



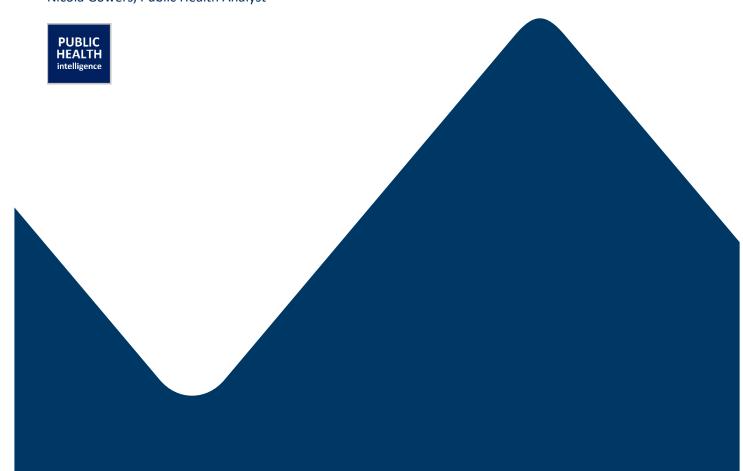


Respiratory Diseases Profile

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CONTENTS

| CONTENTS | 2 |
|--|----|
| Introduction | 3 |
| Prevalence and trends | 4 |
| Chronic obstructive pulmonary disease (COPD) | 4 |
| Asthma | 7 |
| Nearest Neighbours | 10 |
| Risk factors | 12 |
| Age | 12 |
| Smoking | 12 |
| Air pollution | 15 |
| Occupational exposures | 16 |
| Deprivation | 16 |
| Prevention | 19 |
| Primary care | 19 |
| Smoking Cessation | 19 |
| Early intervention and monitoring | 20 |
| Flu vaccinations | 22 |
| Secondary care (hospital admissions) | 24 |
| RightCare Pathway: COPD | 32 |
| NHS Rightcare Commissioning for value – Respiratory (April 2016) | 33 |
| Additional data sources | 34 |
| Mortality | 35 |
| Deaths from Respiratory Disease | 35 |
| Deaths from COPD | 39 |

Introduction

This Respiratory disease profile has been requested by the Cambridgeshire and Peterborough Clinical Commissioning Group (C&P CCG) in order that key data for respiratory diseases can all be found in one place. Respiratory disease is one of the main causes of death for Cambridgeshire and Peterborough residents, accounting for 2,825 deaths in 2015-17 (13% of all C&P CCG deaths)¹.

Chronic respiratory diseases are diseases of the airways and other structures of the lung. Some of the most common are chronic obstructive pulmonary disease (COPD), asthma, occupational lung diseases and pulmonary hypertension². This respiratory diseases profile primarily focuses on COPD and asthma, as these are two key causes of morbidity and mortality in C&P CCG, as well as nationally.

COPD is estimated to affect around 1.1 million people in England (all ages), around 1.9% of the population. The same data source estimates prevalence in Cambridgeshire and Peterborough CCG to be 1.7% of the population. This is just over 16,500 people³.

Asthma is estimated to affect almost 3.5 million people in England (all ages), around 5.9% of the population. The same data source estimates prevalence in Cambridgeshire and Peterborough CCG to be 6.0% of the population. This is just under 58,000 people⁴.

Tobacco smoke is a widely documented risk factor for respiratory diseases. Other risk factors include air pollution, occupational chemicals and dusts, and frequent lower respiratory infections during childhood. Although respiratory diseases are not curable, several forms of treatment that help dilate major air passages and improve shortness of breath can help control symptoms and increase the quality of life for people with the disease⁵.

Chronic Obstructive Pulmonary Disease (COPD)

COPD is a group of lung conditions including bronchitis and emphysema which affect breathing. It usually develops because of long-term lung damage, often from tobacco smoking, and predominantly affects people aged over 35 years (NHS, BLF).

Asthma

Asthma is a common chronic lung disease characterised by recurrent attacks of breathlessness and wheezing, which vary in severity and frequency person to person. Asthma affects people of all ages, but it often starts in childhood. Asthma is under-diagnosed and under-treated (NHS, WHO).

NHS - Overview COPD

https://www.nhs.uk/conditions/chronic-obstructive-pulmonary-disease-copd/

NHS - Overview asthma

https://www.nhs.uk/conditions/asthma/

British Lung Foundation - COPD (chronic obstructive pulmonary disease)

www.blf.org.uk

WHO - Chronic respiratory diseases - Asthma https://www.who.int/respiratory/asthma/en/

¹ Cambridgeshire County Council Public Health Intelligence (NHS Digital Primary Care Mortality Database.

² WHO, Chronic respiratory diseases http://www.who.int/respiratory/en/

³ Quality and Outcomes Framework (QOF), NHS digital 2017/18

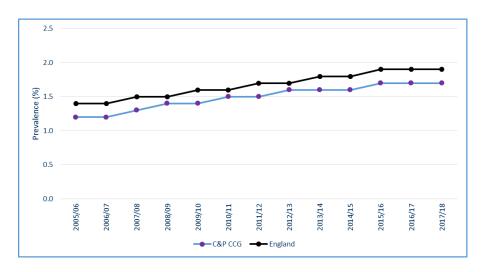
⁴ Quality and Outcomes Framework (QOF), NHS digital 2017/18

⁵ WHO, Chronic respiratory diseases http://www.who.int/respiratory/en/

Prevalence and trends

Chronic obstructive pulmonary disease (COPD)

GP recorded prevalence of COPD 2005/06 - 2017/18, Cambridgeshire and Peterborough CCG



Notes: COPD defined as patients on the practice register with chronic obstructive pulmonary disease (COPD) QOF prevalence data is GP recorded and not age standardised.

