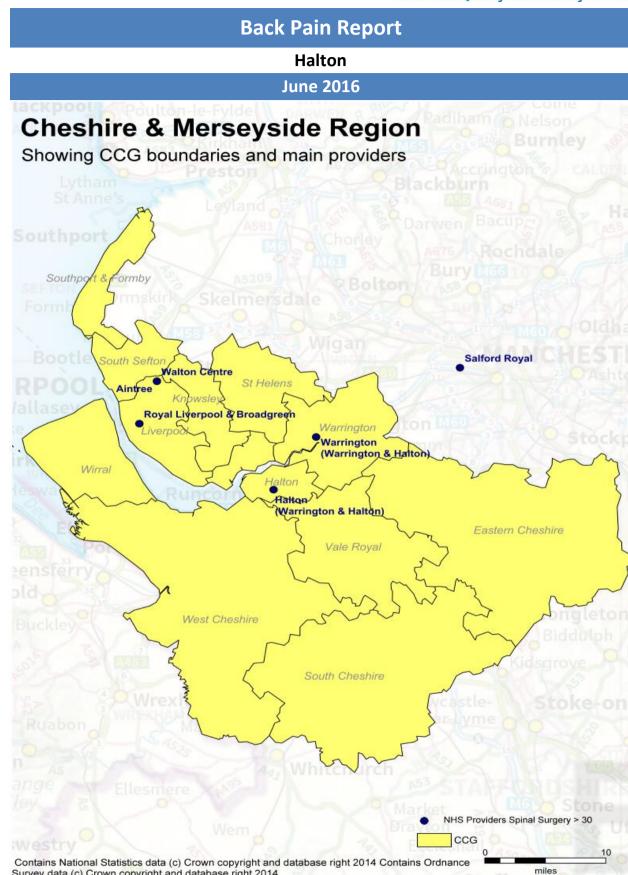


North East Quality Observatory Service



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BetterKnowledgeBetterCareBetterOutcomes

neqos@nhs.net www.neqos.nhs.uk

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

This work has been funded through the Getting It Right First Time (GIRFT) project that is part of the Department of Health funded Clinically-Led Quality and Efficiency Programme.

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

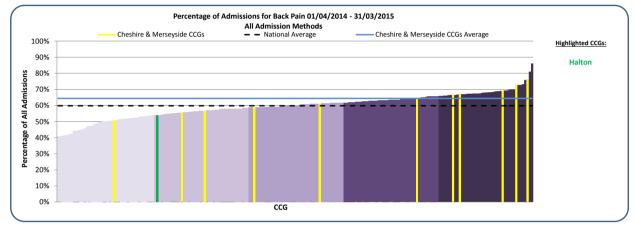
Clinical Commissioning Group (CCG) activity summary

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					
Merseyside CCGs	Back	Radicular	Total	% Back	% Radicular
	Back 7,270	Radicular 4,904	Total 12,174	% Back 59.7%	
CCGs				,	40.3%
CCGs Elective	7,270	4,904	12,174	59.7%	40.3% 21.9%

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)

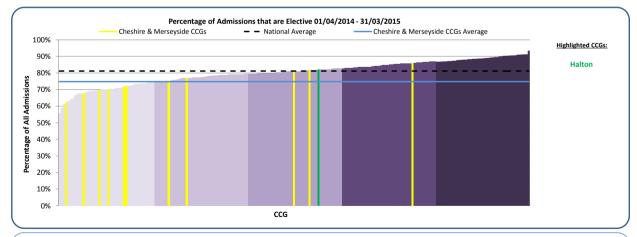
Eastern Cheshire	50.7%	Southport & Formby	64.8%
Halton	53.9%	South Sefton	66.5%
Warrington	55.6%	Knowsley	67.0%
Vale Royal	56.7%	Liverpool	69.1%
St Helens	58.8%	Wirral	72.2%
South Cheshire	61.2%	West Cheshire	76.2%
Cheshire & Merseyside CCGs	64.3%	England	59.8%



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%
	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%.

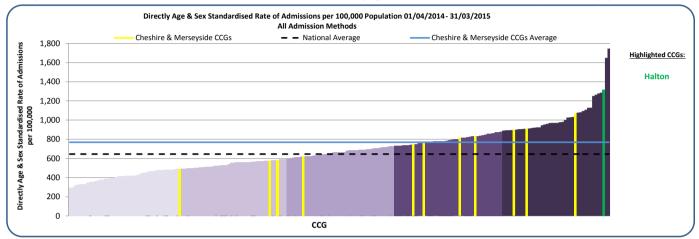
Approximately 81% of back and radicular pain admissions are elective, with Cheshire & Merseyside much lower than the national rate at 75%. At CCG level in Cheshire & Merseyside the proportion of elective admissions across CCGs ranges from 62% in Liverpool to 86% in Warrington.

