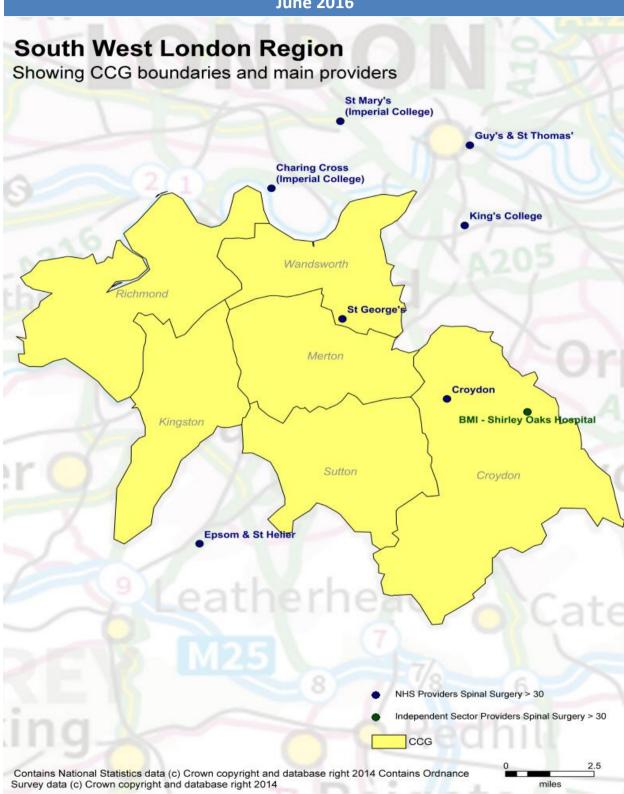


North East Quality Observatory Service

Back Pain Report

Kingston

June 2016



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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 South West London 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 South West London Region are:

- Imperial College Healthcare NHS Trust
- Guy's & St Thomas' NHS Foundation Trust
- Chelsea & Westminster Hospital NHS Foundation Trust
- · King's College Hospital NHS Foundation Trust
- St George's University Hospitals NHS Foundation Trust
- Kingston Hospital NHS Foundation Trust
- Croydon Health Services NHS Trust
- Epsom & St Helier University Hospitals NHS Trust

The Independent Sector Providers included for the South West London Region are:

• BMI - Shirley Oaks 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

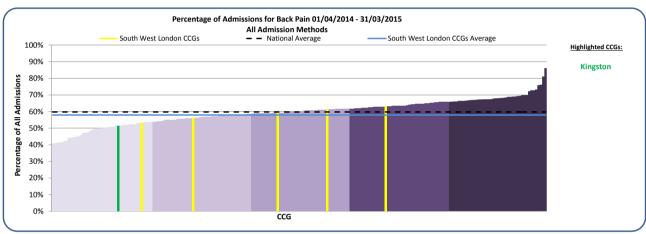
| England | Back | Radicular | Total | % Back | % Radicular |
|-----------|---------|-----------|---------|--------|-------------|
| Elective | 134,448 | 102,808 | 237,256 | 56.7% | 43.3% |
| Emergency | 39,331 | 14,309 | 53,640 | 73.3% | 26.7% |
| Other | 771 | 951 | 1,722 | 44.8% | 55.2% |
| Total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

| South West | | | | | |
|-------------|-------|-----------|-------|--------|-------------|
| London CCGs | Back | Radicular | Total | % Back | % Radicular |
| Elective | 2,823 | 2,441 | 5,264 | 53.6% | 46.4% |
| Emergency | 1,033 | 346 | 1,379 | 74.9% | 25.1% |
| Other | 4 | 20 | 24 | 16.7% | 83.3% |
| Total | 3,860 | 2,807 | 6,667 | 57.9% | 42.1% |

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)

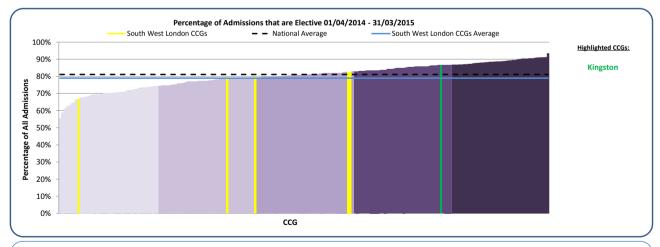
| Kingston | 51.3% | Merton | 59.2% |
|------------------------|-------|------------|-------|
| Croydon | 53.3% | Wandsworth | 61.4% |
| Richmond | 56.3% | Sutton | 63.1% |
| South West London CCGs | 57.9% | England | 59.8% |



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

| Croydon | 67.2% | Richmond | 82.7% |
|------------------------|-------|----------|-------|
| Merton | 78.7% | Sutton | 82.7% |
| Wandsworth | 79.3% | Kingston | 86.6% |
| South West London CCGs | 79.0% | England | 81.1% |



What is the data telling us?

In the 2014/15 financial year period there were almost 300,000 admissions for back and radicular pain in England, with 6,667 (2.3%) of these for patients registered within South West London 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 the South West London CCGs the proportion of admissions for back pain ranges from 51% to 63%.

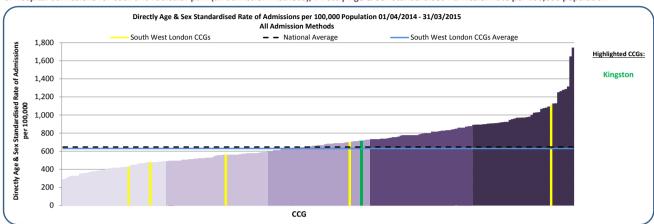
Nationally, approximately 81% of back and radicular pain admissions are elective, with the South West London CCGs having a slightly lower proportion (79%). At a CCG level in South West London, the proportion of elective admissions for these populations ranges from 67% in Croydon to 87% in Kingston.

Clinical Commissioning Group (CCG) activity

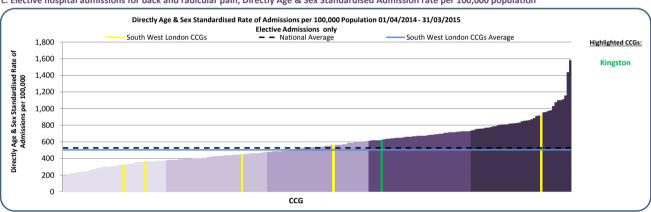
- 2. Hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 March 2015)
- a. Hospital admissions for back pain by CCG (all admission methods), Directly Age & Sex Standardised Admission rate per 100,000 population

| CCG name | All | Elective | Emergency | CCG name | All | Elective | Emergency |
|------------------------|--------|----------|-----------|------------|-------|----------|-----------|
| Sutton | 1107.5 | 919.9 | 186.2 | Wandsworth | 560.8 | 448.9 | 111.8 |
| Kingston | 719.3 | 624.7 | 88.9 | Croydon | 478.3 | 323.0 | 152.2 |
| Merton | 699.3 | 557.9 | 138.5 | Richmond | 429.6 | 362.5 | 65.3 |
| South West London CCGs | 630.0 | 502.8 | 124.7 | England | 645.6 | 526.5 | 115.4 |

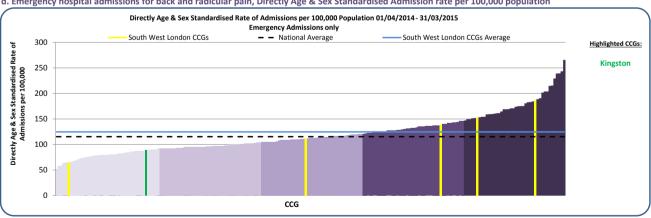
b. Hospital admissions for back and radicular pain (all admission methods), Directly Age & Sex Standardised Admission rate per 100,000 population



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?