'Blue-Orange-blue' colour scheme used as this indicator is assessed as higher/lower than the benchmark, rather than better/worse as per the alternative 'Red-Amber-Green' rating.



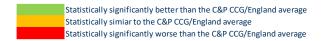
Source: Quality and Outcomes Framework (QOF), NHS digital

- COPD prevalence has steadily increased for C&P CCG, and England, between 2005/06 and 2015/16, but the last two years have seen more stability.
- In 2005/06 prevalence of COPD was 1.2% for C&P CCG. This has increased to 1.7% in 2017/18. 1.7% of the population is approximately 16,500 people.
- Prevalence of COPD is statistically significantly lower in C&P CCG compared to the national average.

GP recorded prevalence of COPD by CCG Neighbourhood Team, all ages, 2013/14 – 2017/18, Cambridgeshire and Peterborough CCG

| No falcher ordered Taxon | | Registrations (number) | | | | Prevalence (%) | | | | |
|----------------------------------|-----------|------------------------|-----------|-----------|-----------|----------------|---------|---------|---------|---------|
| Neighbourhood Team | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 |
| 01 NT - Cambridge East | 593 | 572 | 593 | 593 | 593 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 |
| 02 NT - Cambridge City North | 858 | 895 | 927 | 949 | 971 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 |
| 03 NT - Cambridge South Villages | 654 | 687 | 705 | 740 | 768 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 |
| 04 NT - Cambridge North Villages | 732 | 803 | 830 | 873 | 885 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 |
| 05 NT - Cambridge City South | 414 | 419 | 433 | 436 | 459 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 |
| 06 NT - Cambridge City | 493 | 517 | 555 | 543 | 549 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 07 NT - Huntingdon Central | 1,035 | 1,081 | 1,127 | 1,139 | 1,201 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 |
| 08 NT - St Ives | 738 | 810 | 848 | 893 | 920 | 1.4 | 1.6 | 1.6 | 1.7 | 1.7 |
| 09 NT - St Neots | 948 | 1,009 | 1,053 | 1,056 | 1,091 | 1.8 | 1.8 | | | 1.9 |
| 10 NT - Isle of Ely | 1,243 | 1,347 | 1,414 | 1,464 | 1,526 | 1.6 | 1.8 | | | 1.9 |
| 11 NT - Fenland | 1,208 | 1,210 | 1,252 | 1,279 | 1,327 | | | | | 2.8 |
| 12 NT - Wisbech | 1,179 | 1,211 | 1,262 | 1,323 | 1,369 | 2.5 | 2.5 | 2.6 | 2.6 | 2.7 |
| 13 NT - Peterborough City 1 | 1,132 | 1,163 | 1,211 | 1,256 | 1,315 | 1.5 | 1.4 | 1.4 | 1.4 | 1.5 |
| 14 NT - Peterborough City 2 | 852 | 839 | 837 | 825 | 803 | | | | | 2.4 |
| 15 NT - Borderline | 1,653 | 1,712 | 1,809 | 1,893 | 1,964 | 1.8 | 1.9 | | 1.9 | 1.9 |
| 16 NT - Borderline Central | 688 | 724 | 756 | 758 | 772 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 |
| C&P CCG | 14,420 | 14,999 | 15,612 | 16,020 | 16,513 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 |
| England | 1,004,920 | 1,034,578 | 1,066,471 | 1,087,908 | 1,113,417 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 |

Notes: COPD defined as patients on the practice register with chronic obstructive pulmonary disease (COPD) QOF prevalence data is GP recorded and not age standardised.



Source: Quality and Outcomes Framework (QOF), NHS digital

- Between 2013/14 and 2017/18 the prevalence of COPD in C&P CCG has been statistically significantly lower than England, however within the C&P CCG neighbourhood team areas prevalence varies in terms of statistical significance and numerical values.
- In 2017/18 seven neighbourhood teams have a prevalence of COPD that is statistically significantly higher than the C&P CCG average. This was unchanged since 2015/16, and in some of these areas the prevalence appears to be increasing.

Practices with a GP recorded prevalence rate of COPD which is statistically significantly higher than the Cambridgeshire and Peterborough CCG average, 2017/18