Clinical Commissioning Group (CCG) activity

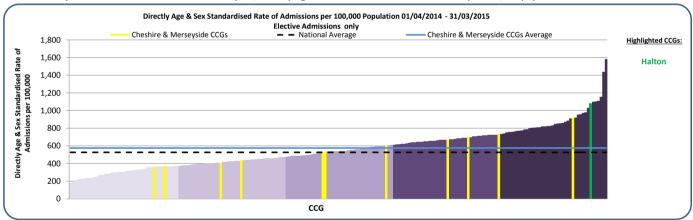
a. Hospital admissions for back pain by CCG (all admission methods), Directly Age & S	Sex Standardised Admission rate per 100,000 population
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CCG name	All	Elective	Emergency	CCG name	All	Elective	Emergency
Halton	1316.2	1076.9	239.3	Knowsley	759.7	518.3	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

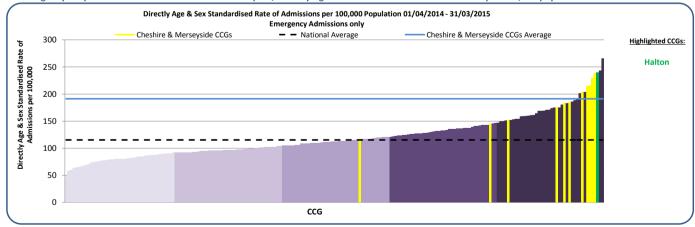
b. Hospital admissions for back and radicular pain (all admission methods), Directly Age & Sex Standardised Admission rate per 100,000 population



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).

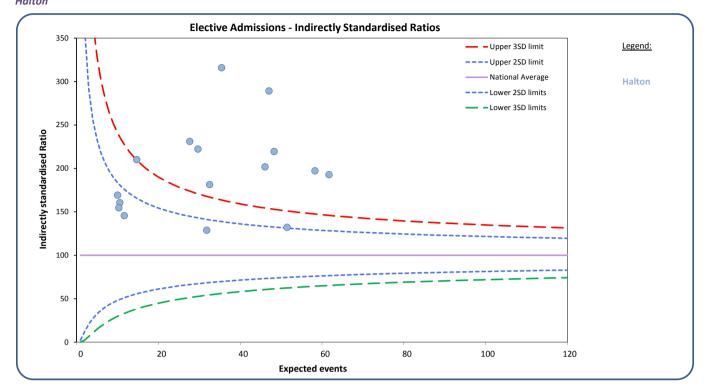
In contrast, all CCGs in the region, except Eastern Cheshire CCG, have very high rates of emergency admissions with 10 of the 12 CCGs in the highest quintile.

Clinical Commissioning Group (CCG) activity - GP practice level

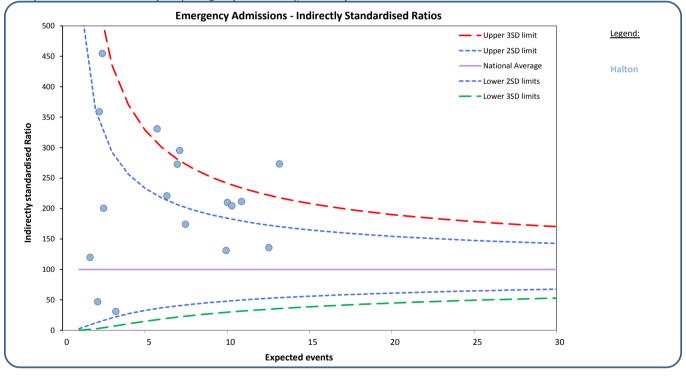
3. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

Each symbol represents one GP practice

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



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.

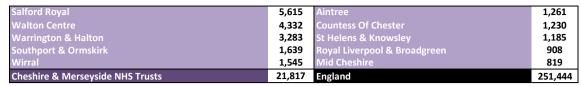
4. Indirectly Standardised Ratios for Elective & Emergency Admissions for Back & Radicular Pain, by GP Practice *Halton*

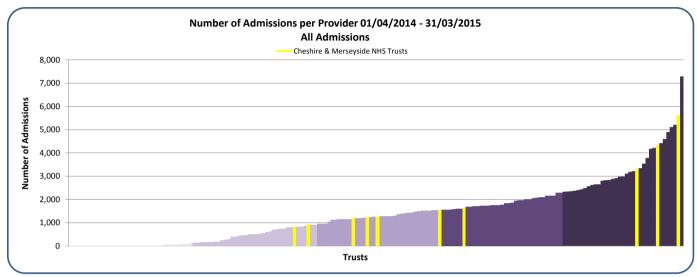
Indirectly Standardised Ratios that are coloured Red are higher than 3 standard deviations from the mean. Those coloured Yellow are between 2 and 3 higher standard deviations from the mean.

					Elective			Emergency	
Practice Code	Practice Name	CCG	Population 15+	Observed	Expected	Ratio	Observed	Expected	Ratio
N81011	Beaconsfield Surgery	01F	9,710	68	51.46	132.13	23	10.87	211.60
N81019	Castlefields Health Centre	01F	9,699	136	47.03	289.17	21	10.01	209.89
N81035	Appleton Village Surgery	01F	9,105	106	48.30	219.44	21	10.28	204.31
N81037	The Beeches Medical Ctr	01F	6,597	59	32.54	181.34	21	7.11	295.44
N81045	Peelhouse Medical Plaza	01F	11,800	119	61.70	192.87	36	13.17	273.33
N81054	Weaver Vale Practice	01F	7,340	112	35.46	315.83	13	7.46	174.29
N81057	Tower House Practice	01F	11,106	115	58.29	197.29	17	12.53	135.70
N81064	Newtown Surgery	01F	6,356	41	31.84	128.77	19	6.97	272.71
N81066	Grove House Practice	01F	8,931	93	46.08	201.80	13	9.93	130.94
N81072	Murdishaw	01F	5,632	64	27.69	231.16	19	5.74	330.76
N81096	Brookvale Practice	01F	6,362	66	29.69	222.27	14	6.33	221.08
N81119	Hough Green Health Park	01F	3,043	31	14.75	210.18	<6	3.23	30.98
N81618	Heath Road Medical Centre	01F	2,130	17	10.04	169.28	<6	2.13	46.91
N81619	Oaks Place Surgery	01F	2,454	17	10.59	160.47	11	2.42	454.82
N81625	West Bank Medical Centre	01F	2,085	16	10.35	154.57	8	2.23	358.96
N81651	Upton Rocks Primary Care	01F	2,410	17	11.67	145.64	<6	2.49	200.43
Y02512	Windmill Hill Medical Centre	01F	1,713	33	7.14	461.87	<6	1.67	119.87

