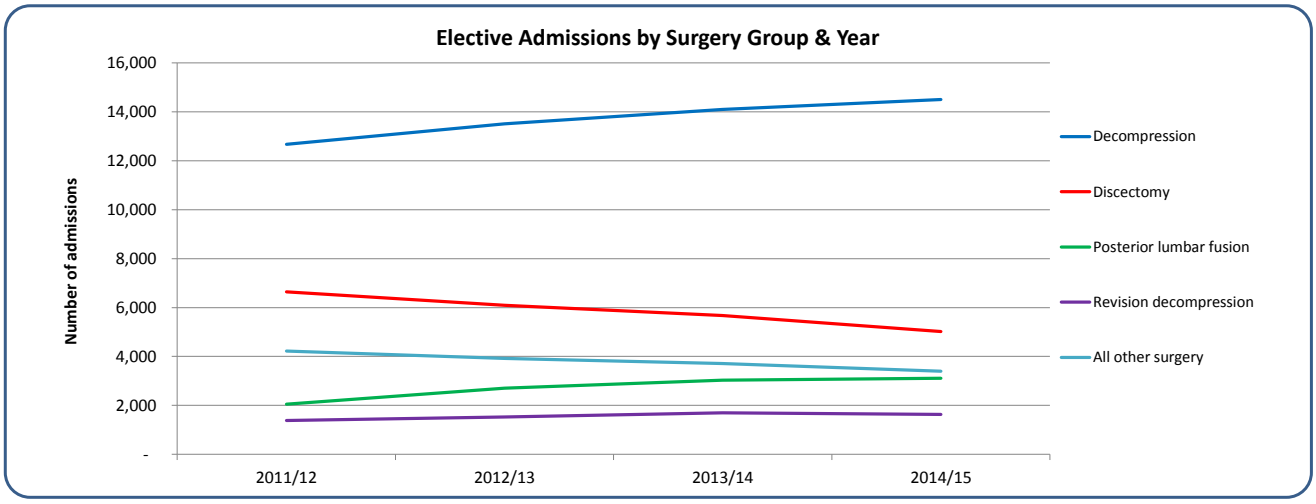
Hospital Trust activity (national level)

8. Hospital admissions for low back and radicular pain in people aged 16 years and over (1st April 2011 - 31st March 2015)

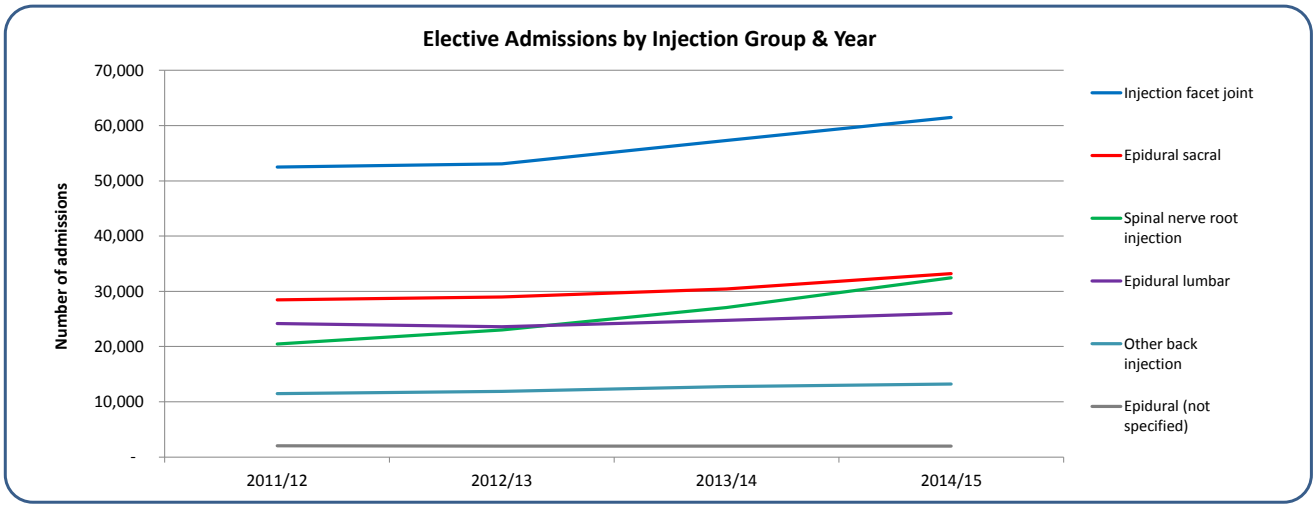
a. Hospital admissions by procedure type over time (all admission types)



b. Elective hospital admissions by surgery procedure type over time



c. Hospital admissions by injection procedure type over time



What is the data telling us?

These charts show national trends in the types of procedures undertaken during elective admissions including a group where no procedure was undertaken during their admission. There is also a category listed as 'procedure not linked to back pain' which reports admission activity where there is a primary diagnosis of back pain but with a procedure not linked to back pain.

The main procedure type relating to elective admissions are for back and radicular pain injections which has increased from a combined total of just under 140,000 to 170,000 episodes over the four year period. This is in stark contrast to number of admissions related to surgery which has remained relatively constant at 30,000 admissions per year. The proportion of admissions with no procedure reported has remained at approximately 15-16% of all activity.

The charts in sections b and c show the elective admissions over time specifically for different groups of surgery procedures and injections.

Hospital Trust activity

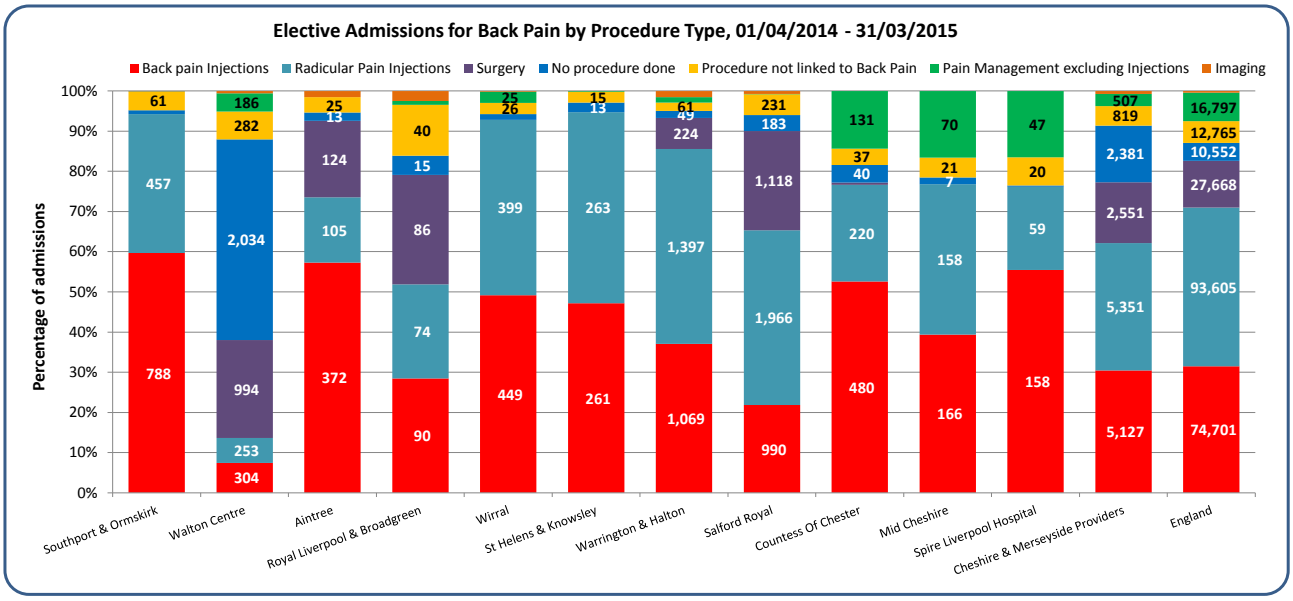
9. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

a. Elective hospital admissions by procedure type (national level including all providers)