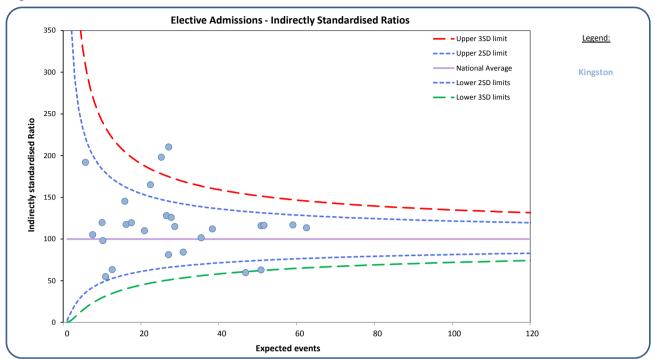
There is wide variation in elective admission rates across the CCGs within South West London with almost a 3-fold difference between the regional lowest (Croydon CCG) and the highest CCG for the region (Sutton CCG).

Similarly, for emergency admissions there is wide variation across the CCGs in the region, ranging from the regional lowest (Richmond CCG) to the highest in the region (Sutton CCG).

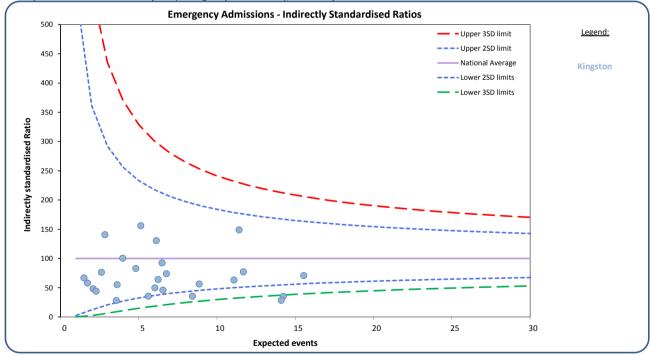
Clinical Commissioning Group (CCG) activity - GP practice level

- 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 $\it Kingston$







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.

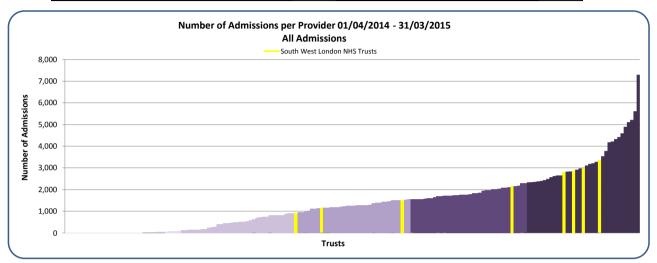
4. Indirectly Standardised Ratios for Elective & Emergency Admissions for Back & Radicular Pain, by GP Practice Kingston

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.

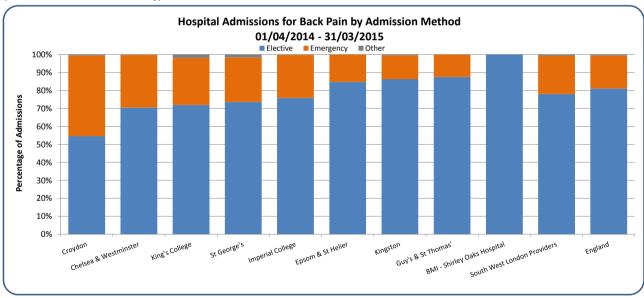
| | | | | | Elective | | | Emergency | |
|----------------------|----------------------------|-----|----------------|----------|----------|--------|----------|-----------|--------|
| Practice Code | Practice Name | CCG | Population 15+ | Observed | Expected | Ratio | Observed | Expected | Ratio |
| H84010 | Canbury Medical Centre | 08J | 7,843 | 43 | 38.34 | 112.16 | <6 | 8.44 | 35.54 |
| H84015 | Brunswick Surgery | 08J | 5,790 | 34 | 26.53 | 128.14 | <6 | 6.24 | 64.08 |
| H84016 | The Groves Medical Centre | 08J | 12,655 | 71 | 62.54 | 113.53 | <6 | 14.23 | 35.13 |
| H84020 | Fairhill Medical Practice | 08J | 18,552 | 32 | 50.87 | 62.91 | 11 | 15.55 | 70.75 |
| H84025 | Hook Surgery | 08J | 4,645 | 37 | 22.42 | 165.03 | 8 | 5.13 | 155.89 |
| H84027 | Churchill Medical Centre | 08J | 13,636 | 69 | 59.05 | 116.85 | <6 | 14.11 | 28.36 |
| H84030 | Central Surgery | 08J | 10,313 | 59 | 50.87 | 115.99 | 9 | 11.69 | 77.01 |
| H84033 | St Albans Medical Centre | 08J | 5,202 | 35 | 27.78 | 125.97 | <6 | 6.03 | 49.73 |
| H84034 | The Orchard Practice | 08J | 5,629 | 57 | 27.10 | 210.31 | 8 | 6.13 | 130.53 |
| H84042 | Holmwood Corner Surgery | 08J | 9,939 | 28 | 46.92 | 59.68 | 7 | 11.09 | 63.14 |
| H84049 | Maypole Surgery | 08J | 1,377 | 8 | 7.60 | 105.27 | <6 | 1.73 | 57.91 |
| H84050 | Chessington Park Surgery | 08J | 5,157 | 50 | 25.24 | 198.11 | <6 | 5.61 | 35.65 |
| H84051 | Roselawn | 08J | 4,582 | 23 | 20.91 | 110.00 | <6 | 4.82 | 82.98 |
| H84053 | Berrylands Surgery | 08J | 3,109 | 19 | 16.18 | 117.41 | <6 | 3.62 | 55.20 |
| H84054 | Red Lion Road Surgery | 08J | 2,424 | 6 | 10.92 | 54.96 | <6 | 2.62 | 76.31 |
| H84058 | Kingsdowne Surgery | 08J | 3,198 | 23 | 15.83 | 145.27 | <6 | 3.57 | 28.02 |
| H84061 | Kingston Health Centre | 08J | 6,508 | 22 | 27.06 | 81.29 | <6 | 6.55 | 45.80 |
| H84062 | Langley Medical Practice | 08J | 5,855 | 33 | 28.70 | 114.99 | 6 | 6.50 | 92.34 |
| H84618 | Sunray Surgery | 08J | 2,850 | 8 | 12.62 | 63.40 | <6 | 2.84 | 140.69 |
| H84619 | Claremont Medical Centre | 08J | 8,618 | 36 | 35.45 | 101.54 | <6 | 8.87 | 56.39 |
| H84629 | Village Surgery | 08J | 3,980 | 21 | 17.55 | 119.63 | <6 | 3.98 | 100.41 |
| H84635 | Manor Drive Medical Centre | 08J | 10,358 | 60 | 51.57 | 116.34 | 17 | 11.42 | 148.89 |
| H84637 | Gray's Medical Centre | 08J | 1,903 | 12 | 10.01 | 119.83 | <6 | 2.08 | 48.00 |
| H85055 | West Barnes Surgery | 08J | 6,260 | 26 | 30.87 | 84.23 | <6 | 6.77 | 73.84 |
| Y02379 | Tudor Drive Surgery | 08J | 2,077 | 10 | 10.19 | 98.09 | <6 | 2.28 | 43.89 |
| Y03054 | Gosbury Hill Gp Clinic | 08J | 1,609 | 11 | 5.73 | 191.92 | <6 | 1.50 | 66.60 |

- 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)

| Epsom & St Helier | 3,345 | St George's | 2,164 |
|------------------------------|--------|-----------------------|---------|
| Guy's & St Thomas' | 2,986 | Chelsea & Westminster | 1,518 |
| King's College | 2,883 | Kingston | 1,152 |
| Imperial College | 2,811 | Croydon | 915 |
| South West London NHS Trusts | 17,774 | England | 251,444 |



b. Number of admissions per hospital Trust, by admission method (South West London Providers only)



What is the data telling us?