| GP Practice | Neighbourhood Team | Registrations | Prevalence (%) | CI Lower | CI Upper |
|-----------------------------|----------------------------------|---------------|----------------|----------|----------|
| Alconbury and Brampton | 07 NT - Huntingdon Central | 219 | 2.2 | 2.0 | 2.6 |
| Almond Road, St Neots | 09 NT - St Neots | 161 | 2.2 | 1.9 | 2.6 |
| Arbury Road, Cambridge | 02 NT - Cambridge City North | 260 | 2.1 | 1.8 | 2.3 |
| Boroughbury Medical Centre | 14 NT - Peterborough City 2 | 651 | 2.6 | 2.4 | 2.8 |
| Bottisham | 04 NT - Cambridge North Villages | 137 | 2.3 | 2.0 | 2.7 |
| Bretton Medical Practice | 13 NT - Peterborough City 1 | 279 | 2.3 | 2.1 | 2.6 |
| Cambridge Access Surgery | 06 NT - Cambridge City | 27 | 4.8 | 3.3 | 6.8 |
| Cedar House, St Neots | 09 NT - St Neots | 265 | 2.0 | 1.8 | 2.3 |
| Cherry Hinton Med Centre | 02 NT - Cambridge City North | 212 | 2.0 | 1.7 | 2.3 |
| Church St, Somersham | 08 NT - St Ives | 67 | 3.2 | 2.5 | 4.0 |
| Clarkson Surgery, Wisbech | 12 NT - Wisbech | 348 | 3.0 | 2.7 | 3.3 |
| Cornerstone Practice, March | 11 NT - Fenland | 271 | 3.0 | 2.6 | 3.3 |
| Cottenham | 04 NT - Cambridge North Villages | 84 | 2.2 | 1.8 | 2.7 |
| Cromwell Place, St Ives | 08 NT - St Ives | 240 | 2.2 | 1.9 | 2.4 |
| Eaton Socon | 09 NT - St Neots | 265 | 2.3 | 2.0 | 2.5 |
| Fenland Group Practice | 11 NT - Fenland | 355 | 3.0 | 2.7 | 3.4 |
| George Clare, Chatteris | 11 NT - Fenland | 308 | 2.5 | 2.2 | 2.8 |
| Mercheford House, March | 11 NT - Fenland | 235 | 3.8 | 3.3 | 4.3 |
| Moat House, Warboys | 08 NT - St Ives | 136 | 2.1 | 1.7 | 2.4 |
| North Brink, Wisbech | 12 NT - Wisbech | 536 | 2.7 | 2.5 | 3.0 |
| Nuffield Road, Cambridge | 02 NT - Cambridge City North | 282 | 2.0 | 1.8 | 2.2 |
| Oundle | 15 NT - Borderline | 223 | 2.0 | 1.8 | 2.3 |
| Parson Drove | 12 NT - Wisbech | 154 | 2.3 | 2.0 | 2.7 |
| Priory Fields, Huntingdon | 07 NT - Huntingdon Central | 271 | 2.3 | 2.0 | 2.6 |
| Queen St, Whittlesey | 15 NT - Borderline | 414 | 2.2 | 2.0 | 2.4 |
| Ramsey Health Centre | 07 NT - Huntingdon Central | 199 | 2.8 | 2.4 | 3.2 |
| Soham | 10 NT - Isle of Ely | 421 | 2.1 | 1.9 | 2.3 |
| St George's | 10 NT - Isle of Ely | 252 | 2.3 | 2.0 | 2.6 |
| St Mary's, Ely | 10 NT - Isle of Ely | 367 | 2.4 | 2.2 | 2.6 |
| Sutton | 10 NT - Isle of Ely | 139 | 2.3 | 2.0 | 2.8 |
| Trinity Surgery, Wisbech | 12 NT - Wisbech | 331 | 2.7 | 2.4 | 3.0 |
| Wansford | 15 NT - Borderline | 188 | 2.5 | 2.1 | 2.8 |
| Yaxley | 16 NT - Borderline Central | 321 | 2.0 | 1.8 | 2.2 |
| C&P CCG | | 16,513 | 1.7 | 1.7 | 1.7 |
| England | | 1,113,417 | 1.9 | 1.9 | 1.9 |

Notes: COPD defined as patients on the practice register with chronic obstructive pulmonary disease (COPD) QOF prevalence data is GP recorded and not age standardised.

CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance.

Source: Quality and Outcomes Framework (QOF), NHS digital

Key points:

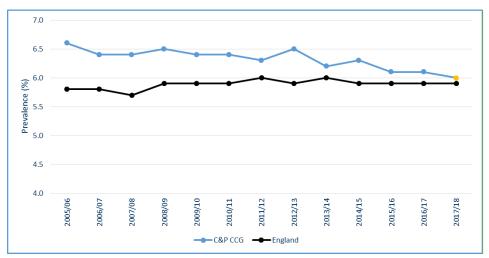
• 33 GP practices have a prevalence of COPD which is statistically significantly higher than the C&P CCG average.

- These GP practices encompass most of the neighbourhood team areas.
- Excluding Cambridge Access Surgery due to its focus on providing services to the homeless community, the GP practice with the highest numerically recorded prevalence of COPD is Mercheford House, March, Fenland, 3.8% (confidence intervals 3.3-4.3%)⁶.
- The GP practice with the highest recorded number of patients with COPD is Boroughbury Medical Centre (Peterborough City 2, 651 registrations, note this is now part of the Octagon practice group).

⁶ Other GP practices may have a truly higher prevalence of COPD when confidence intervals are considered.

Asthma

GP recorded prevalence of asthma 2005/06 - 2017/18, Cambridgeshire and Peterborough CCG

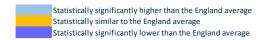


Notes: Asthma defined as patients on the practice register with asthma, excluding patients with asthma who have not been prescribed asthma-related drugs in the preceding 12 months.

QOF prevalence data is GP recorded and not age standardised.

Please note the vertical axis starts at 4.0, not zero.

'Blue-Orange-blue' colour scheme used as this indicator is assessed as higher/lower than the benchmark, rather than better/worse as per the alternative 'Red-Amber-Green' rating.



Source: Quality and Outcomes Framework (QOF), NHS digital

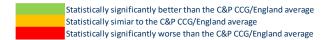
- Asthma prevalence has shown a differing trend for C&P CCG compared to the national trend between 2005/06 and 2017/18.
- In 2005/06 prevalence of asthma was 6.6% for C&P CCG and 5.8% for England. This has decreased to 6.0% in C&P CCG in 2017/18, but increased to 5.9% for England. 6.0% of the C&P CCG population is just under 58,000 people.
- In 2017/18 prevalence of asthma was statistically similar in C&P CCG compared to the national average.