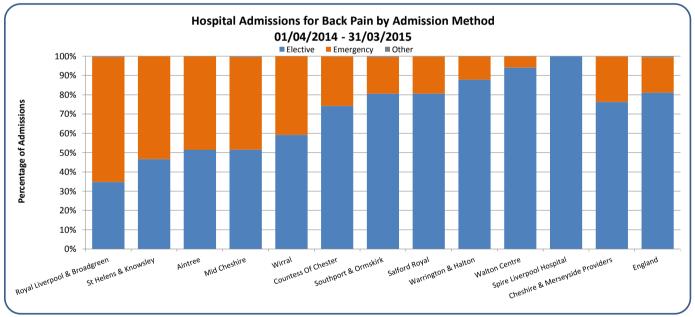
5. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

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





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.

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)

	Pain						
	Management &	Trauma &	Spinal Surgery	Interventional			
Provider Name	der Name Anaesthetics Orthopaedics S		Service	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?

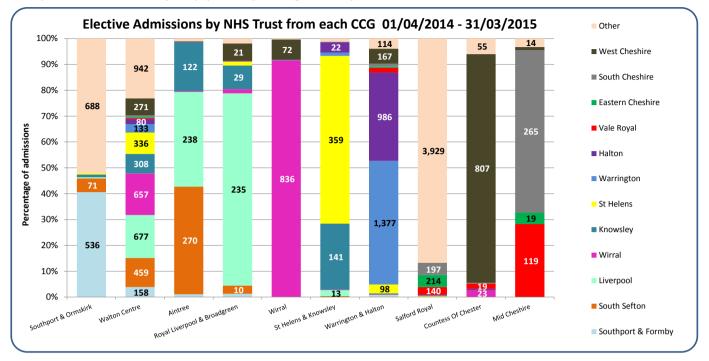
For elective activity the treatment specialty code indicated within the hospital data varies by hospital trust. Overall the most common specialties are Trauma and Orthopaedics and Pain Management/Anaesthetics. The Walton Centre records high Neurosurgery activity with no Trauma and Orthopaedic activity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

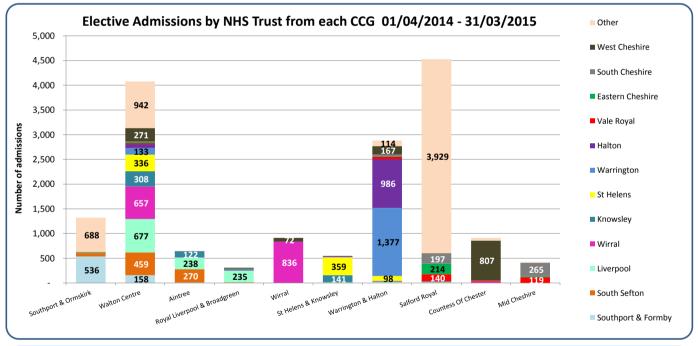
Hospital Trust activity from CCGs

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?

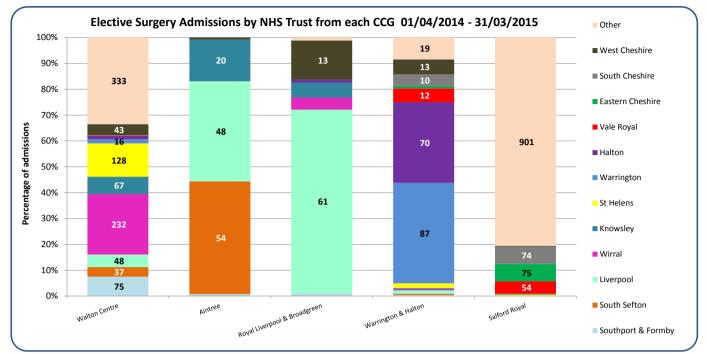
There is variation between hospital trusts in terms of the number of patients from each of the CCGs that are admitted for back and radicular pain.

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.

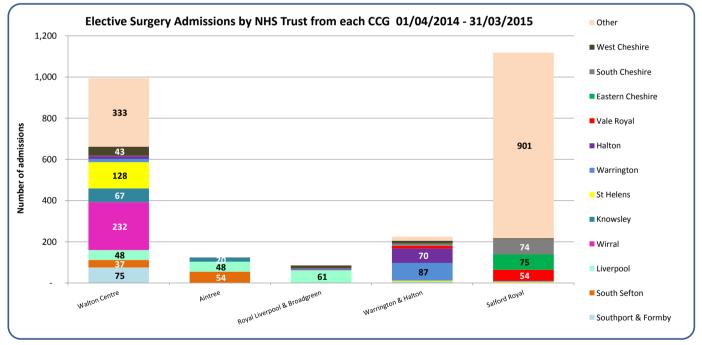
Hospital Trust activity from CCGs

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?