The total number of admissions for back pain, rather than a rate, is presented due to the absence of a relevant denominator at hospital Trust level. Four of the eight NHS Trusts who admit patients from the South West London CCGs are in the highest quintile nationally and all of these Trusts are located outside of these CCGs.

The proportion of hospital activity for back pain which is classed as elective care for the South West London CCGs is slightly lower than the England proportion. However at NHS Trust level the proportion varies between 55% at Croydon Trust to 88% at Guy's & St Thomas' Trust. All NHS activity at the Independent Sector Provider 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

c. Elective admissions for back and radicular pain, by treatment specially (South West London Providers only)

| | Pain | | | | | | |
|-----------------------------|--------------|--------------|----------------|----------------|--------------|-----------------|--------|
| | Management & | Trauma & | Spinal Surgery | Interventional | | | |
| Provider Name | Anaesthetics | Orthopaedics | Service | Radiology | Neurosurgery | Other Functions | Total |
| Imperial College | 719 | 805 | - | - | 574 | 33 | 2,131 |
| Guy's & St Thomas' | 1,316 | 1,280 | - | - | - | 17 | 2,613 |
| Chelsea & Westminster | 908 | 144 | - | - | - | 18 | 1,070 |
| King's College | 1,492 | <6 | - | - | 545 | 34 | 2,071 |
| St George's | 789 | 108 | - | - | 603 | 94 | 1,594 |
| Kingston | 990 | - | - | - | - | <6 | 990 |
| Croydon | <6 | 488 | - | - | - | 10 | 498 |
| Epsom & St Helier | 1,944 | 881 | - | <6 | - | 8 | 2,833 |
| BMI - Shirley Oaks Hospital | 104 | 73 | - | - | 35 | <6 | 212 |
| Total | 8,262 | 3,779 | - | - | 1,757 | 214 | 14,012 |

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. However Imperial College, King's College and St George's Trusts each have over 500 admissions for Neurosurgery.

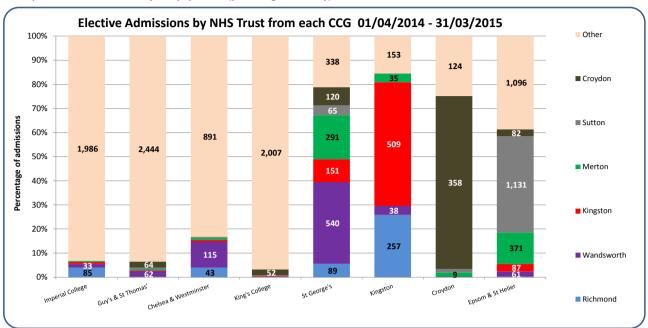
The second table shows the different types of injections being undertaken within each of the treatment function codes and demonstrates that nationally over 62% (104,751) of injections take place within Pain Management/Anaesthetics and 25% of injections are undertaken within Trauma and Orthopaedics.

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.

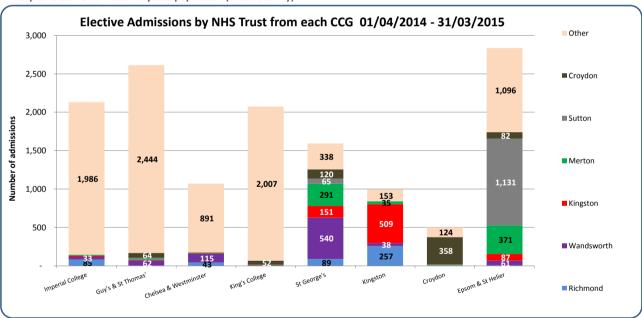
Hospital Trust activity from CCGs

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.

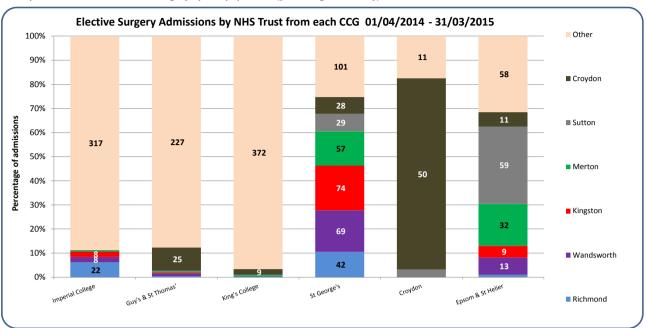
As most of the large volume providers are located outside of the South West London CCGs they admit patients from several different CCGs across the region and have high levels of activity coming from outside of the region. Epsom and St Helier Trust is the highest volume provider and admits patients from several of the South West London CCGs (mainly Sutton) as well as from CCGs outside of this region.

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

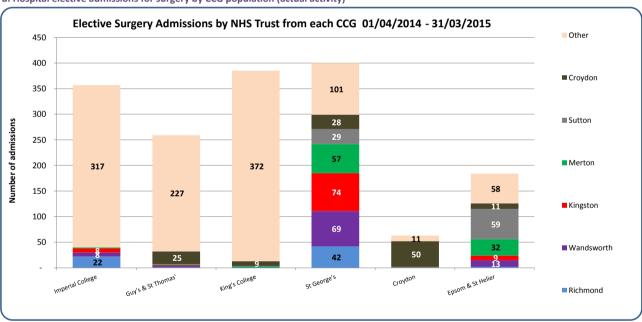
Hospital Trust activity from CCGs

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

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 spinal surgery for back and radicular pain.

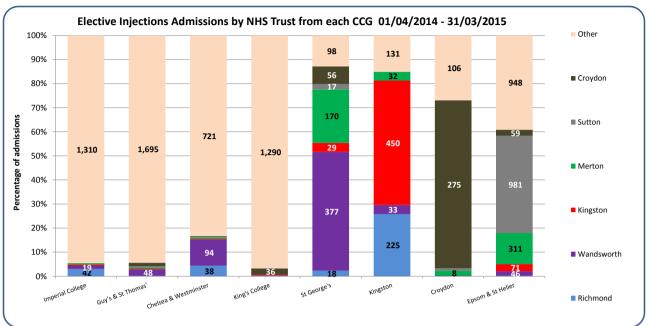
As most of the large volume providers are located outside of the South West London CCGs they admit patients from several different CCGs across the region and have high levels of activity coming from outside of the region. St George's Trust have the highest volume providers of spinal surgery and admit patients from all of the South West London CCGs as well as CCGs outside of this region.