Procedure type	Back	Radicular	Total	%
Radicular Pain Injections	40,034	53,571	**93,605**	**39.5%**
Back Pain Injections	62,317	12,384	**74,701**	**31.5%**
Surgery	3,925	23,743	**27,668**	**11.7%**
Pain Management excluding Injections	13,150	3,647	**16,797**	**7.1%**
Procedure not linked to Back Pain	8,197	4,568	**12,765**	**5.4%**
No procedure done	6,060	4,492	**10,552**	**4.4%**
Imaging	712	373	**1,085**	**0.5%**
Other Non-Surgical	53	30	**83**	**0.0%**
Total	**134,448**	**102,808**	**237,256**	**100%**

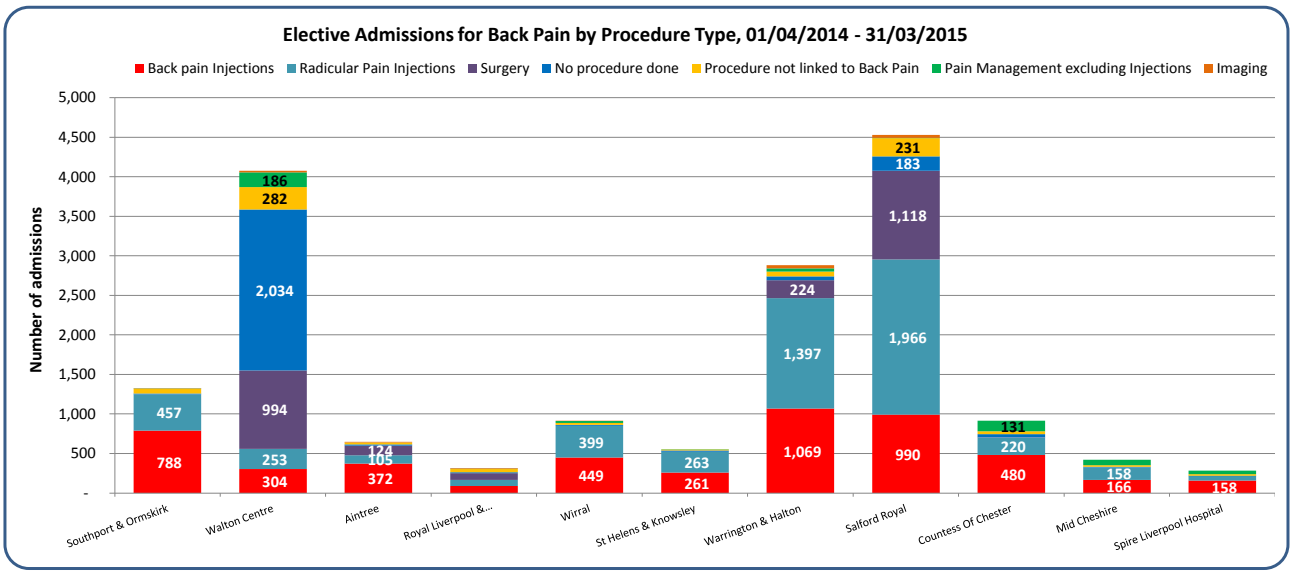
b. Number of elective admissions per hospital Trust, by procedure type (percentage of activity)

(Cheshire & Merseyside Providers only)



c. Number of elective admissions per hospital Trust, by procedure type (actual activity)

(Cheshire & Merseyside Providers only)



What is the data telling us?

The table shows the number of procedures done in the latest 12 month period, by procedure type, with injections being the most common elective procedure. Nationally only 4.4% of elective admissions have no procedure recorded (compared to 15-16% of all admission types - see previous sheet). In the Walton Centre, approximately 50% of their admissions have no procedure recorded.

Seven of the Cheshire and Merseyside Trusts have a higher proportion of elective activity for injections than the England rate and it is possible that the variation is due to differences in the point of delivery of care across hospital Trusts (for example it is possible that activity may also take place as outpatient procedures).

The data is shown in two ways, indicating both the proportion and amount of activity relating to each procedure.

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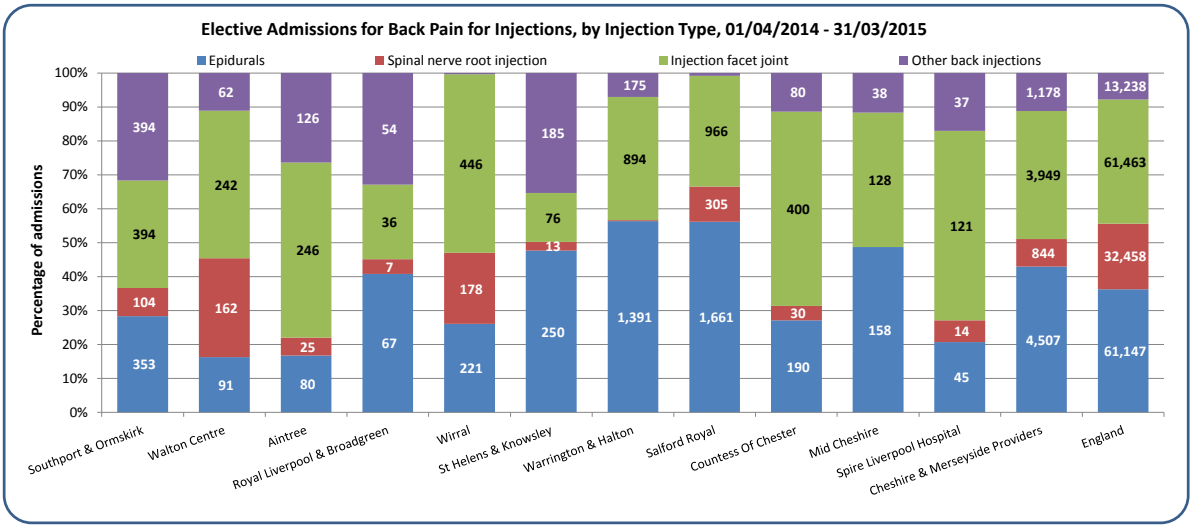
Hospital Trust activity

9. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

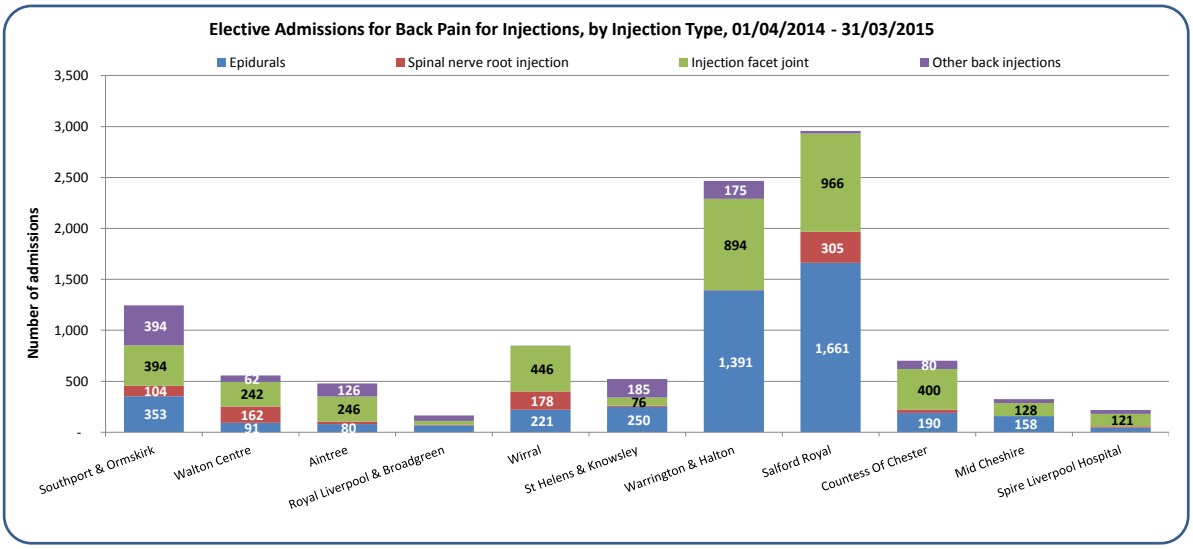
d. Number of elective admissions for injections per hospital Trust, by injection type (percentage of activity)

(Cheshire & Merseyside Providers only)

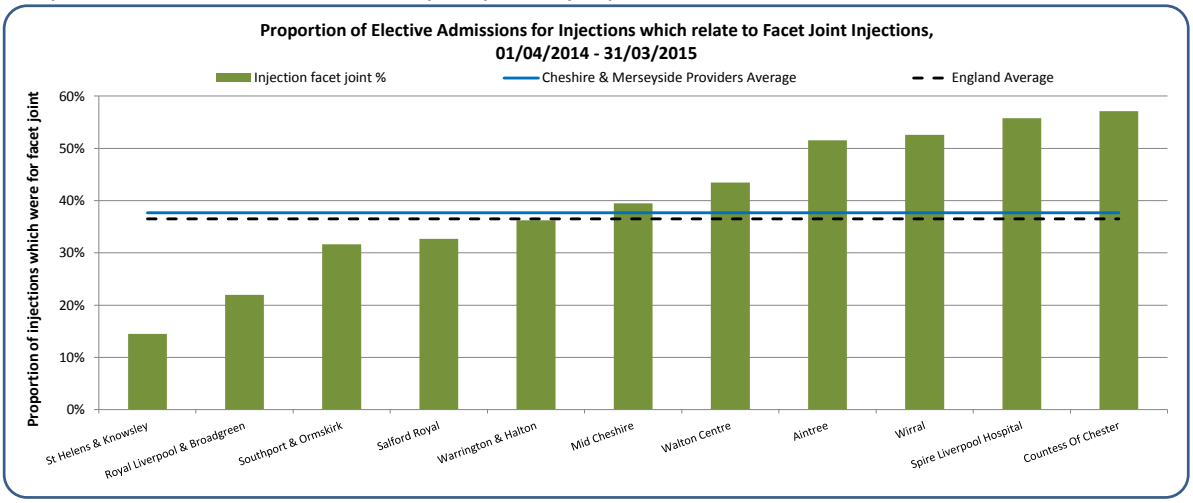


e. Number of elective admissions for injections per hospital Trust, by injection type (actual activity)

(Cheshire & Merseyside Providers only)



f. Proportion of elective admissions for lumbar facet joint injections, by hospital trust



What is the data telling us?

Epidurals and facet joint injections are those most frequently done within the Cheshire and Merseyside providers, constituting almost 81% of injection activity compared to 73% across England as a whole. Overall in the region there is a lower proportion of spinal nerve root injections (8%) compared to England (19%). Salford Royal and Warrington & Halton Trusts have notably higher activity than the other providers in this region.

The data is shown in two ways, indicating both the proportion and amount of activity relating to each provider.

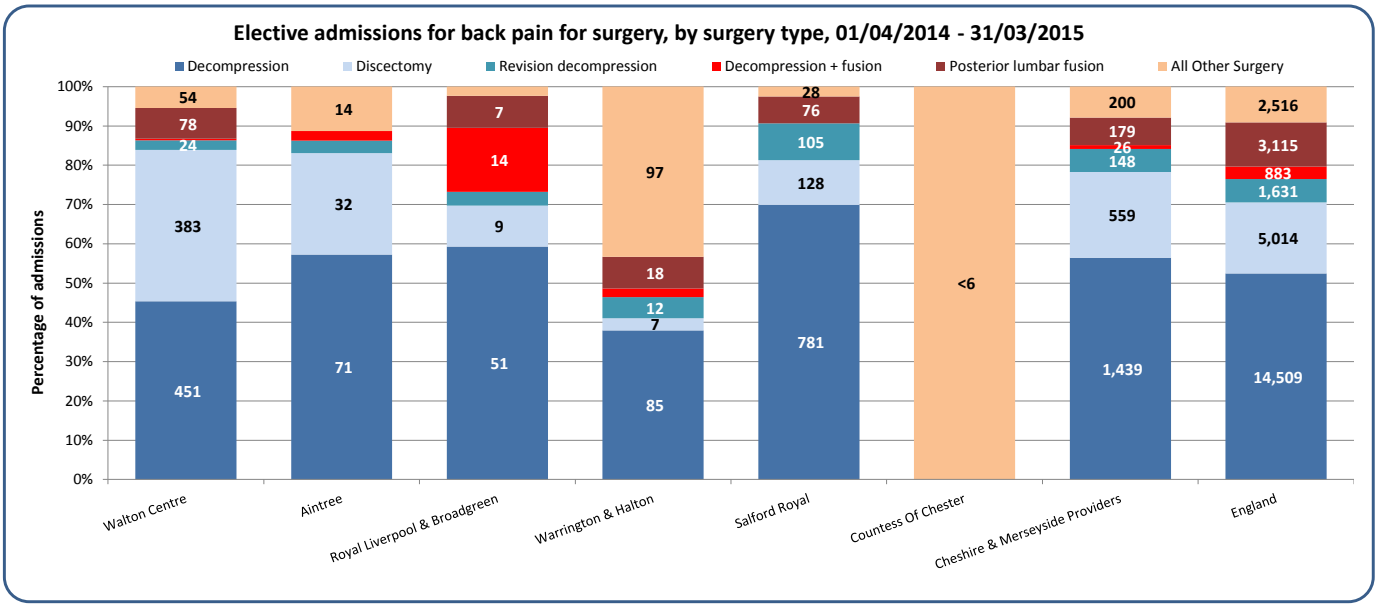
The proportion of facet joint injections done at Trust level ranges from 15% to 57% compared to the England figure of 37%.