GP recorded prevalence of asthma by CCG Neighbourhood Team, all ages, 2013/14 – 2017/18, Cambridgeshire and Peterborough CCG

| No. abbassiba ad Tagus | Registrations (number) | | | | Prevalence (%) | | | | | |
|----------------------------------|------------------------|-----------|-----------|-----------|----------------|---------|---------|---------|---------|---------|
| Neighbourhood Team | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 |
| 01 NT - Cambridge East | 3,074 | 3,253 | 3,248 | 3,373 | 3,310 | 7.5 | 7.9 | 7.8 | 8.0 | 7.8 |
| 02 NT - Cambridge City North | 3,696 | 3,783 | 3,809 | 3,860 | 3,823 | 5.7 | 5.7 | 5.7 | 5.6 | 5.5 |
| 03 NT - Cambridge South Villages | 3,901 | 4,178 | 4,157 | 4,227 | 4,240 | | | | | 7.2 |
| 04 NT - Cambridge North Villages | 3,212 | 3,370 | 3,476 | 3,540 | 3,510 | 6.6 | 6.8 | 6.8 | 6.9 | 6.8 |
| 05 NT - Cambridge City South | 2,491 | 2,660 | 2,709 | 2,743 | 2,892 | 5.2 | 5.2 | 5.0 | 4.8 | 4.9 |
| 06 NT - Cambridge City | 2,592 | 2,662 | 2,757 | 2,799 | 2,659 | 4.8 | 4.7 | 4.7 | 4.7 | 4.3 |
| 07 NT - Huntingdon Central | 4,129 | 4,211 | 4,103 | 4,135 | 4,105 | | | | | 6.8 |
| 08 NT - St Ives | 3,418 | 3,501 | 3,396 | 3,552 | 3,539 | 6.7 | 6.7 | 6.4 | 6.7 | 6.6 |
| 09 NT - St Neots | 3,464 | 3,478 | 3,380 | 3,503 | 3,483 | 6.4 | 6.3 | 6.1 | 6.2 | 6.1 |
| 10 NT - Isle of Ely | 4,762 | 5,284 | 5,181 | 5,536 | 5,492 | 6.3 | | | | 6.9 |
| 11 NT - Fenland | 3,483 | 3,585 | 3,551 | 3,579 | 3,553 | 7.6 | 7.7 | 7.5 | 7.5 | 7.5 |
| 12 NT - Wisbech | 2,882 | 2,986 | 2,981 | 2,956 | 2,980 | 6.1 | 6.2 | 6.0 | 5.9 | 5.9 |
| 13 NT - Peterborough City 1 | 3,879 | 3,912 | 4,052 | 4,186 | 4,154 | 5.0 | 4.9 | 4.8 | 4.8 | 4.6 |
| 14 NT - Peterborough City 2 | 1,835 | 1,817 | 1,728 | 1,700 | 1,642 | 5.5 | 5.5 | 5.3 | 5.2 | 5.0 |
| 15 NT - Borderline | 5,480 | 5,639 | 5,485 | 5,701 | 5,731 | 6.1 | 6.1 | 5.7 | 5.8 | 5.7 |
| 16 NT - Borderline Central | 2,590 | 2,643 | 2,644 | 2,702 | 2,717 | 5.5 | 5.5 | 5.4 | 5.5 | 5.4 |
| C&P CCG | 54,888 | 56,962 | 56,657 | 58,092 | 57,830 | | | | 6.1 | 6.0 |
| England | 3,340,484 | 3,402,437 | 3,400,679 | 3,444,218 | 3,463,893 | 5.9 | 6.0 | 5.9 | 5.9 | 5.9 |

Notes: Asthma defined as patients on the practice register with asthma, excluding patients with asthma who have not been prescribed asthma-related drugs in the preceding 12 months.

QOF prevalence data is GP recorded and not age standardised.



Source: Quality and Outcomes Framework (QOF), NHS digital

- Between 2013/14 and 2016/17 the prevalence of asthma in C&P CCG has been statistically significantly worse than England, however in 2017/18 it has reduced to a level statistically similar to England. Statistical significance status varies between the C&P CCG neighbourhood team areas.
- In 2017/18 seven neighbourhood teams have a prevalence of asthma that is statistically significantly higher than the C&P CCG average.
- Statistically, prevalence of asthma at the neighbourhood team level has remained fairly consistent in recent years, with most areas assessed as statistically significantly higher than C&P CCG in 2013/14 continuing to be higher in 2017/18.