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

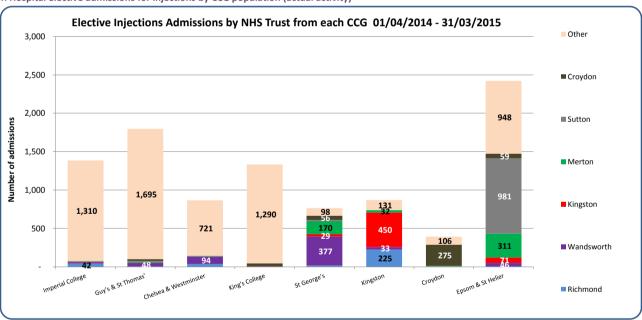
Hospital Trust activity from CCGs

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?

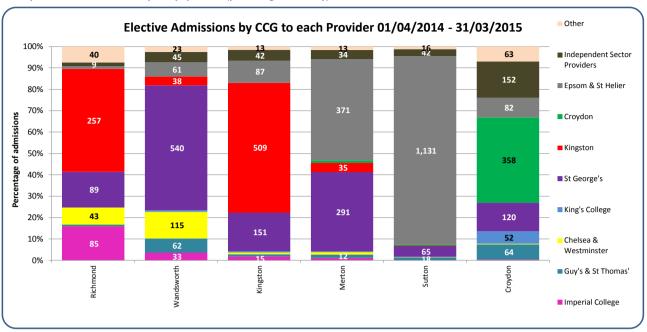
There is variation between hospital trusts in terms of the number of patients from each of the CCGs that are admitted for back and radicular pain.

As most of the large volume providers are located outside of the South West London CCGs they admit patients from several different CCGs across the region and also have high levels of activity coming from outside of the region. Epsom and St Helier Trust are the highest volume provider and admit patients from several of the South West London CCGs (mainly Sutton) as well as from CCGs outside of this region.

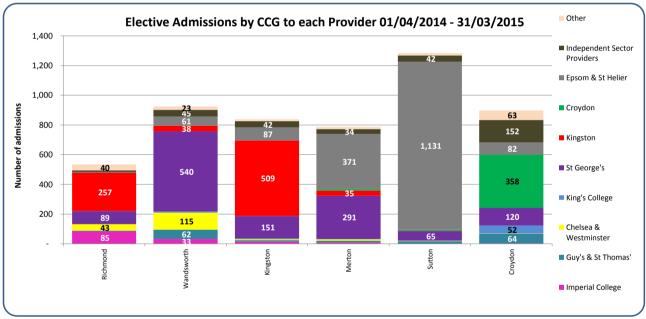
The data is shown in two ways, indicating both the proportion and number of admissions relating to each CCG.

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 hospital trusts to which their patients are admitted.

Activity is highest for Sutton CCG and patients from this CCG were admitted mainly to the Epsom & St Helier Trust and they also used St George's Trust and Independent Sector Providers.

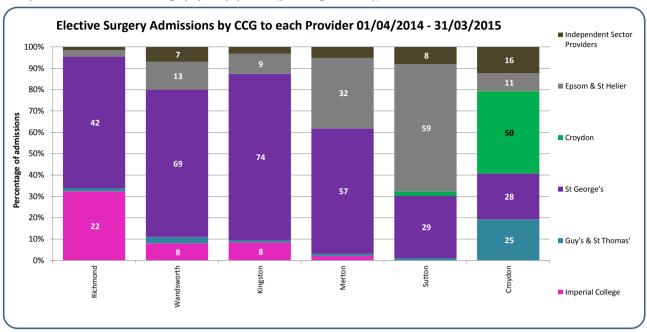
 ${\it Croydon~CCG~had~the~highest~proportion~of~admissions~to~Independent~Sector~Providers~in~South~West~London.}$

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

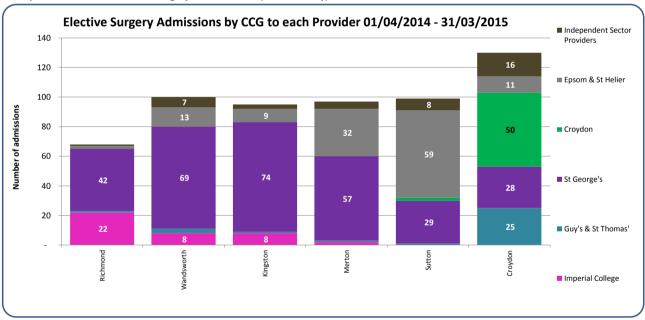
CCG activity to Hospital Trust

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 hospital trusts to which their patients are admitted for spinal surgery.

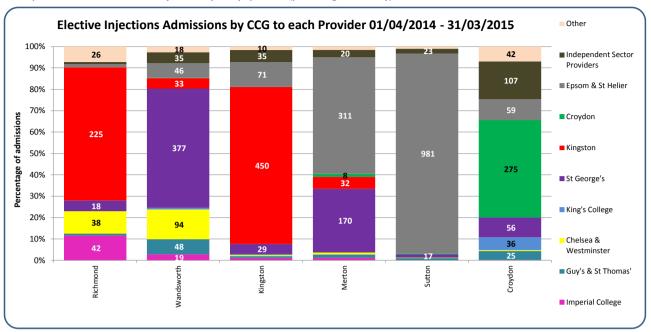
Activity is highest for Croydon CCG and patients from this CCG were admitted mainly to the Epsom & St Helier Trust and they also used St George's Trust, Guy's & St Thomas' Trust and Independent Sector Providers.

 $Sutton \ CCG \ had \ the \ highest \ proportion \ of \ admissions \ to \ Independent \ Sector \ Providers \ in \ South \ West \ London.$

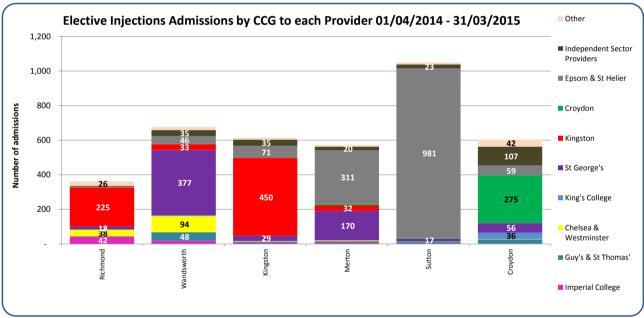
The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

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 hospital trusts to which their patients are admitted for injections.

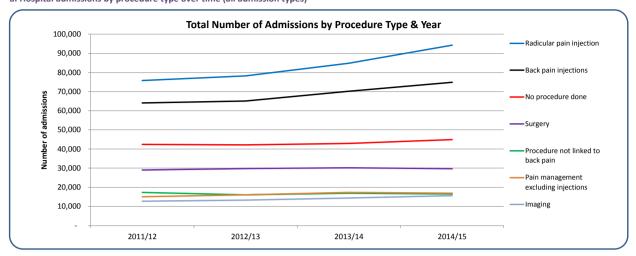
Activity is highest for Sutton CCG and patients from this CCG were admitted mainly to the Epsom & St Helier Trust .