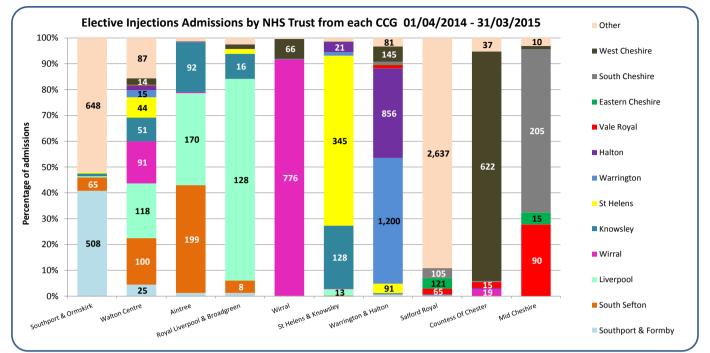
There is variation between hospital trusts in terms of the number of patients from each of the CCGs that are admitted for sur gery for back and radicular pain. In the Cheshire & Merseyside, the Walton Centre does the highest volume of spinal surgery.

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.

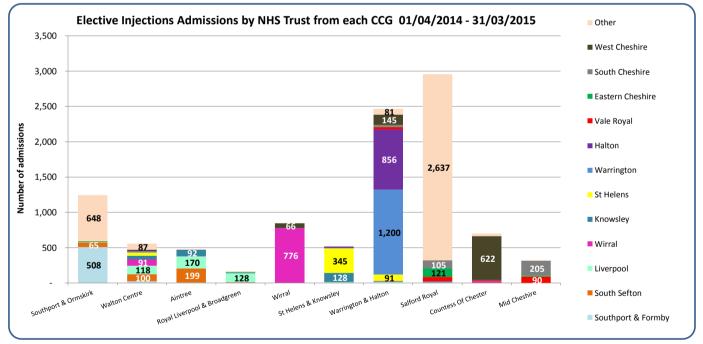
Hospital Trust activity from CCGs

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?

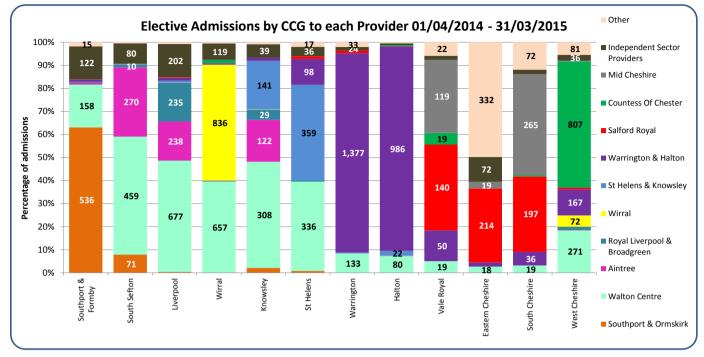
There is variation between hospital trusts in terms of the number of patients from each of the CCGs that are admitted for injections for back and radicular pain. Salford Royal and Warrington & Halton Trusts have considerably higher volumes of activity for injections.

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.

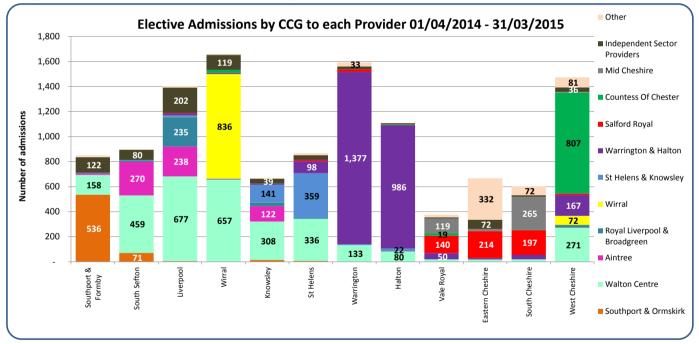
The data is shown in two ways, indicating both the proportion and number of admissions relating to each CCG.

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?

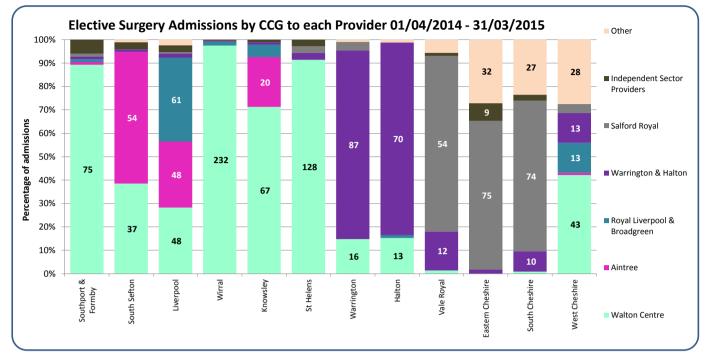
There is variation between CCGs in terms of the number of the number of hospital trusts that their patients are admitted to. West Cheshire CCG patients attend five of the NHS Trusts as well as using Independent Sector Providers in contrast Warrington and Halton CCGs that predominantly use Warrington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