Hospital Trust activity

9. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

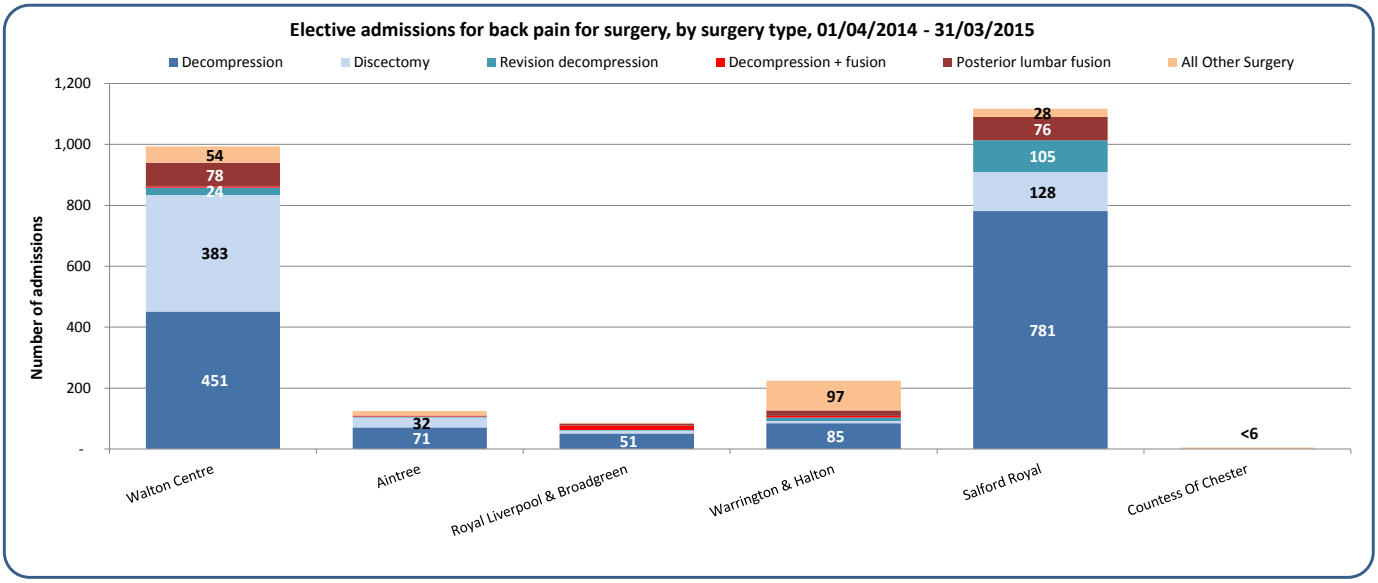
g. Number of elective admissions for surgery per hospital Trust, by surgery type (percentage of activity)

(Cheshire & Merseyside Providers only)



h. Number of elective admissions for surgery per hospital Trust, by surgery type (actual activity)

(Cheshire & Merseyside Providers only)



What is the data telling us?

The charts above show the range in activity relating specifically to elective admissions for surgery, by type of surgery, for Cheshire and Merseyside Providers. Overall the region does a lower proportion of spinal fusions compared to the England profile and there are wide variations in the mix or procedures undertaken at provider level.

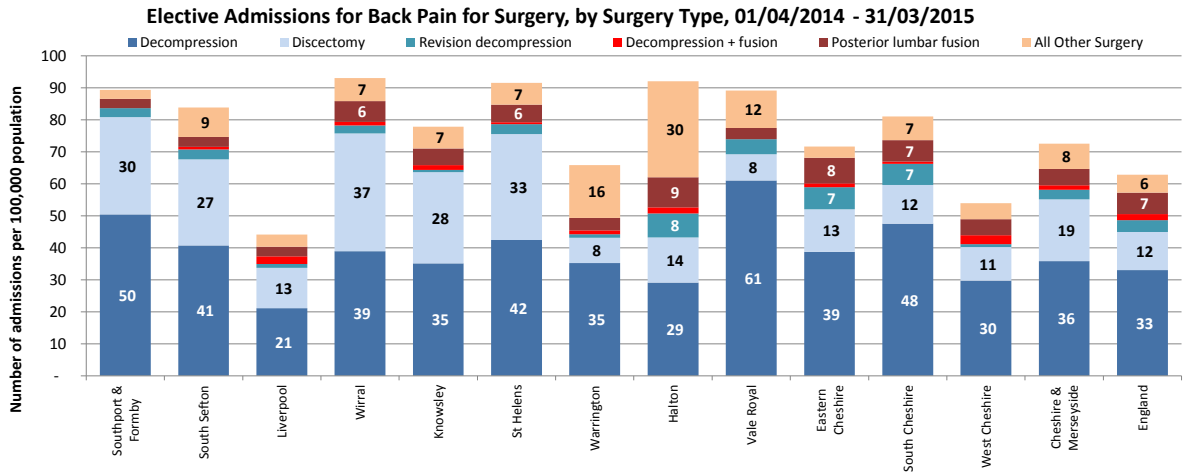
The Walton Centre and Salford Royal have the highest spinal surgery activity for this region with the Walton undertaking a higher proportion of discectomy.

The data is shown in two ways, indicating both the proportion and amount of activity relating to each surgery type.

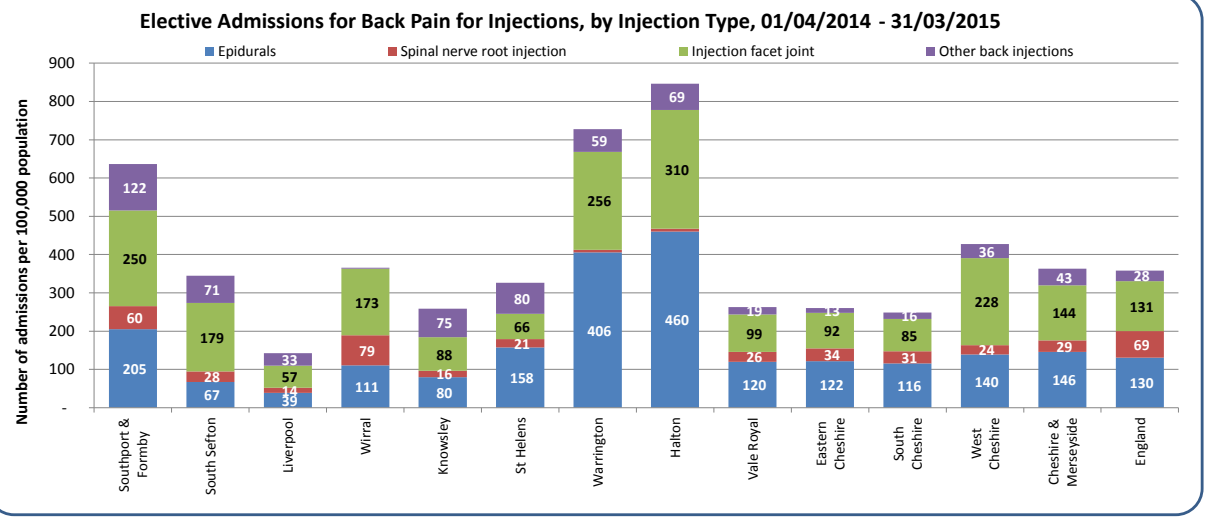
CCG activity by back pain procedure group

10. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

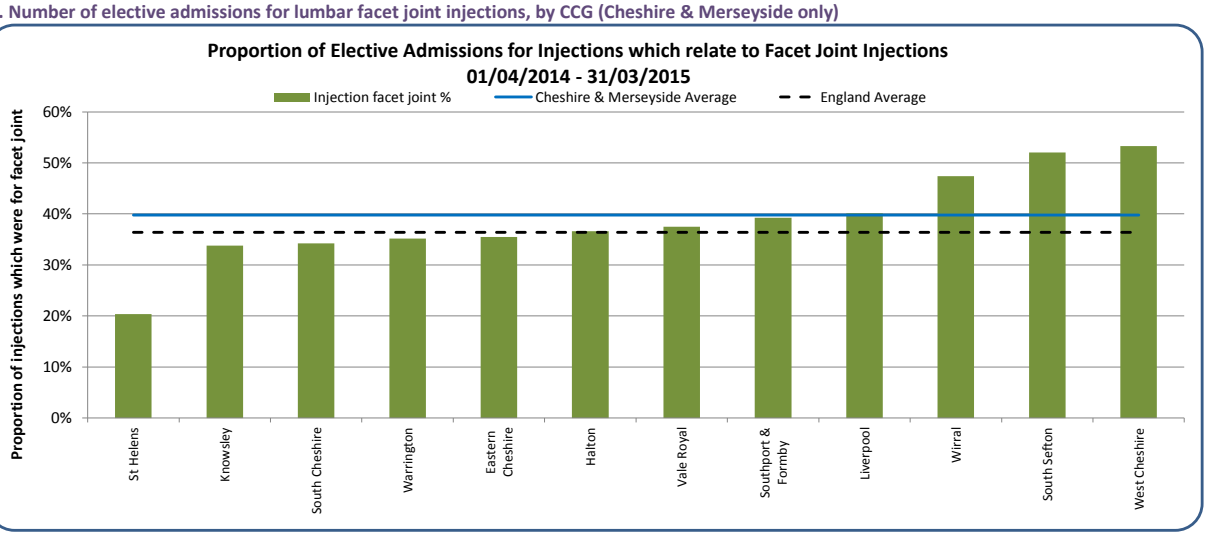
a. Number of elective admissions for surgery per CCG, by surgery type (Cheshire & Merseyside only)



b. Number of elective admissions for injections per CCG, by injection type (Cheshire & Merseyside only)



c. Number of elective admissions for lumbar facet joint injections, by CCG (Cheshire & Merseyside only)



What is the data telling us?

Chart 10a shows the range in the activity rate per 100,000 relating specifically to elective admissions for surgery, by type of surgery, for the Cheshire and Merseyside CCGs, with chart 9b showing the same for injections.

Halton CCG have a notably higher rate of 'all other surgery' (category including procedures with limited clinical effectiveness evidence) compared to the England rates (30 vs. 6 per 100,000).

Halton and Warrington CCGs have notably higher rates for injections overall compared to England rates despite their extremely low rates of spinal nerve root injections. Proportion of lumbar facet joint injections varies from 20% at St Helen's CCG to 53% at West Cheshire CCG.

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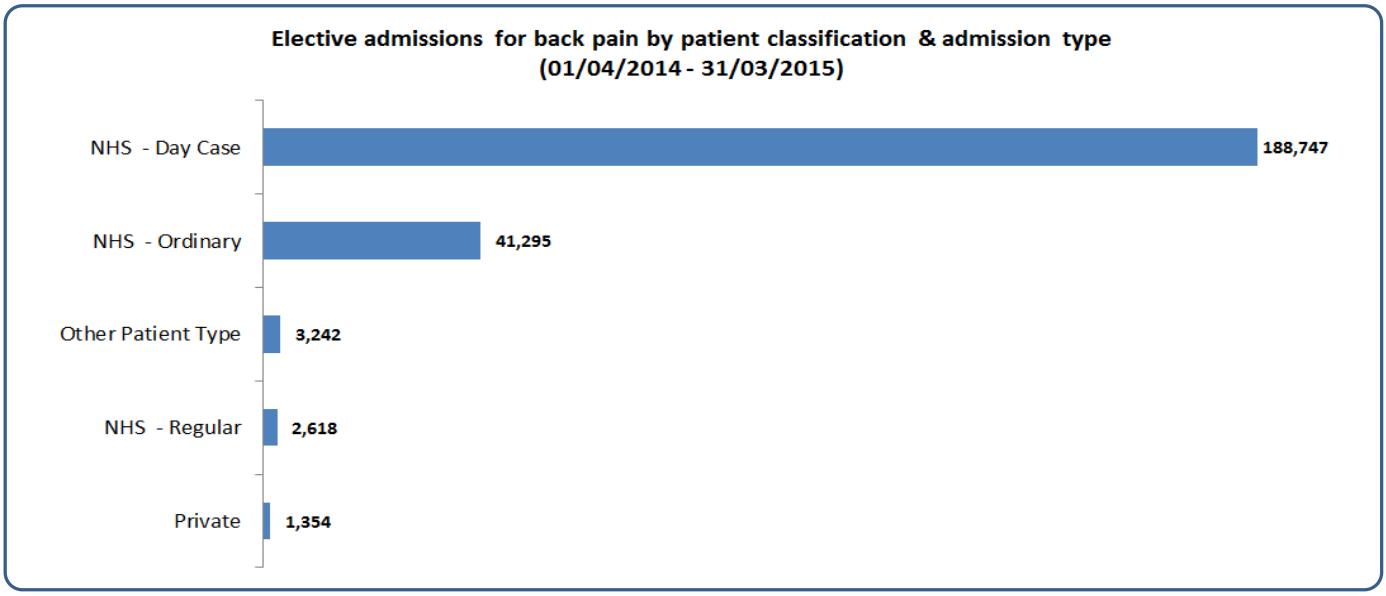
Hospital Trust activity

11. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

a. Elective admissions for back pain by patient classification and type, all providers



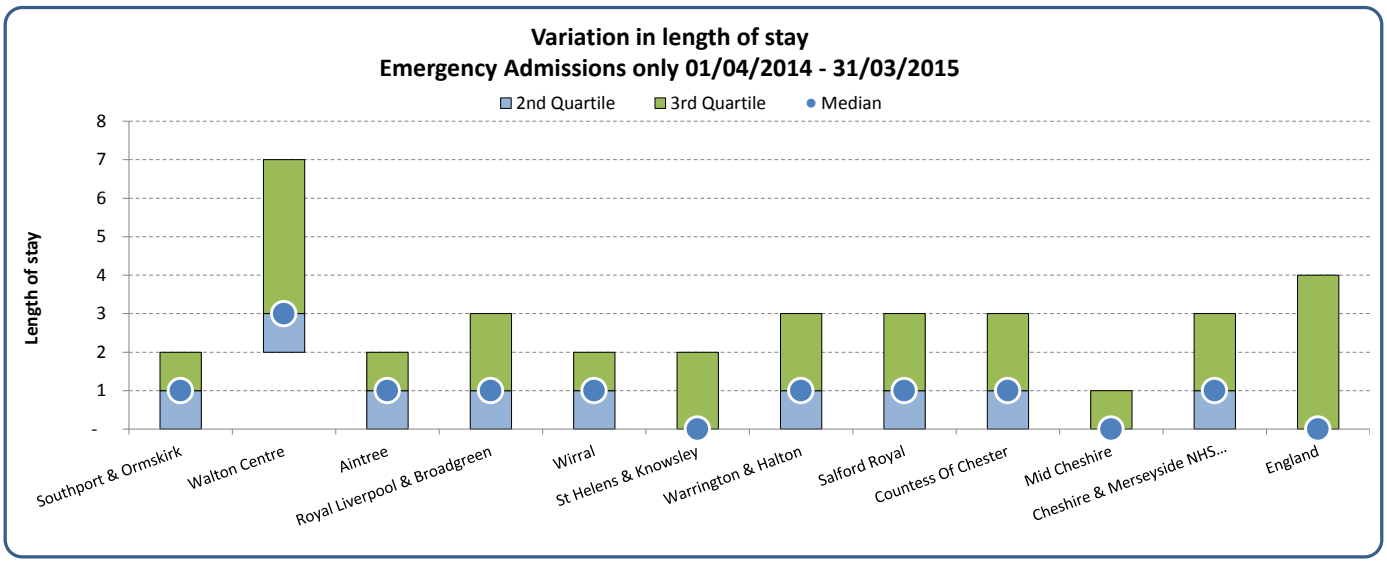
Other Patient Types are Amenity patients and Category II patients, and where the Administrative Category is unknown.

b. Elective admissions for back pain, average length of stay by provider

67% of elective admissions for back pain are day cases, therefore the range in length of stay has not been calculated.

c. Emergency admissions for back pain, average length of stay by provider

(Cheshire & Merseyside Trusts only)



What is the data telling us?