 ${\it Croydon~CCG~had~the~highest~proportion~of~admissions~to~Independent~Sector~Providers~in~South~West~London.}$

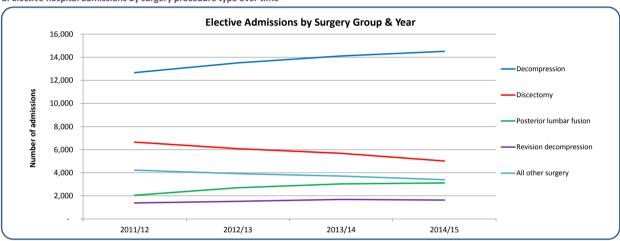
The data is shown in two ways, indicating both the proportion and amount of activity relating to each hospital trust.

Hospital Trust activity (national level)

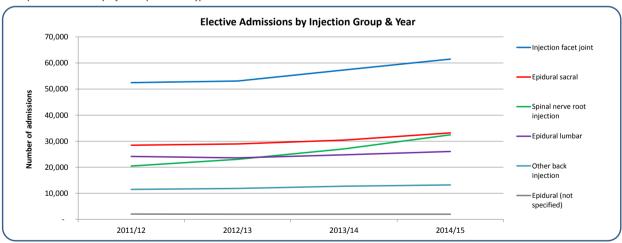
8. Hospital admissions for low back and radicular pain in people aged 16 years and over (1st April 2011 - 31st March 2015) a. Hospital admissions by procedure type over time (all admission types)



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.

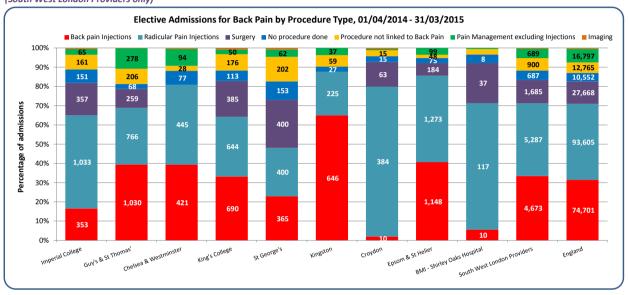
The charts in sections b and c show the elective admissions over time specifically for different groups of surgery procedures and injections.

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

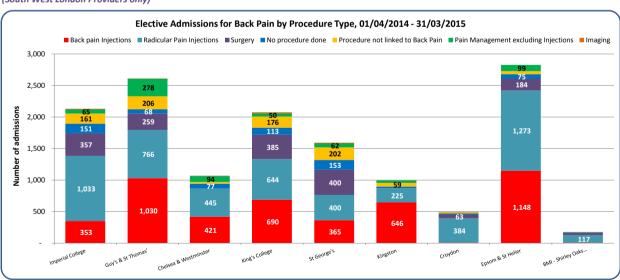
a. Elective hospital admissions by procedure type (national level including all providers)

| 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 | 11.79 |
| Pain Management excluding Injections | 13,150 | 3,647 | 16,797 | 7.19 |
| Procedure not linked to Back Pain | 8,197 | 4,568 | 12,765 | 5.49 |
| No procedure done | 6,060 | 4,492 | 10,552 | 4.49 |
| Imaging | 712 | 373 | 1,085 | 0.59 |
| Other Non-Surgical | 53 | 30 | 83 | 0.09 |
| Total | 134,448 | 102,808 | 237,256 | 1009 |

b. Number of elective admissions per hospital Trust, by procedure type (percentage of activity) (South West London Providers only)



c. Number of elective admissions per hospital Trust, by procedure type (actual activity) (South West London Providers only)



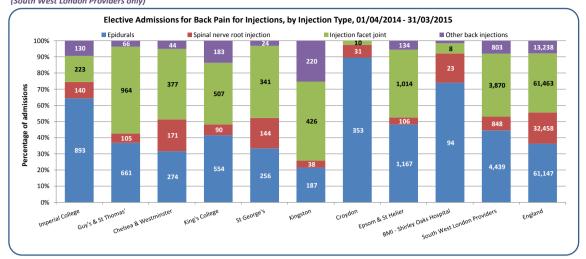
What is the data telling us?

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 indicating that there are relatively few elective admissions where no procedure is undertaken.

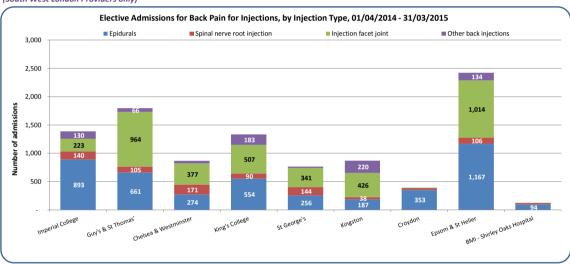
Four of the NHST Trust providers for the South West London CCGs have a higher proportion of elective activity for injections than the England rate (approx. 70%) and it is possible that the variation may be even greater due to differences in the point of delivery of care across hospital Trusts (for example 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.

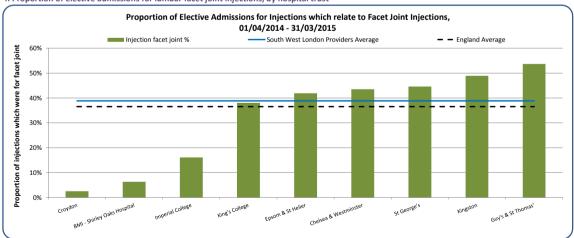
9. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015) d. Number of elective admissions for injections per hospital Trust, by injection type (percentage of activity) (South West London Providers only)



e. Number of elective admissions for injections per hospital Trust, by injection type (actual activity) (South West London Providers only)



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

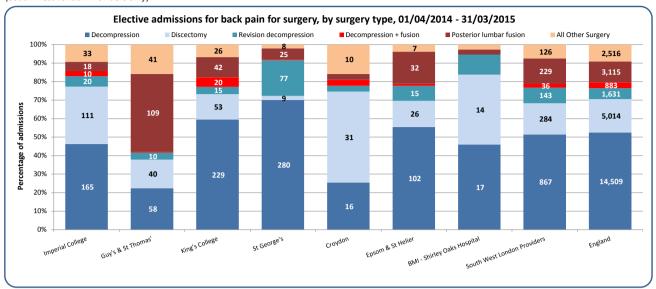


What is the data telling us?

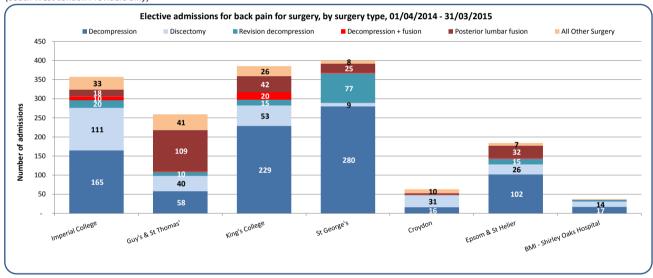
Epidurals are those most frequently done within the providers for the South West London CCGs, constituting almost 45% of injection activity which is higher than the England proportion (36%). These providers overall do half the proportion of spinal nerve injections and slightly higher proportions of lumbar facet joint injections. The data is shown in two ways, indicating both the proportion of overall activity and number of episodes for each Provider.