Practices with a GP recorded prevalence rate of asthma which is statistically significantly higher than the Cambridgeshire and Peterborough CCG average, all ages, 2017/18

| GP Practice | Neighbourhood Team | Registrations | Prevalence (%) | CI Lower | Cl Upper |
|--|----------------------------------|---------------|----------------|----------|----------|
| Alconbury and Brampton | 07 NT - Huntingdon Central | 739 | 7.6 | 7.1 | 8.1 |
| Arbury Road, Cambridge | 02 NT - Cambridge City North | 860 | 6.8 | 6.4 | 7.3 |
| Bottisham | 04 NT - Cambridge North Villages | 482 | 8.2 | 7.5 | 8.9 |
| Buckden and Little Paxton | 09 NT - St Neots | 628 | 7.0 | 6.5 | 7.6 |
| Burwell | 10 NT - Isle of Ely | 650 | 7.7 | 7.1 | 8.3 |
| Cambridge Access Surgery | 06 NT - Cambridge City | 51 | 9.0 | 6.9 | 11.6 |
| Charles Hicks, Huntingdon | 07 NT - Huntingdon Central | 1,065 | 7.6 | 7.2 | 8.1 |
| Clarkson Surgery, Wisbech | 12 NT - Wisbech | 823 | 7.0 | 6.5 | 7.5 |
| Comberton | 03 NT - Cambridge South Villages | 783 | 8.6 | 8.1 | 9.2 |
| Cornerstone Practice, March | 11 NT - Fenland | 740 | 8.1 | 7.5 | 8.7 |
| Cottenham | 04 NT - Cambridge North Villages | 306 | 7.9 | 7.1 | 8.8 |
| Cromwell Place, St Ives | 08 NT - St Ives | 839 | 7.6 | 7.1 | 8.1 |
| Fenland Group Practice | 11 NT - Fenland | 814 | 7.0 | 6.5 | 7.4 |
| George Clare, Chatteris | 11 NT - Fenland | 878 | 7.1 | 6.6 | 7.5 |
| Granta Medical Practices | 01 NT - Cambridge East | 3,310 | 7.8 | 7.5 | 8.0 |
| Great Staughton | 09 NT - St Neots | 248 | 7.5 | 6.7 | 8.5 |
| Haddenham | 10 NT - Isle of Ely | 534 | 7.3 | 6.8 | 8.0 |
| Harston | 03 NT - Cambridge South Villages | 462 | 6.9 | 6.3 | 7.5 |
| Kimbolton | 09 NT - St Neots | 461 | 7.1 | 6.5 | 7.7 |
| Mercheford House, March | 11 NT - Fenland | 531 | 8.5 | 7.8 | 9.2 |
| Milton | 04 NT - Cambridge North Villages | 368 | 7.4 | 6.7 | 8.1 |
| Nuffield Road, Cambridge | 02 NT - Cambridge City North | 975 | 6.9 | 6.4 | 7.3 |
| Orchard Surgery, Melbourn | 03 NT - Cambridge South Villages | 539 | 6.8 | 6.3 | 7.4 |
| Over | 04 NT - Cambridge North Villages | 318 | 6.8 | 6.1 | 7.5 |
| Parkhall Surgery, Somersham | 08 NT - St Ives | 387 | 7.8 | 7.1 | 8.6 |
| Parson Drove | 12 NT - Wisbech | 452 | 6.8 | 6.2 | 7.5 |
| Ramsey Health Centre | 07 NT - Huntingdon Central | 474 | 6.7 | 6.1 | 7.3 |
| Riverside Practice, March | 11 NT - Fenland | 590 | 7.2 | 6.7 | 7.8 |
| Roysia Surgery, Royston | 03 NT - Cambridge South Villages | 554 | 8.6 | 8.0 | 9.4 |
| Royston Health Centre | 03 NT - Cambridge South Villages | 835 | 7.1 | 6.7 | 7.6 |
| Soham | 10 NT - Isle of Ely | 1,341 | 6.6 | 6.3 | 7.0 |
| Spinney, St Ives | 08 NT - St Ives | 678 | 6.5 | 6.1 | 7.0 |
| St George's | 10 NT - Isle of Ely | 849 | 7.6 | 7.2 | 8.1 |
| St Mary's, Ely | 10 NT - Isle of Ely | 1,029 | 6.7 | 6.3 | 7.1 |
| Sutton | 10 NT - Isle of Ely | 474 | 8.0 | 7.3 | 8.7 |
| Swavesey | 04 NT - Cambridge North Villages | 202 | 6.9 | 6.0 | 7.9 |
| Welland Medical Practice, Peterborough | 13 NT - Peterborough City 1 | 307 | 7.5 | 6.7 | 8.4 |
| Wellside Surgery, Sawtry | 07 NT - Huntingdon Central | 497 | 6.7 | 6.1 | 7.3 |
| C&P CCG | | 57,830 | 6.0 | 5.9 | 6.0 |
| England | | 3,463,893 | 5.9 | 5.9 | 5.9 |

Notes: Asthma defined as patients on the practice register with asthma, excluding patients with asthma who have not been prescribed asthma-related drugs in the preceding 12 months

QOF prevalence data is GP recorded and not age standardised.

CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance.

Source: Quality and Outcomes Framework (QOF), NHS digital

- 38 GP practices have a prevalence of asthma which is statistically significantly higher than the C&P CCG average.
- These GP practices encompass most of the neighbourhood team areas.
- Excluding Cambridge Access Surgery due to its focus on providing services to the homeless community, the GP practices with the highest recorded prevalence of asthma are Comberton (8.6%, confidence intervals 8.1-9.2%) and Roysia Surgery, Royston (8.6%, confidence intervals 8.0-9.4%). These two practices are in the Cambridge South Villages neighbourhood team area.

• The GP practice with the highest number of patients with asthma is Granta Medical Practices (Cambridge East, 3,310 registrations). Granta Medical Practices is a collective of GP practices which were previously individual practices, which explains the substantially larger overall number of registrations compared to other GP practices (e.g a larger population base).