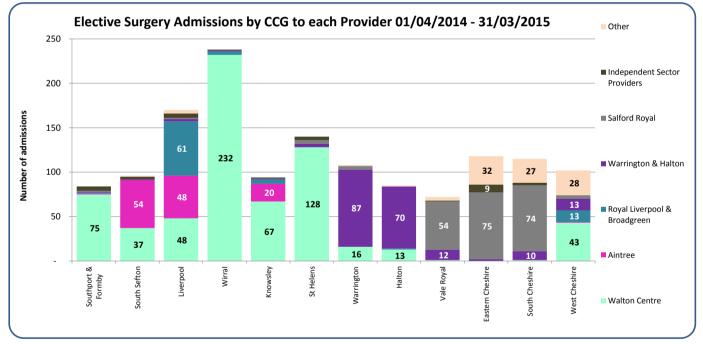
The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

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)



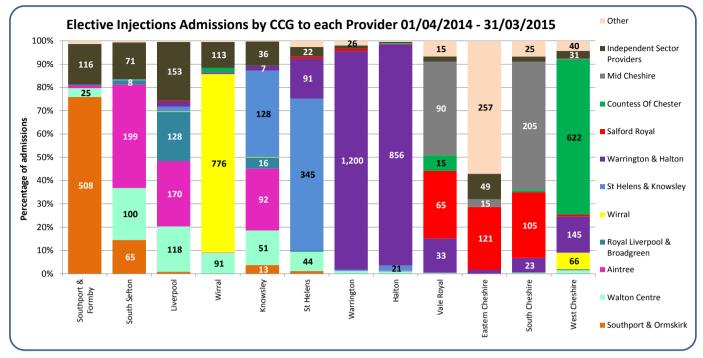
What is the data telling us?

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.

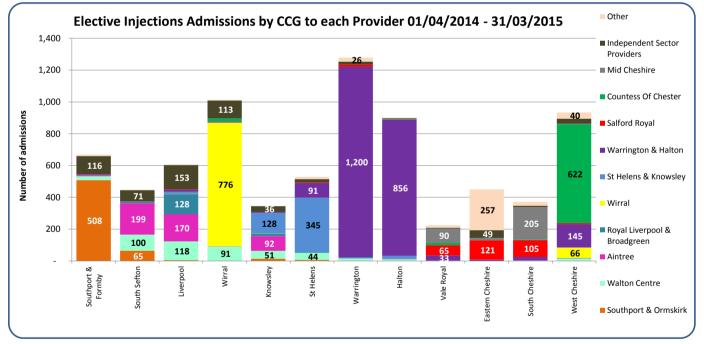
The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

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?

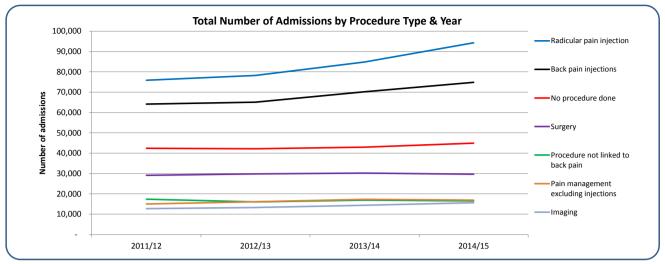
There is variation between CCGs in terms of the number of the number of hospital trusts that their patients are admitted for injections for back or radicular pain.

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.

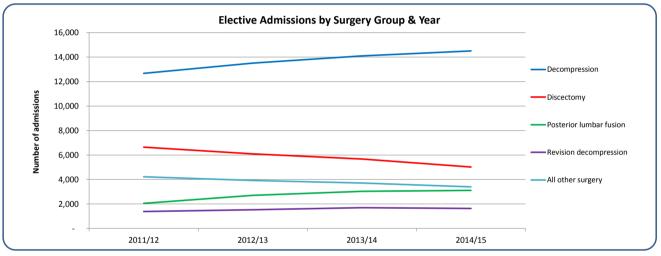
The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

Hospital Trust activity (national level)

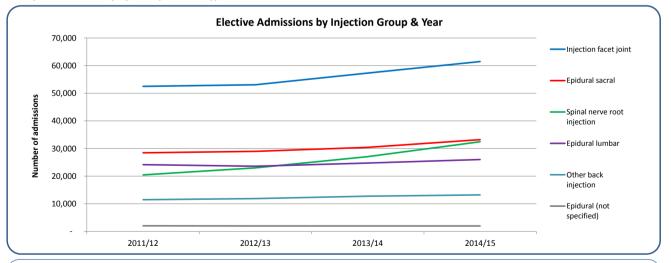
8. Hospital admissions for low back and radicular pain in people aged 16 years and over (1st April 2011 - 31st March 2015) a. Hospital admissions by procedure type over time (all admission types)



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.

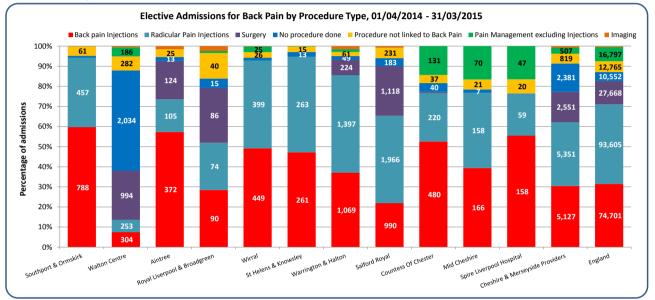
The main procedure type relating to elective admissions are for back and radicular pain injections which has increased from a combined total of just under 140,000 to 170,000 episodes over the four year period. This is in stark contrast to number of admissions related to surgery which has remained relatively 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.