Over 98% of elective admissions for back pain in the current data extraction relate to NHS patients, with just over 0.5% relating to private patients.

The boxplot indicates the variation in length of stay for emergency admissions to Cheshire and Merseyside Trusts and shows that all except two Trusts have a higher median length of stay (ranging from 1 to 3 days), compared to the England rate of zero days.

Hospital Trust Activity Total Costs

12. Total costs to the commissioner for hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

a. Total Costs by Admission Method Type (Cheshire & Merseyside FTs only)

Provider Name	Elective	Emergency	Other	Total
Salford Royal	£ 8,494,749	£ 1,716,990	£ 7,696	**£ 10,219,434**
Walton Centre	£ 7,426,010	£ 870,753	£ 22,441	**£ 8,319,204**
Warrington & Halton	£ 3,234,809	£ 451,811	£ 1,959	**£ 3,688,579**
Southport & Ormskirk	£ 1,102,958	£ 271,189	£ 4,982	**£ 1,379,130**
Aintree	£ 781,384	£ 554,068	£ 1,252	**£ 1,336,704**
Royal Liverpool & Broadgreen	£ 604,427	£ 686,751	£ 945	**£ 1,292,123**
Wirral	£ 574,187	£ 646,252	£ 1,124	**£ 1,221,563**
St Helens & Knowsley	£ 346,953	£ 614,969	£ -	**£ 961,922**
Countess Of Chester	£ 500,193	£ 342,731	£ -	**£ 842,924**
Mid Cheshire	£ 245,896	£ 312,599	£ 3,388	**£ 561,883**
Total	**£ 23,311,566**	**£ 6,468,114**	**£ 43,787**	**£ 29,823,466**

b. Total Costs by Procedure Type (Cheshire & Merseyside FTs only)

Provider Name	Surgery	Radicular pain Injections	Back pain Injections	No procedure done	Procedure not linked to back pain	Imaging	Pain Management excluding Injections	Other Non-Surgical	Total
Salford Royal	£ 5,529,604	£ 1,417,305	£ 605,953	£ 646,873	£ 1,453,088	£ 558,080	£ 8,530	£ -	**£ 10,219,434**
Walton Centre	£ 5,101,683	£ 163,732	£ 161,719	£ 1,270,055	£ 1,114,512	£ 99,721	£ 407,783	£ -	**£ 8,319,204**
Warrington & Halton	£ 1,239,029	£ 1,035,260	£ 791,236	£ 252,447	£ 207,903	£ 136,752	£ 25,953	£ -	**£ 3,688,579**
Southport & Ormskirk	£ -	£ 301,345	£ 757,386	£ 165,043	£ 54,177	£ 99,161	£ 2,017	£ -	**£ 1,379,130**
Aintree	£ 472,164	£ 70,366	£ 211,091	£ 357,466	£ 55,297	£ 170,320	£ -	£ -	**£ 1,336,704**
Royal Liverpool & Broadgreen	£ 508,661	£ 47,571	£ 37,543	£ 497,426	£ 98,583	£ 97,411	£ 4,928	£ -	**£ 1,292,123**
Wirral	£ -	£ 242,350	£ 272,560	£ 470,834	£ 57,450	£ 134,962	£ 43,407	£ -	**£ 1,221,563**
St Helens & Knowsley	£ -	£ 176,536	£ 156,335	£ 492,140	£ 55,164	£ 81,203	£ 543	£ -	**£ 961,922**
Countess Of Chester	£ 5,094	£ 133,736	£ 271,178	£ 212,948	£ 71,944	£ 82,076	£ 65,949	£ -	**£ 842,924**
Mid Cheshire	£ -	£ 103,592	£ 94,013	£ 207,788	£ 29,373	£ 87,912	£ 39,206	£ -	**£ 561,883**
Total	**£ 12,856,235**	**£ 3,691,793**	**£ 3,359,014**	**£ 4,573,021**	**£ 3,197,490**	**£ 1,547,599**	**£ 598,316**	**£ -**	**£ 29,823,466**

What is the data telling us?

Across all Cheshire and Merseyside Trusts in 2014/15 the total cost to commissioners for back and radicular pain admissions was almost £29.8 million, with 78% of the costs attributed to elective activity. Note that these costs are by provider Trust and will include activity for CCGs outside of the Cheshire and Merseyside region.

The surgery procedures group accounts for almost 43% of the total cost of all procedures, and the cost of injections is an additional 24% of the total.

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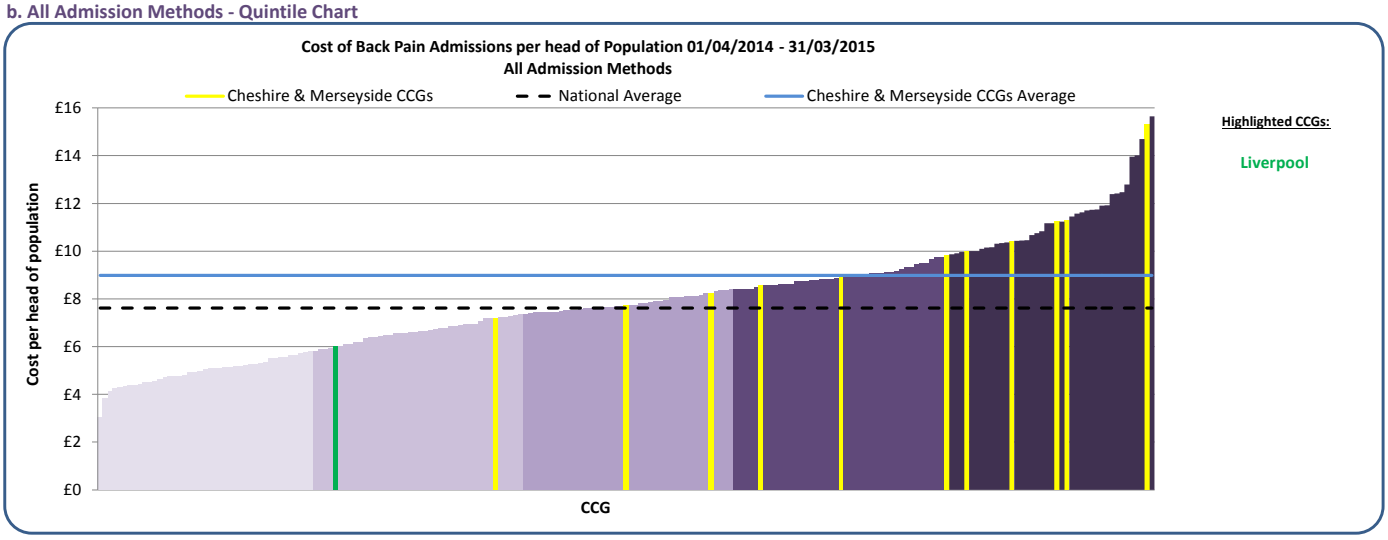
CCG Activity Total Costs