The proportion of facet joint injections done at Trust level ranges from 3% (Croydon Trust) to 54% (Guy's and St Thomas') 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) (South West London Providers only)



h. Number of elective admissions for surgery per hospital Trust, by surgery type (actual activity) (South West London Providers only)



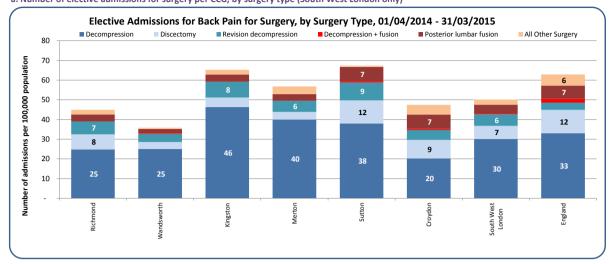
What is the data telling us?

The charts above show the range in activity relating specifically to elective admissions for surgery, by type of surgery, for the providers used by the South West London CCGs. These providers overall do a higher proportion of revision decompression surgery (most notably at St George's Trust) compared to the England profile. There are variations at Trust with the highest proportion of fusions at Guy's and St Thomas' Trust compared to St George's Trust where a lower proportion of fusions are undertaken and almost 90% of admissions are for decompressions including revisions.

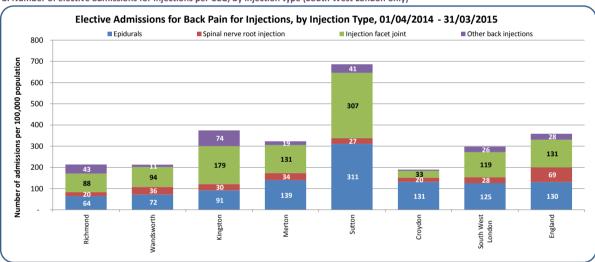
The data is shown in two ways, indicating both the proportion and amount of activity relating to each surgery type.

CCG activity by back pain procedure group

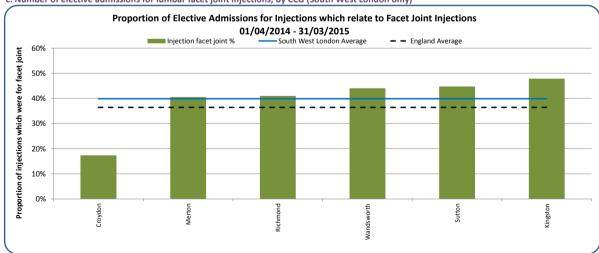
10. Elective hospital admissions for low back and radicular pain in people aged 16 years and over (April 2014 - March 2015) a. Number of elective admissions for surgery per CCG, by surgery type (South West London only)



b. Number of elective admissions for injections per CCG, by injection type (South West London only)



c. Number of elective admissions for lumbar facet joint injections, by CCG (South West London only)



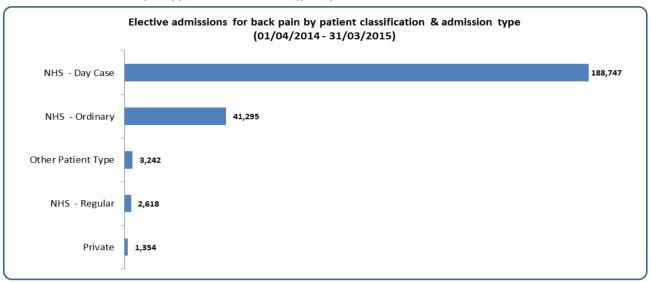
What is the data telling us?

Chart 9a shows the range in the activity rate relating specifically to elective admissions for surgery, by type of surgery, for the South West London CCGs, with chart 9b showing the same for injections.

Overall South West London CCGs have lower rates per 100,000 of both spinal surgery and injections compare to the England rates. Sutton and Kingston CCGs have the highest rates of surgery and Sutton CCG has the highest rates of injections.

The proportion of facet joint injections done at CCG level ranges from 17% (Croydon) to 48% (Kingston) compared to the England figure of 37%.

- 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

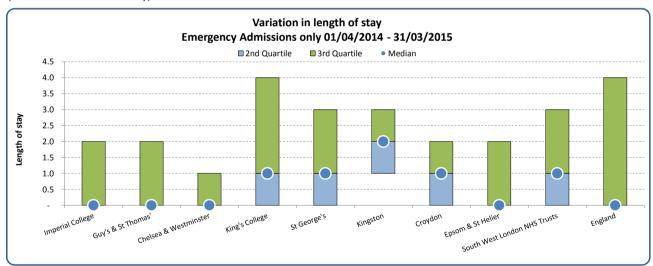


Other Patient Types are Amenity patients and Category II patients, and where the Administrative Category is unknown.

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 (South West London 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 the provider NHS Trusts used by the South West London CCGs

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 (South West London FTs only)

| Provider Name | Ele | ctive | Em | ergency | Othe | r | Tot | tal |
|-----------------------|-----|------------|----|-----------|------|---------|-----|------------|
| Guy's & St Thomas' | £ | 4,701,423 | £ | 449,541 | £ | 1,382 | £ | 5,152,346 |
| St George's | £ | 3,997,639 | £ | 907,983 | £ | 209,217 | £ | 5,114,840 |
| Imperial College | £ | 3,747,830 | £ | 1,095,372 | £ | 22,461 | £ | 4,865,663 |
| King's College | £ | 3,408,518 | £ | 1,194,895 | £ | 244,401 | £ | 4,847,814 |
| Epsom & St Helier | £ | 2,968,010 | £ | 538,108 | £ | 5,232 | £ | 3,511,351 |
| Chelsea & Westminster | £ | 823,065 | £ | 403,806 | £ | 6,476 | £ | 1,233,347 |
| Croydon | £ | 647,826 | £ | 437,264 | £ | 15,774 | £ | 1,100,864 |
| Kingston | £ | 735,047 | £ | 189,788 | £ | 8,752 | £ | 933,587 |
| Total | £ | 21,029,360 | £ | 5,216,758 | £ | 513,696 | £ | 26,759,813 |

b. Total Costs by Procedure Type (South West London FTs only)

| | | | | | | | | | | | | | Pair | 1 | | | | |
|-----------------------|-----|------------|------|-------------|------|-----------|-----|-------------|----------------|---------------|-----|-----------|------------|---------|------------|--------|-----|------------|
| | | | | | | | | Procedure r | | Procedure not | | | Management | | | | | |
| | | | Radi | icular pain | Bac | k pain | No | orocedure | linked to back | | | | excl | uding | Other Non- | | | |
| Provider Name | Sur | gery | Inje | ctions | Inje | ctions | don | e | pain | | Ima | ging | Inje | ctions | Surgical | | Tot | al |
| Guy's & St Thomas' | £ | 2,257,185 | £ | 639,495 | £ | 735,147 | £ | 218,804 | £ | 616,690 | £ | 137,178 | £ | 545,170 | £ | 2,678 | £ | 5,152,346 |
| St George's | £ | 2,637,507 | £ | 288,419 | £ | 248,471 | £ | 308,687 | £ | 1,433,911 | £ | 161,341 | £ | 36,503 | £ | - | £ | 5,114,840 |
| Imperial College | £ | 2,337,154 | £ | 881,463 | £ | 268,611 | £ | 403,745 | £ | 648,262 | £ | 275,720 | £ | 50,708 | £ | - | £ | 4,865,663 |
| King's College | £ | 2,231,446 | £ | 499,722 | £ | 552,298 | £ | 542,460 | £ | 620,704 | £ | 361,396 | £ | 39,788 | £ | - | £ | 4,847,814 |
| Epsom & St Helier | £ | 1,055,038 | £ | 998,417 | £ | 777,736 | £ | 425,165 | £ | 106,133 | £ | 80,653 | £ | 59,417 | £ | 8,792 | £ | 3,511,351 |
| Chelsea & Westminster | £ | - | £ | 352,948 | £ | 316,300 | £ | 291,081 | £ | 44,173 | £ | 106,438 | £ | 122,407 | £ | - | £ | 1,233,347 |
| Croydon | £ | 285,534 | £ | 320,599 | £ | 9,532 | £ | 326,220 | £ | 62,344 | £ | 89,700 | £ | 1,883 | £ | 5,052 | £ | 1,100,864 |
| Kingston | £ | - | £ | 178,272 | £ | 500,907 | £ | 117,512 | £ | 47,277 | £ | 67,124 | £ | 22,495 | £ | - | £ | 933,587 |
| Total | £ | 10,803,865 | £ | 4,159,334 | £ | 3,409,002 | £ | 2,633,674 | £ | 3,579,495 | £ | 1,279,550 | £ | 878,371 | £ | 16,522 | £ | 26,759,813 |

What is the data telling us?