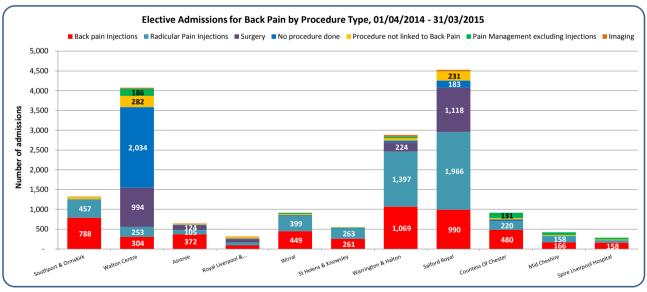
9. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015) a. Elective hospital admissions by procedure type (national level including all providers)

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)



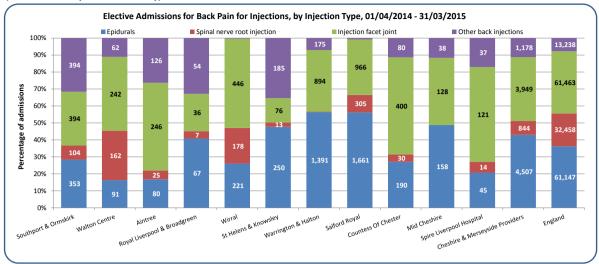
What is the data telling us?

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.

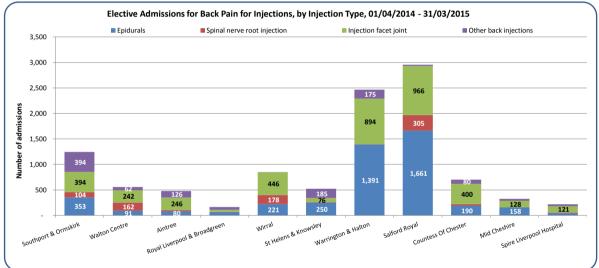
Seven of the Cheshire and Merseyside Trusts have a higher proportion of elective activity for injections than the England rate and it is possible that the variation is due to differences in the point of delivery of care across hospital Trusts (for example it is possible that activity may also take place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

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

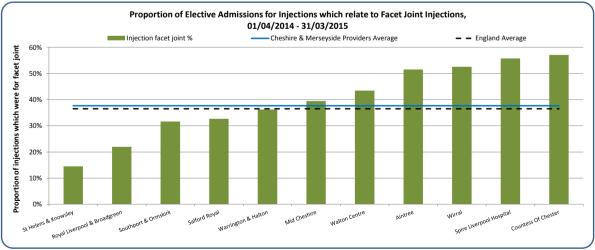
9. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015) d. Number of elective admissions for injections per hospital Trust, by injection type (percentage of activity) (Cheshire & Merseyside Providers only)



e. Number of elective admissions for injections per hospital Trust, by injection type (actual activity) (Cheshire & Merseyside Providers only)







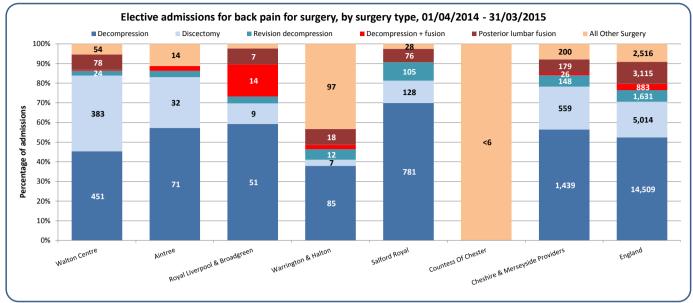
What is the data telling us?

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.

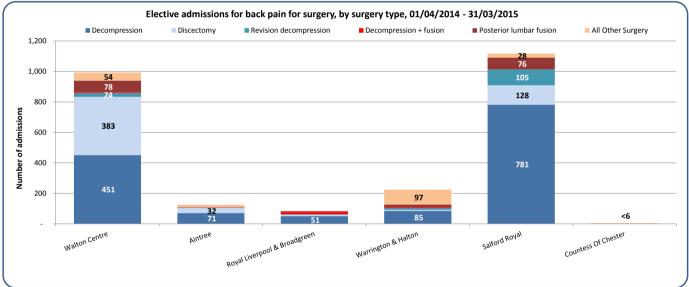
The data is shown in two ways, indicating both the proportion and amount of activity relating to each provider.

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

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)



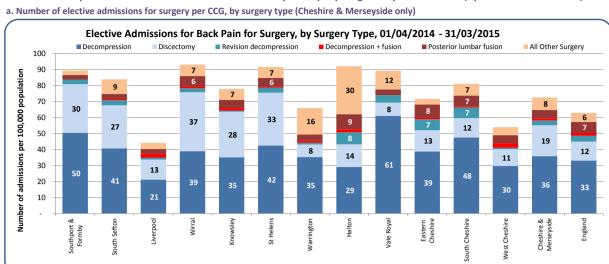
What is the data telling us?

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.

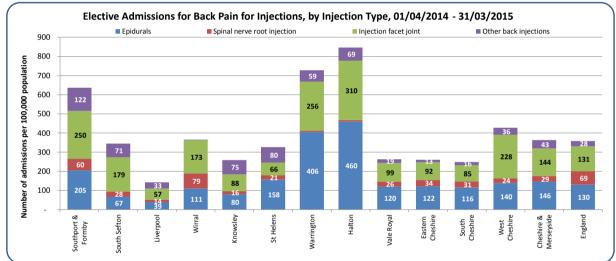
The data is shown in two ways, indicating both the proportion and amount of activity relating to each surgery type.