13. Hospital admissions Total Cost for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

a. All Admission Methods - Table

	All Admissions		Elective Admissions		Emergency Admissions		
Responsible CCG Name	Cost per head of Population	Total Cost	Cost per head of Population	Total Cost	Cost per head of Population	Total Cost	Registered Population (Ages 15+)
Liverpool	£ 6.00	£ 2,559,465	£ 3.78	£ 1,613,809	£ 2.21	£ 942,895	426,390
Eastern Cheshire	£ 7.21	£ 1,247,468	£ 5.51	£ 954,487	£ 1.51	£ 262,049	173,088
South Cheshire	£ 7.73	£ 1,153,897	£ 6.14	£ 917,847	£ 1.55	£ 232,201	149,368
West Cheshire	£ 8.23	£ 1,798,162	£ 6.31	£ 1,379,907	£ 1.91	£ 417,432	218,615
Vale Royal	£ 8.56	£ 729,376	£ 6.57	£ 559,801	£ 1.95	£ 166,188	85,235
Knowsley	£ 8.90	£ 1,188,880	£ 6.36	£ 850,062	£ 2.47	£ 330,272	133,655
St Helens	£ 9.84	£ 1,602,562	£ 7.39	£ 1,202,614	£ 2.46	£ 399,948	162,810
South Sefton	£ 9.98	£ 1,297,981	£ 7.43	£ 966,760	£ 2.53	£ 329,593	130,047
Wirral	£ 10.43	£ 2,891,123	£ 7.75	£ 2,147,666	£ 2.68	£ 742,333	277,297
Southport & Formby	£ 11.24	£ 1,182,164	£ 9.16	£ 963,110	£ 2.08	£ 219,054	105,191
Warrington	£ 11.27	£ 1,987,032	£ 9.54	£ 1,680,465	£ 1.74	£ 306,567	176,240
Halton	£ 15.31	£ 1,629,987	£ 12.33	£ 1,312,939	£ 2.98	£ 317,048	106,473
Cheshire & Merseyside Total	**£ 8.99**	**£ 19,268,096**	**£ 6.78**	**£ 14,549,466**	**£ 2.18**	**£ 4,665,579**	**2,144,409**

b. All Admission Methods - Quintile Chart



c. Elective Admissions only, by Procedure Type

Responsible CCG Name	Surgery	Radicular pain Injections	Back pain Injections	No procedure done	Procedure not linked to back pain	Imaging	Pain Management excluding Injections	Other Non-Surgical	Total Cost
Wirral	£ 1,114,268	£ 327,417	£ 292,392	£ 164,306	£ 128,862	£ 4,883	£ 115,538	£ -	**£ 2,147,666**
Warrington	£ 526,020	£ 530,489	£ 419,744	£ 54,020	£ 100,346	£ 11,387	£ 38,458	£ -	**£ 1,680,465**
Liverpool	£ 757,371	£ 139,121	£ 203,918	£ 262,549	£ 167,635	£ 9,728	£ 73,486	£ -	**£ 1,613,809**
West Cheshire	£ 502,512	£ 230,573	£ 331,003	£ 108,131	£ 99,913	£ 8,014	£ 99,760	£ -	**£ 1,379,907**
Halton	£ 459,929	£ 362,873	£ 294,540	£ 21,375	£ 149,705	£ 7,340	£ 17,178	£ -	**£ 1,312,939**
St Helens	£ 623,981	£ 196,229	£ 141,996	£ 61,590	£ 147,284	£ 5,926	£ 25,607	£ -	**£ 1,202,614**
South Sefton	£ 397,942	£ 77,566	£ 198,373	£ 162,918	£ 98,254	£ 6,183	£ 25,525	£ -	**£ 966,760**
Southport & Formby	£ 372,499	£ 182,079	£ 300,037	£ 16,150	£ 67,940	£ 619	£ 23,787	£ -	**£ 963,110**
Eastern Cheshire	£ 561,286	£ 183,278	£ 108,465	£ 12,154	£ 54,997	£ 1,619	£ 30,279	£ 2,409	**£ 954,487**
South Cheshire	£ 569,826	£ 146,119	£ 85,384	£ 15,439	£ 71,346	£ 3,128	£ 26,605	£ -	**£ 917,847**
Knowsley	£ 426,512	£ 83,886	£ 135,168	£ 84,576	£ 88,818	£ 5,134	£ 25,968	£ -	**£ 850,062**
Vale Royal	£ 314,230	£ 83,314	£ 62,562	£ 11,352	£ 69,349	£ 1,584	£ 17,409	£ -	**£ 559,801**

What is the data telling us?

There is wide variation across the CCGs in Cheshire and Merseyside in cost per head of population for admissions related to back and radicular pain.

Halton CCG has the highest spend per head of population nationally (£15.31) and has consistently high costs for both elective (£12.33) and emergency (£2.98) admissions which are a reflection of the very high admission rates. In contrast, Warrington CCG has relatively low costs per head for emergency admissions (£1.74), but very high costs for elective admissions £9.54) putting it alongside Southport & Formby CCG which has high costs for all admissions.

The final table shows the total spend for elective admissions for each CCG for 2014/15 (based on national tariff) and includes a breakdown of this spend by procedure type. Surgery generally accounts for the majority of the spend but in Halton CCG, Southport & Formby CCG and in particular Warrington CCG considerably more is spent on admissions for injections compared to what is spent on surgery.

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14. Back & Radicular Pain Admissions Breakdown for the Cheshire & Merseyside Region

Highlighted Provider Data is included in this report
(Blue=NHS Trust & Green=Independent Sector Provider)