Across provider NHS Trusts for the South West London CCGs in 2014/15 the total cost to commissioners for back and radicular pain admissions was approximately £26.8 million, with 79% of the costs attributed to elective activity. Note that these costs are by provider Trust and will include activity for CCGs outside of the South West London CCG region.

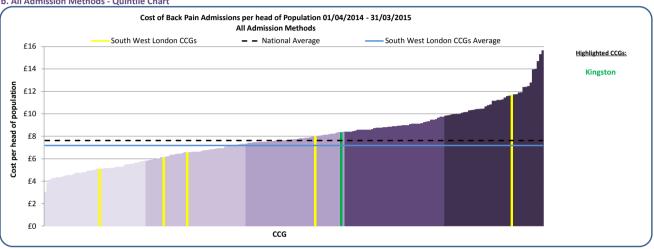
The surgery procedures group accounts for almost 40% of the total cost of all procedures, and the cost of injections is an additional 28% of the total.

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 Admissions | | | | | Elective Admissions | | | | Emergency | | | |
|-------------------------|----------------|----------|-------------------|-----------|---------------|---------------------|------------|-----------|---------------|------------|------------|-----------|------------|
| | | | | | | | | | | | | | Registered |
| | Cost | per head | | | Cos | t per head | | | Cos | t per head | | | Population |
| Responsible CCG Name | of Population | | Total Cost | | of Population | | Total Cost | | of Population | | Total Cost | | (Ages 15+) |
| Wandsworth | £ | 5.10 | £ | 1,623,300 | £ | 4.14 | £ | 1,317,592 | £ | 0.96 | £ | 304,757 | 318,559 |
| Richmond | £ | 6.11 | £ | 1,033,882 | £ | 5.13 | £ | 867,307 | £ | 0.91 | £ | 153,403 | 169,136 |
| Croydon | £ | 6.57 | £ | 2,104,980 | £ | 4.76 | £ | 1,522,872 | £ | 1.66 | £ | 530,318 | 320,233 |
| Merton | £ | 8.04 | £ | 1,430,053 | £ | 6.52 | £ | 1,159,181 | £ | 1.49 | £ | 264,184 | 177,804 |
| Kingston | £ | 8.37 | £ | 1,372,827 | £ | 7.06 | £ | 1,158,224 | £ | 1.18 | £ | 193,309 | 164,069 |
| Sutton | £ | 11.70 | £ | 1,789,930 | £ | 9.53 | £ | 1,457,376 | £ | 2.11 | £ | 322,731 | 152,962 |
| South West London Total | £ | 7.18 | £ | 9,354,972 | £ | 5.74 | £ | 7,482,552 | £ | 1.36 | £ | 1,768,701 | 1,302,763 |

b. All Admission Methods - Quintile Chart



c. Elective Admissions only, by Procedure Type

| | | | Radio | cular pain | Bacl | k pain | No pro | | | edure not d to back | | | Pain Mana exclu | agement ding | Othe | er Non- | Т | otal Cost |
|----------------------|-------|---------|--------|------------|------|---------|--------|--------|------|------------------------|---------|-------|-----------------------|-----------------|------|---------|---|-----------|
| Responsible CCG Name | Surge | ery | Inject | tions | Inje | ctions | done | | pain | | Imaging | | Inject | tions | Surg | ical | | |
| Croydon | £ | 817,136 | £ | 384,472 | £ | 83,027 | £ | 19,914 | £ | 174,464 | £ | 6,050 | £ | 23,919 | £ | 13,891 | £ | 1,522,872 |
| Sutton | £ | 544,959 | £ | 404,042 | £ | 354,183 | £ | - | £ | 102,220 | £ | - | £ | 42,051 | £ | 9,922 | £ | 1,457,376 |
| Wandsworth | £ | 561,706 | £ | 251,419 | £ | 229,051 | £ | 6,203 | £ | 233,507 | £ | 1,824 | £ | 33,883 | £ | - | £ | 1,317,592 |
| Merton | £ | 576,081 | £ | 229,888 | £ | 175,360 | £ | 4,736 | £ | 135,316 | £ | 976 | £ | 32,218 | £ | 4,606 | £ | 1,159,181 |
| Kingston | £ | 513,739 | £ | 153,664 | £ | 306,371 | £ | 824 | £ | 150,950 | £ | 2,779 | £ | 29,898 | £ | - | £ | 1,158,224 |
| Richmond | £ | 422,631 | £ | 109,773 | £ | 166,916 | £ | 4,774 | £ | 130,211 | £ | 3,891 | £ | 29,112 | £ | - | £ | 867,307 |

What is the data telling us?

There is wide variation across the CCGs in South West London in cost per head of population for admissions related to back and radicular pain. Sutton CCG has the highest spend per head of population regionally (£11.70) and is in the highest quintile nationally. Wandsworth CCG has the lowest costs per head for both emergency and elective admissions (£5.10) in the region as well as being the lowest quintile nationally.

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 spend, but for Sutton CCG more is spent on admissions for injections compared to what is spent