CCG activity by back pain procedure group

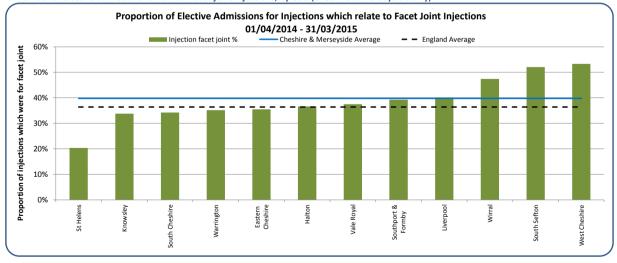


10. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015)

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







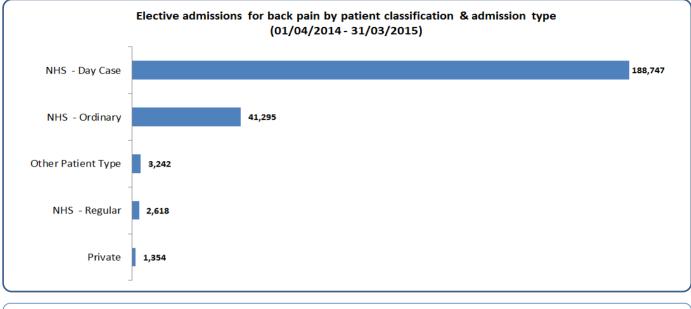
What is the data telling us?

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.

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

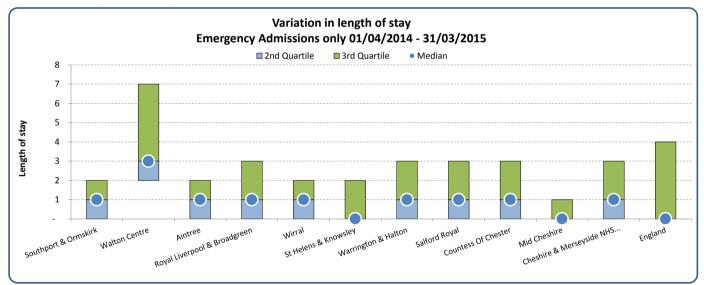


Other Patient Types are Amenity patients and Category II patients, and where the Administrative Category is unknown.

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	Ele	Elective		Emergency		Other		tal
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)

													Pain					
								Procedure not		ocedure not		Man	agement					
			Rad	icular pain	Bac	k pain	No	procedure	link	ed to back			exclu	uding	Other Non-			
Provider Name	Sur	gery	Inje	ctions	Inje	ctions	don	e	pair	n	Ima	ging	Injec	tions	Surgical		Tot	al
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.

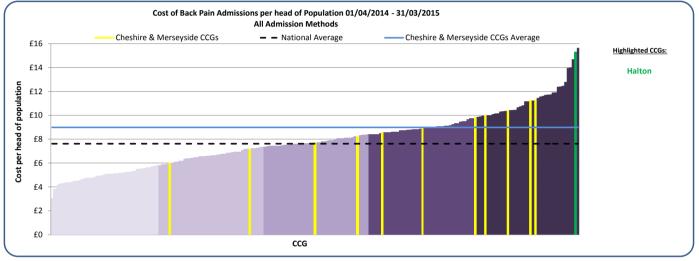
The surgery procedures group accounts for almost 43% of the total cost of all procedures, and the cost of injections is an additional 24% of the total.

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 Adn			sions	Elective A			dmissions		Emergency Admissions			
													Registered
	Cost p	oer head			Cos	t per head			Со	st per head			Population
Responsible CCG Name	of Pop	pulation	Tot	tal Cost	of F	Population	Tot	al Cost	of	Population	Tot	al Cost	(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

													Pair	1				
									Proc	edure not			Mar	nagement				
			Radio	ular pain	Back	pain	No pr	ocedure	linke	d to back			excl	uding	Other	r Non-		Total Cost
Responsible CCG Name	Sur	gery	Injec	tions	Injed	tions	done		pain		Imag	ing	Inje	ctions	Surgio	cal		
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 (\pounds 15.31) and has consistently high costs for both elective (\pounds 12.33) and emergency (\pounds 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 (\pounds 1.74), but very high costs for elective admissions \pounds 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.

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)