		Elective Admissions			Emergency	Other Admission	
Code	**Provider Name**	Surgery	Injections	Other	**Admissions**	**Types**	**Total**
RET	THE WALTON CENTRE NHS FOUNDATION TRUST	661	470	2,004	178	<6	**3,315**
RWW	WARRINGTON AND HALTON HOSPITALS NHS FOUNDATION TRUST	205	2,385	179	377	<6	**3,148**
RBL	WIRRAL UNIVERSITY TEACHING HOSPITAL NHS FOUNDATION TRUST	-	845	66	625	<6	**1,537**
REM	AINTREE UNIVERSITY HOSPITAL NHS FOUNDATION TRUST	124	471	47	582	<6	**1,225**
RBN	ST HELENS AND KNOWSLEY HOSPITALS NHS TRUST	-	517	29	624	-	**1,170**
RJR	COUNTESS OF CHESTER HOSPITAL NHS FOUNDATION TRUST	<6	663	190	263	<6	**1,123**
RQ6	ROYAL LIVERPOOL AND BROADGREEN UNIVERSITY HOSPITALS NHS TRUST	85	160	65	564	<6	**878**
RVY	SOUTHPORT AND ORMSKIRK HOSPITAL NHS TRUST	-	597	36	186	-	**819**
RBT	MID CHESHIRE HOSPITALS NHS FOUNDATION TRUST	-	314	94	372	<6	**784**
RM3	SALFORD ROYAL NHS FOUNDATION TRUST	217	319	62	57	<6	**656**
NT337	SPIRE LIVERPOOL HOSPITAL	-	202	61	-	-	**263**
NVC16	RENACRES HOSPITAL	14	224	<6	-	-	**243**
RWJ	STOCKPORT NHS FOUNDATION TRUST	29	142	20	29	6	**226**
RM2	UNIVERSITY HOSPITAL OF SOUTH MANCHESTER NHS FOUNDATION TRUST	-	117	19	17	-	**153**
RJN	EAST CHESHIRE NHS TRUST	-	-	<6	125	8	**134**
NT325	SPIRE MURRAYFIELD HOSPITAL	-	126	6	-	-	**132**
RL1	THE ROBERT JONES AND AGNES HUNT ORTHOPAEDIC HOSPITAL NHS FOUNDATION TRUST	36	46	13	<6	-	**96**
RJE	UNIVERSITY HOSPITALS OF NORTH MIDLANDS NHS TRUST	27	23	23	17	<6	**91**
NT403	BMI - THE BEARDWOOD HOSPITAL	-	24	10	-	-	**34**
NT401	BMI - THE ALEXANDRA HOSPITAL	7	21	<6	-	-	**32**
RRF	WRIGHTINGTON, WIGAN AND LEIGH NHS FOUNDATION TRUST	-	19	<6	8	-	**30**
RW3	CENTRAL MANCHESTER UNIVERSITY HOSPITALS NHS FOUNDATION TRUST	-	19	<6	<6	-	**25**
RXN	LANCASHIRE TEACHING HOSPITALS NHS FOUNDATION TRUST	<6	11	7	-	-	**20**
NT339	SPIRE REGENCY HOSPITAL	<6	12	<6	-	-	**16**
RW6	PENNINE ACUTE HOSPITALS NHS TRUST	-	10	<6	<6	-	**13**
NT404	BMI - THE BEAUMONT HOSPITAL	-	9	<6	-	-	**11**
NT230	NUFFIELD HEALTH, NORTH STAFFORDSHIRE HOSPITAL	<6	6	-	-	-	**10**
RBS	ALDER HEY CHILDREN'S NHS FOUNDATION TRUST	<6	<6	<6	<6	-	**7**
RRV	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	-	<6	<6	-	-	**7**
NVC07	FULWOOD HALL HOSPITAL	<6	<6	-	-	-	**6**
RTD	THE NEWCASTLE UPON TYNE HOSPITALS NHS FOUNDATION TRUST	-	<6	<6	<6	-	**<6**
RXR	EAST LANCASHIRE HOSPITALS NHS TRUST	-	<6	<6	<6	-	**<6**
NVG01	FAIRFIELD HOSPITAL	-	-	<6	-	-	**<6**
RBV	THE CHRISTIE NHS FOUNDATION TRUST				<6	-	**<6**
REN	THE CLATTERBRIDGE CANCER CENTRE NHS FOUNDATION TRUST				<6	-	**<6**
RJ1	GUY'S AND ST THOMAS' NHS FOUNDATION TRUST	-	-	<6	-	-	**<6**
RWY	CALDERDALE AND HUDDERSFIELD NHS FOUNDATION TRUST	-	<6	-	<6	-	**<6**
RXW	SHREWSBURY AND TELFORD HOSPITAL NHS TRUST				<6	-	**<6**
NT324	SPIRE CHESHIRE HOSPITAL	-	-	<6	-	-	**<6**
RAN	ROYAL NATIONAL ORTHOPAEDIC HOSPITAL NHS TRUST	-	<6	<6	-	-	**<6**
RKB	UNIVERSITY HOSPITALS COVENTRY AND WARWICKSHIRE NHS TRUST	-	<6	-	<6	-	**<6**
RKE	THE WHITTINGTON HOSPITAL NHS TRUST				<6	-	**<6**
RR8	LEEDS TEACHING HOSPITALS NHS TRUST	<6	-	-	<6	-	**<6**
RWA	HULL AND EAST YORKSHIRE HOSPITALS NHS TRUST	-	-	<6	<6	-	**<6**
RXL	BLACKPOOL TEACHING HOSPITALS NHS FOUNDATION TRUST	-	<6	-	<6	-	**<6**
RXP	COUNTY DURHAM AND DARLINGTON NHS FOUNDATION TRUST				<6	-	**<6**
R1E	STAFFORDSHIRE AND STOKE ON TRENT PARTNERSHIP NHS TRUST	-	-	<6	-	-	**<6**
R1H	BARTS HEALTH NHS TRUST				<6	-	**<6**
RA9	SOUTH DEVON HEALTHCARE NHS FOUNDATION TRUST				<6	-	**<6**
RAL	ROYAL FREE LONDON NHS FOUNDATION TRUST				<6	-	**<6**
RBA	TAUNTON AND SOMERSET NHS FOUNDATION TRUST				<6	-	**<6**
RBQ	LIVERPOOL HEART AND CHEST HOSPITAL NHS FOUNDATION TRUST				<6	-	**<6**
RCB	YORK TEACHING HOSPITAL NHS FOUNDATION TRUST				<6	-	**<6**
REP	LIVERPOOL WOMEN'S NHS FOUNDATION TRUST				<6	-	**<6**
RGN	PETERBOROUGH AND STAMFORD HOSPITALS NHS FOUNDATION TRUST				<6	-	**<6**
RH8	ROYAL DEVON AND EXETER NHS FOUNDATION TRUST	-	<6	-	-	-	**<6**
RHM	UNIVERSITY HOSPITAL SOUTHAMPTON NHS FOUNDATION TRUST				<6	-	**<6**
RHQ	SHEFFIELD TEACHING HOSPITALS NHS FOUNDATION TRUST				<6	-	**<6**
RHW	ROYAL BERKSHIRE NHS FOUNDATION TRUST	<6	-	-	-	-	**<6**
RJC	SOUTH WARWICKSHIRE NHS FOUNDATION TRUST				<6	-	**<6**
RJF	BURTON HOSPITALS NHS FOUNDATION TRUST				<6	-	**<6**
RL4	THE ROYAL WOLVERHAMPTON NHS TRUST				<6	-	**<6**
RM1	NORFOLK AND NORWICH UNIVERSITY HOSPITALS NHS FOUNDATION TRUST				<6	-	**<6**
RMP	TAMESIDE HOSPITAL NHS FOUNDATION TRUST				<6	-	**<6**
RN3	GREAT WESTERN HOSPITALS NHS FOUNDATION TRUST				<6	-	**<6**
RP5	DONCASTER AND BASSETLAW HOSPITALS NHS FOUNDATION TRUST				<6	-	**<6**
RRK	UNIVERSITY HOSPITALS BIRMINGHAM NHS FOUNDATION TRUST	-	<6	-	-	-	**<6**
RTE	GLOUCESTERSHIRE HOSPITALS NHS FOUNDATION TRUST				<6	-	**<6**
RTH	OXFORD UNIVERSITY HOSPITALS NHS TRUST				<6	-	**<6**
RVR	EPSOM AND ST HELIER UNIVERSITY HOSPITALS NHS TRUST				<6	-	**<6**
RVW	NORTH TEES AND HARTLEPOOL NHS FOUNDATION TRUST	-	-	<6	-	-	**<6**
RYJ	IMPERIAL COLLEGE HEALTHCARE NHS TRUST				<6	-	**<6**
NT497	BMI GISBURNE PARK HOSPITAL	-	<6	-	-	-	**<6**
NTX01	ONE HEALTH GROUP LTD	-	-	<6	-	-	**<6**
NYW04	ASPEN - CLAREMONT HOSPITAL	-	<6	-	-	-	**<6**
Total		**1,427**	**7,770**	**2,977**	**4,072**	**32**	**16,278**

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If yes, can we produce a meaningful suppressed version?	Yes, the small numbers in this report have been suppressed. Observed events less than 6 have been replaced by "<6". Rates where the numerator or denominator are less than 6 have been shown, although to calculate that small number would not be possible from the data shown here.
If not, the Epidemiologist AND Director must justify why not here, highlight, and agree the need for an NDA	
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