14. Back & Radicular Pain Admissions Breakdown for the South West London Region

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

| | | Elec | tive Admissio | ons | Emergency | Other Admission | | |
|----------------|---|---------|---------------|------------|------------|-----------------|----------|--|
| Code | Provider Name | Surgery | Injections | Other | Admissions | Types | Total | |
| RVR | EPSOM AND ST HELIER UNIVERSITY HOSPITALS NHS TRUST | 126 | 1,473 | 140 | 329 | <6 | 2,069 | |
| RJ7 | ST GEORGE'S UNIVERSITY HOSPITALS NHS FOUNDATION TRUST | 299 | 667 | 290 | 381 | 14 | 1,651 | |
| RAX | KINGSTON HOSPITAL NHS FOUNDATION TRUST | - | 740 | 101 | 127 | <6 | 973 | |
| RJ6 | CROYDON HEALTH SERVICES NHS TRUST | 52 | 288 | 35 | 340 | <6 | 718 | |
| RQM | CHELSEA AND WESTMINSTER HOSPITAL NHS FOUNDATION TRUST | - | 145 | 34 | 65 | - | 244 | |
| RJ1 | GUY'S AND ST THOMAS' NHS FOUNDATION TRUST | 32 | 101 | 36 | 18 | _ | 187 | |
| RYJ | IMPERIAL COLLEGE HEALTHCARE NHS TRUST | 40 | 76 | 29 | 33 | _ | 178 | |
| NT436 | BMI - SHIRLEY OAKS HOSPITAL | 17 | 96 | 32 | | _ | 145 | |
| RJZ | KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST | 13 | 44 | 11 | 43 | _ | 111 | |
| NVC01 | ASHTEAD HOSPITAL | 9 | 49 | <6 | - | - | 63 | |
| RRV | UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST | 6 | 37 | 16 | <6 | _ | 61 | |
| | ASPEN - PARKSIDE HOSPITAL | 10 | 40 | <6 | | | 54 | |
| RAN | ROYAL NATIONAL ORTHOPAEDIC HOSPITAL NHS TRUST | <6 | 13 | 7 | | _ | 24 | |
| RTK | ASHFORD AND ST PETER'S HOSPITALS NHS FOUNDATION TRUST | \ | 16 | , <6 | <6 | _ | 23 | |
| NVC11 | NORTH DOWNS HOSPITAL | <6 | 18 | \ 0 | \ 0 | • | 19 | |
| RTP | SURREY AND SUSSEX HEALTHCARE NHS TRUST | - | <6 | - <6 | 10 | • | 18 | |
| | | <6 | <0 | | 10 | - | | |
| NT431 NT422 | BMI - THE RUNNYMEDE HOSPITAL BMI - THE LONDON INDEPENDENT HOSPITAL | | - 11 | 17 | - | _ | 17 15 | |
| | | <6 | 11 | <6 | - | - | | |
| R1H | BARTS HEALTH NHS TRUST | <6 | 9 | - | <6 | - | 14 | |
| RJ2 | LEWISHAM AND GREENWICH NHS TRUST | - | 10 | | - | - | 10 | |
| RAL | ROYAL FREE LONDON NHS FOUNDATION TRUST | - | 6 | <6 | <6 | - | 9 | |
| RDU | FRIMLEY HEALTH NHS FOUNDATION TRUST | <6 | <6 | - | <6 | - | 7 | |
| RCB | YORK TEACHING HOSPITAL NHS FOUNDATION TRUST | | | | <6 | <6 | <6 | |
| RA2 | ROYAL SURREY COUNTY HOSPITAL NHS FOUNDATION TRUST | - | <6 | <6 | - | - | <6 | |
| RHM | UNIVERSITY HOSPITAL SOUTHAMPTON NHS FOUNDATION TRUST | | | | <6 | - | <6 | |
| RKE | THE WHITTINGTON HOSPITAL NHS TRUST | <6 | <6 | - | <6 | - | <6 | |
| RL1 | THE ROBERT JONES AND AGNES HUNT ORTHOPAEDIC HOSPITAL NHS FOUNDATION TRUST | - | <6 | - | - | - | <6 | |
| RXH | BRIGHTON AND SUSSEX UNIVERSITY HOSPITALS NHS TRUST | - | <6 | <6 | <6 | - | <6 | |
| NT437 | BMI - THE SLOANE HOSPITAL | - | <6 | - | - | - | <6 | |
| NWF01 | BENENDEN HOSPITAL | - | <6 | - | - | - | <6 | |
| RF4 | BARKING, HAVERING AND REDBRIDGE UNIVERSITY HOSPITALS NHS TRUST | - | <6 | - | <6 | - | <6 | |
| RN7 | DARTFORD AND GRAVESHAM NHS TRUST | - | - | <6 | - | - | <6 | |
| RPY | THE ROYAL MARSDEN NHS FOUNDATION TRUST | - | - | <6 | - | - | <6 | |
| RQX | HOMERTON UNIVERSITY HOSPITAL NHS FOUNDATION TRUST | - | <6 | - | - | - | <6 | |
| RVV | EAST KENT HOSPITALS UNIVERSITY NHS FOUNDATION TRUST | - | <6 | - | <6 | - | <6 | |
| RWH | EAST AND NORTH HERTFORDSHIRE NHS TRUST | | | | <6 | - | <6 | |
| NT345 | SPIRE CLARE PARK HOSPITAL | - | <6 | - | - | - | <6 | |
| NXM01 | THE HORDER CENTRE - ST JOHNS ROAD | - | <6 | - | | _ | <6 | |
| R1K | LONDON NORTH WEST HEALTHCARE NHS TRUST | | | | <6 | _ | <6 | |
| RAS | THE HILLINGDON HOSPITALS NHS FOUNDATION TRUST | | | | <6 | _ | <6 | |
| RBA | TAUNTON AND SOMERSET NHS FOUNDATION TRUST | | | | <6 | _ | <6 | |
| RBD | DORSET COUNTY HOSPITAL NHS FOUNDATION TRUST | | | | <6 | _ | <6 | |
| RCD | HARROGATE AND DISTRICT NHS FOUNDATION TRUST | | <6 | | | | <6 | |
| RDZ | THE ROYAL BOURNEMOUTH AND CHRISTCHURCH HOSPITALS NHS FOUNDATION TRUST | | | | <6 | | <6 | |
| RGT | CAMBRIDGE UNIVERSITY HOSPITALS NHS FOUNDATION TRUST | | | | <6 | | <6 | |
| RH8 | ROYAL DEVON AND EXETER NHS FOUNDATION TRUST | 1 | | | <6 | | <6 | |
| RNZ | SALISBURY NHS FOUNDATION TRUST | | <6 | _ | \0 | _ | <6 | |
| RTH | OXFORD UNIVERSITY HOSPITALS NHS TRUST | 1 | \ 0 | - | - <6 | _ | <6 | |
| | | 1 | | | <6 | _ | | |
| RVJ | NORTH BRISTOL NHS TRUST | - | <6 | - | - | - | <6 | |
| RWA | HULL AND EAST YORKSHIRE HOSPITALS NHS TRUST | - | <6 | - | | - | <6 | |
| RX1 | NOTTINGHAM UNIVERSITY HOSPITALS NHS TRUST | 1 | | | <6 | - | <6 | |
| RXK | SANDWELL AND WEST BIRMINGHAM HOSPITALS NHS TRUST | I | | | <6 | - | <6 | |
| RYR | WESTERN SUSSEX HOSPITALS NHS FOUNDATION TRUST | - | <6 | - | - | - | <6 | |
| NT315 | SPIRE BUSHEY HOSPITAL | <6 | - | - | - | - | <6 | |
| otal | | 617 | 3.874 | 773 | 1,379 | 24 | 6,667 | |

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| 0.1 | First Draft | 10/03/2016 | | Adam Fearing, | | | | |
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| 0.2 | Draft V2 | 15/03/2016 | Amendments & Final QA | Adam Fearing, | | | | |
| 0.2 | Diait V2 | | Amenaments & Final &A | Kayoung Goffe | | | | |
| 0.3 | Draft V3 | 15/04/2016 | Further minor amendments | Adam Fearing, | | | | |
| 0.3 | Diait vs | | Tuttler minor amendments | Kayoung Goffe | | | | |
| 0.4 | Draft V4 | 03/05/2016 | Further minor amendments | Adam Fearing | | | | |
| 0.5 | Draft V5 | 11/05/2016 | Further minor amendments | Adam Fearing | | | | |
| 0.6 | Draft V6 | 27/06/2016 | Narrative & formatting | Liz Lingard | | | | |

| 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 | |
| Have Lightfoot/HSCIC approved use of NDA in order to disclose small numbers? | |
| Has the recipient of the report signed the NDA? | |