Nearest Neighbours

GP recorded prevalence of COPD, Cambridgeshire and Peterborough CCG and its most similar CCGs, 2017/18

| CCG | Neighbour Rank | Prevalence (%) | Cl Lower | Cl Upper |
|------------------------------------|----------------|----------------|----------|----------|
| Oxfordshire | 1 | 1.4 | 1.4 | 1.4 |
| Nene | 2 | 1.8 | 1.8 | 1.8 |
| Gloucestershire | 3 | 1.8 | 1.8 | 1.9 |
| Northen, Eastern and Western Devon | 4 | 2.1 | 2.1 | 2.1 |
| Herts Valleys | 5 | 1.4 | 1.4 | 1.4 |
| Southern Derbyshire | 6 | 1.9 | 1.9 | 2.0 |
| East and North Hertfordshire | 7 | 1.6 | 1.5 | 1.6 |
| Dorset | 8 | 2.1 | 2.1 | 2.1 |
| Somerset | 9 | 2.3 | 2.2 | 2.3 |
| Bedfordshire | 10 | 1.6 | 1.6 | 1.7 |
| Cambridgeshire and Peterborough | | 1.7 | 1.7 | 1.7 |
| England | | 1.9 | 1.9 | 1.9 |

Notes: CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance. QOF prevalence data is GP recorded and not age standardised.

Neighbour rank – 1 to 10 ranked most similar CCGs to the C&P CCG based on multiple variables.

Source: Quality and Outcomes Framework (QOF), NHS digital

Key points:

• Compared to Oxfordshire (the most similar CCG), C&P CCG has a statistically significantly higher recorded prevalence of COPD.

• However, compared to the 10 CCGs ranked most similar to C&P CGG, C&P CCG appears to have a fairly numerically similar prevalence of COPD.

⁷ An assessment of CCGs most similar to C&P CCG 2018, fingertips.phe.org.uk

GP recorded prevalence of Asthma, Cambridgeshire and Peterborough CCG and its most similar⁸ CCGs, 2017/18

| ccg | Neighbour Rank | Prevalence (%) | CI Lower | CI Upper |
|------------------------------------|----------------|----------------|----------|----------|
| Oxfordshire | 1 | 5.7 | 5.7 | 5.8 |
| Nene | 2 | 6.1 | 6.1 | 6.2 |
| Gloucestershire | 3 | 6.6 | 6.6 | 6.7 |
| Northen, Eastern and Western Devon | 4 | 6.7 | 6.7 | 6.8 |
| Herts Valleys | 5 | 5.4 | 5.3 | 5.4 |
| Southern Derbyshire | 6 | 6.3 | 6.3 | 6.4 |
| East and North Hertfordshire | 7 | 5.8 | 5.8 | 5.9 |
| Dorset | 8 | 6.8 | 6.7 | 6.8 |
| Somerset | 9 | 6.6 | 6.5 | 6.6 |
| Bedfordshire | 10 | 6.5 | 6.4 | 6.6 |
| Cambridgeshire and Peterborough | | 6.0 | 5.9 | 6.0 |
| England | | 5.9 | 5.9 | 5.9 |

Notes: CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance to C&P CCG rate.

QOF prevalence data is GP recorded and not age standardised.

Neighbour rank – 1 to 10 ranked most similar CCGs to the C&P CCG based on multiple variables.

Source: Quality and Outcomes Framework (QOF), NHS digital

Key points:

• Compared to Oxfordshire (the most similar CCG), C&P CCG has a statistically significantly higher recorded prevalence of asthma.

 However, compared to the 10 CCGs ranked most similar to C&P CGG, C&P CCG appears to have a comparatively good prevalence of asthma, with 7 CCG's having recorded prevalence levels statistically significantly higher than the C&P CCG.

⁸ An assessment of CCGs most similar to C&P CCG 2018, fingertips.phe.org.uk

Risk factors

Age

Asthma is the most common chronic disease among children.⁹

COPD is more prevalent in older age groups. It is a slow developing condition, and symptoms tend to become a problem for many in mid-life, usually late 40s onwards. 10 Population forecasts show Cambridgeshire and Peterborough are expected to have substantial population growth in the older age groups. 11

Smoking

Smoking is a well-documented risk factor for respiratory disease and the main cause of COPD and is thought to be responsible for 9 in every 10 cases. ¹² There are several sources of smoking estimates, some of which are highlighted in this section.

Prevalence of smoking has declined across the Cambridgeshire and Peterborough area in recent years, however, the rate of decline varies between areas and according to other variables. For example, smoking prevalence is known to be higher in areas with greater deprivation.¹³ Prevalence is also higher in some specific demographic groups such as amongst lower social-economic classification¹⁴ and adults with serious mental illness.¹⁵ Each of these needs to be taken into consideration when exploring smoking as a risk factor.

Smoking prevalence at 15 years - current smokers, regular smokers and occasional smokers, Cambridgeshire and Peterborough, 2014/15

| Area | % Current smokers ¹ | % Regular smokers ² | % Occasional smokers ³ | % E- cigarettes⁴ | % Other⁵ |
|----------------|--------------------------------|-----------------------------------|---|---------------------|----------|
| Cambridgeshire | 8.2 | 5.2 | 3.1 | 15.0 | 16.2 |
| Peterborough | 9.1 | 6.6 | 2.5 | | 17.5 |
| England | 8.2 | 5.5 | 2.7 | 18.4 | 15.2 |

- 1. Regular smokers (>1 cigarette per week) and occasional smokers (smoke cigarettes sometimes)
- 2. Regular smokers (>1 cigarette per week)
- 3. Occasional smokers (<1 cigarette per week)
- 4. Have ever used/tried electronic cigarettes with the combination of currently, used to and tried e-cigarettes
- 5."Have you ever used/tried other tobacco products (i.e. shisha pipe, hookah, hubble-bubble, waterpipe etc.?") with the combination of currently, used to use and tried other tobacco products.