CodeProvider NameSurgeryInjectionsOtherRETTHE WALTON CENTRE NHS FOUNDATION TRUST6614702,004RWWWARRINGTON AND HALTON HOSPITALS NHS FOUNDATION TRUST2052,385179RBLWIRAL UNIVERSITY TEACHING HOSPITALS NHS FOUNDATION TRUST-84566RRMSTINELENS AND KONVSLEY HOSPITALS NHS TRUST12447147RBNSTILELENS AND KONVSLEY HOSPITALS NHS TRUST-51729RURCOUNTESS OF CHESTER HOSPITAL NHS FOUNDATION TRUST-66663190RQGROYAL LIVERPOOL AND BROADGREEN UNIVERSITY HOSPITALS NHS TRUST-59736RBTMID CHESHIRE HOSPITALS NHS FOUNDATION TRUST-131494RM3SALFORD ROYAL NHS FOUNDATION TRUST-21731962NT337<SPIRE LIVERPOOL HOSPITAL-2026161NVC16RENACRES HOSPITAL-2026114224<6RWUSALFORD ROYAL NHS FOUNDATION TRUST-117196413RNDSTOCKPORT NHS FOUNDATION TRUST<<66NT337<SPIRE LIVERPOOL HOSPITALNANCHESTER NHS FOUNDATION TRUST-11719<6RWUSTOCKPORT NHS FOUNDATION TRUST-11719<6613RUUVERSTY HOSPITAL OF SOUTH MANCHESTER NHS FOUNDATION TRUST-1166613RUUVERSTY HOSPITAL OF SOUTH MANCHESTER NHS FOUNDATION T	Emergency Admissions 178 377 625 582 624 263 577 8 372 57 - - 29 17 125 - - 29 17 125 - - 4 6 17 - - - - - - - - - - - - - - - - - -	Other Admission Types	Total 3,315 3,148 1,537 1,225 1,170 1,123 878 819 784 656 263 153 134 132 96 91 34 32 30 255 200 16 13 11 100 7 6 <6
RET THE WALTON CENTRE NHS FOUNDATION TRUST 661 470 2,004 RWW WARRINGTON AND HALTON HOSPITALS NHS FOUNDATION TRUST 205 2,385 179 RBL WIRRAL UNIVERSITY TEACHING HOSPITAL NHS FOUNDATION TRUST - 845 666 REM AINTREE UNIVERSITY HOSPITAL NHS FOUNDATION TRUST 124 471 47 RBN ST HELENS AND KNOWSLEY HOSPITAL NHS FOUNDATION TRUST - 517 29 RIR COUNTESS OF CHESTER HOSPITAL NHS FOUNDATION TRUST - 66 663 190 RQG ROVAL LUXERPOOL AND BROADGREEN UNIVERSITY HOSPITALS NHS TRUST - 597 36 RBT MID CHESHIRE HOSPITAL NHS FOUNDATION TRUST - 314 94 RM3 SALFORD ROVAL NHS FOUNDATION TRUST - 202 61 NY137 SPIRE LUVERPOOL HOSPITAL 14 224 <6 RW1 SILFORD ROVAL NHS FOUNDATION TRUST - 117 19 RM2 UNIVERSITY HOSPITAL OF SOUTH MANOR CHESTER NHS FOUNDATION TRUST - 126 6 RW2 <	178 377 625 582 624 263 564 186 372 57 - - - - - - - - - - - - - - - - - -	<pre><6 <6 <6 <6 <6 <6 <7 </pre> - <6 - <6 - <6 - 6 - 8 -	3,315 3,148 1,537 1,225 1,170 1,123 878 878 878 878 263 263 263 263 263 263 263 263 263 263
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RBN ST HELENS AND KNOWSLEY HOSPITALS NHS TRUST - 517 29 RJR COUNTESS OF CHESTER HOSPITAL NHS FOUNDATION TRUST 66 663 190 RQ6 ROYAL LIVERPOOL AND BROADGREEN UNIVERSITY HOSPITALS NHS TRUST 85 160 65 RWY SOUTHPORT AND ORMSKIRK HOSPITAL NHS FOUNDATION TRUST - 314 94 RM3 SALFORD ROYAL NHS FOUNDATION TRUST - 202 61 NVC16 RENACRES HOSPITAL 14 224 <6	624 263 564 186 372 57 - 29 17 125 - <6 17 - - <6 - - <6 - - <6 - - <6 - - <6 - - <6 - - <6 -	- <6 <6 - <6 - - - 6 - 8 8 - 8	1,170 1,123 878 819 784 656 263 243 226 153 134 132 96 91 34 32 30 25 20 16 13 111 10 7 7 7 6
RJR COUNTESS OF CHESTER HOSPITAL NHS FOUNDATION TRUST <6 663 190 RQ6 ROYAL LIVERPOOL AND BROADCREEN UNIVERSITY HOSPITALS NHS TRUST 85 160 65 RVY SOUTHPORT AND ORMSKIRK HOSPITAL NHS TRUST - 314 94 RM3 SALFORD ROYAL NHS FOUNDATION TRUST 217 319 62 NT337 SPIRE LIVERPOOL HOSPITAL - 202 61 NVC16 RENACRES HOSPITAL - 202 61 NVC16 RENACRES HOSPITAL - 202 61 RW1 STOCKPORT NHS FOUNDATION TRUST 29 142 20 RM2 UNIVERSITY HOSPITAL OF SOUTH MANCHESTER NHS FOUNDATION TRUST - 117 19 RIN EAST CHESHIRE NHS TRUST - - <66	263 564 186 372 57 - 29 17 125 - <6 17 - - 8 <6 - - - <6 - - - <6 - - - <6 - - - <6 - - - <6 - - - <6 - - - <6 - - - -	<6 - <6 - - - - - 8 - 8 - 8 - - - - - - - - -	1,123 878 819 784 656 263 243 226 153 134 132 96 91 34 32 30 25 20 16 13 111 10 7 7 7 6
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NVG01 FAIRFIELD HOSPITAL <6	-	-	
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Total 1,427 7,770 2,977	4,072	32	16,278

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CONFIDENTIALITY CHECKLIST – FOR	COMPLETION PRIOR TO ANY DRAFTS SENT TO CLIENTS
Does the report include any small numbers?	Yes
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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Has the recipient of the report signed the NDA?	