Source: Public Health England, What About YOUth (WAY) Survey

⁹ WHO – Asthma https://www.who.int/respiratory/asthma/en/

¹⁰ Health and Safety Executive - About COPD http://www.hse.gov.uk/copd/aboutus.htm

¹¹ Cambridgeshire County Council Research Group

¹² NHS (2016) Overview - Chronic obstructive pulmonary disease (COPD) [online] Available form: https://www.nhs.uk/conditions/chronic-obstructive-pulmonary-disease-copd/

¹³ Annual Population Survey (2017) – Smoking Prevalence in adults – current smokers

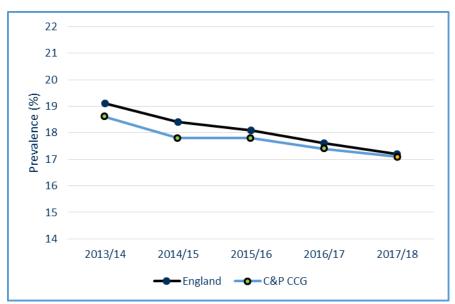
¹⁴ ONS (2016) - Smoking by NS-Sec

¹⁵ HSCIC 2014-15 Smoking Prevalence in adults with serious mental illness (SMI).

Key points:

- The percentage of 15 year olds that are current smokers, regular smokers, occasional and other smokers in both Cambridgeshire and Peterborough are statistically similar to the England average.
- In Cambridgeshire the percentage of E-cigarette smokers is statistically significantly lower than the England average and in Peterborough it is statistically significantly higher.

Estimated Smoking Prevalence in adults (15+) 2013/14 – 2017/18, Cambridgeshire and Peterborough CCG



QOF prevalence data is GP recorded and not age standardised.

Source: Quality and Outcomes Framework (QOF), NHS digital

Key points:

- Smoking prevalence has steadily decreased in recent years for C&P CCG and England.
- In 2013/14 estimated smoking prevalence in C&P CCG was 18.6%, this has reduced to 17.1% in 2017/18.
- Prevalence of 17.1% is approximately 136,500 people in C&P CCG.
- The estimated smoking prevalence in C&P CCG had been statistically significantly lower than the England average for each year between 2013/14 2016/17. Although smoking prevalence declined in 2017/18, C&P CCG is now statistically significantly similar to England due to further national decline.

General practice (GP) recorded smoking prevalence in adults (15+), 2016/17

| Area | Percentage | Number of people |
|---------------------------------|------------|------------------|
| Cambridgeshire | 15.7 | 92,109 |
| Peterborough | 24.3 | 40,083 |
| Cambridgeshire and Peterborough | 17.6 | 132,192 |
| England | 17.6 | 8,421,069 |

Data are not available at district Level and relate to patients recorded as smokers on GP clinical systems. QOF prevalence data is GP recorded and not age standardised.

Source: Quality and Outcomes Framework (QOF), NHS digital

Key points:

 According to the QOF, smoking prevalence in adults 15+ is statistically significantly lower than the national average for Cambridgeshire, statistically significantly higher for Peterborough and statistically similar for Cambridgeshire and Peterborough as a whole.

Smoking prevalence in adults (18+) - current smokers, 2017

| Area | number | % | CI lower | CI upper |
|----------------------|-----------|------|----------|----------|
| Cambridge | 17,290 | 17.0 | 6.5 | 27.5 |
| East Cambridgeshire | 10,624 | 15.3 | 8.9 | 21.8 |
| Fenland | 13,163 | 16.3 | 10.1 | 22.5 |
| Huntingdonshire | 19,590 | 14.0 | 9.1 | 18.8 |
| South Cambridgeshire | 13,721 | 11.3 | 7.4 | 15.2 |
| Cambridgeshire | 74,710 | 14.5 | 11.5 | 17.6 |
| Peterborough | 26,226 | 17.6 | 14.7 | 20.6 |
| England | 6,496,890 | 14.9 | 14.6 | 15.1 |

Statistically significantly better than Cambridgeshire/England average
Statistically similar to the Cambridgeshire/England average
Statistically significantly worse than Cambridgeshire/England average

Districts are RAG-rated against Cambridgeshire, Cambridgeshire and Peterborough are RAG-rated against England average

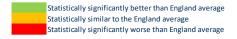
Source: Annual Population Survey (APS), Local Tobacco Control Profiles, PHE

Key points:

 According to the APS, smoking prevalence in adults 18+ is statistically similar in Cambridgeshire, Peterborough and each of the districts to the average for England. The districts are also statistically similar when compared to the Cambridgeshire average. The districts are numerically different, with higher numerical prevalence in Cambridge and Fenland.

Smoking prevalence in all adults and adults in routine and manual occupations (16-64 year olds), 2017

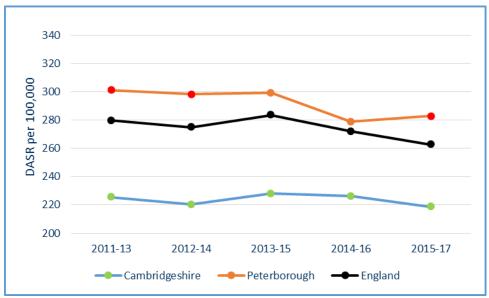
| Анаа | | All | | Routine and manual | | | |
|----------------|------|----------|----------|--------------------|----------|----------|--|
| Area | % | Lower CI | Upper CI | % | Lower CI | Upper CI | |
| Cambridgeshire | 14.5 | 11.5 | 17.6 | 22.8 | 16.0 | 29.6 | |
| Peterborough | 17.6 | 14.7 | 20.6 | 28.5 | 22.1 | 34.9 | |
| England | 14.9 | 14.6 | 15.1 | 25.7 | 25.1 | 26.4 | |



Source: Annual Population Survey

- According to the APS, the prevalence of smoking for all adults and for adults in routine and manual occupations in Cambridgeshire and Peterborough is statistically similar to the England average. However, numerically prevalence is higher in Peterborough.
- There is a higher prevalence of smoking among adults in routine and manual occupations than smoking among all adults in Cambridgeshire.
- Compared to all adults, the prevalence of smoking for adults in routine and manual occupations is statistically significantly higher in Peterborough.

Smoking attributable mortality, Cambridgeshire, Peterborough, England, 2011-13 to 2015-17



DASR - Directly Age Standardised Rate

Statistically significantly better than England average
Statistically similar to the England average
Statistically significantly worse than England average

Source: Local Tobacco Control Profiles, PHE

Key points:

 Rates of smoking attributable mortality in Cambridgeshire have been statistically significantly better than England since 2011-13, whereas in Peterborough rates have been statistically significantly worse or statistically similar to England since 2011-13.

Air pollution

Air pollution is a mixture of particles and gases that can have adverse effects on health. It is the largest environmental risk to the public's health and a known contributory cause of lung cancer and respiratory diseases. 1617

Air pollution increases the chances of hospital admissions, visits to Emergency Departments and respiratory symptoms.¹⁸

High concentrations of air pollution can be found in most UK towns and cities, where sources of pollution, such as road traffic, are more concentrated. ¹⁹ This is reflected across Cambridgeshire and Peterborough, where hot spots of pollution have been identified as urban areas and arterial and trunk roads such as the A14. ²⁰

¹⁶DEFRA (2017) Air Quality: A Briefing for Directors of Public health [online] Available at: https://laqm.defra.gov.uk/assets/63091defraairqualityguide9web.pdf (Accessed 16 September 2018) <a href="https://creativecommons.org/linear-representation-public-based-new-based-ne

DEFRA (2017) Air Quality: A Briefing for Directors of Public health [online] Available at: https://laqm.defra.gov.uk/assets/63091defraairqualityguide9web.pdf (Accessed 16 September 2018)
 British Lung Foundation (2017) Air Pollution [online] Available form: https://www.blf.org.uk/support-for-you/air-pollution/what-is-it (Accessed 11 October 2018).

²⁰ Cambridgeshire Transport and Health JSNA (2015)

Occupational exposures

Occupational exposures to certain fumes and dust are thought to contribute to the causes of COPD and other respiratory diseases such as pneumonia, lung-disease and asthma. Therefore an increased risk of COPD is associated with working in certain industries. These include (but are not limited to) agriculture, mining and construction.

Deprivation

Mortality from respiratory disease by deprivation quintile of ward of residence, Cambridgeshire, 2015-17

| | All a | ges | Under 75s | | |
|----------------------|-----------|----------|-----------|----------|--|
| Deprivation quintile | Number of | DASR per | Number of | DASR per | |
| | deaths | 100,000 | deaths | 100,000 | |
| 1 - Most deprived | 557 | 143 | 138 | 42 | |
| 2 | 459 | 119 | 106 | 30 | |
| 3 | 395 | 112 | 73 | 22 | |
| 4 | 393 | 100 | 83 | 24 | |
| 5 - Least deprived | 283 | 94 | 50 | 18 | |
| Cambridgeshire | 2,087 | 114 | 450 | 27 | |

DASR - Directly age-standardised rate

Note: mortality data is presented by local authority, not CCG.

Statistically significantly better than the Cambridgeshire average
Statistically similar to the Cambridgeshire average
Statistically significantly worse than the Cambridgeshire average

Source: Cambridgeshire County Council Public Health Intelligence (NHS Digital Primary Care Mortality Database, ONS mid-year population estimates, 2015 Index of Multiple Deprivation).

Key point:

• The rates of all-age and under 75 mortality due to respiratory disease are statistically significantly higher than the Cambridgeshire average in the most deprived 20% of wards in the county and statistically significantly lower in the least deprived 20% of wards in the county.

²¹ Health and Safety Executive COPD causes – occupations and substances http://www.hse.gov.uk/copd/causes.htm

²² Health and Safety Executive – prevent work-related lung disease http://www.hse.gov.uk/lung-disease/index.htm

²³ As above

Mortality from respiratory disease by deprivation quintile of ward of residence, Peterborough, 2015-17

| | All a | ages | Under 75s | | | |
|----------------------|------------------|---------------------|------------------|---------------------|--|--|
| Deprivation quintile | Number of deaths | DASR per 100,000 | Number of deaths | DASR per 100,000 | | |
| 1 - Most deprived | 186 | 164 | 56 | 54 | | |
| 2 | 175 | 180 | 37 | 45 | | |
| 3 | 146 | 154 | 36 | 39 | | |
| 4 | 117 | 122 | 30 | 32 | | |
| 5 - Least deprived | 50 | 118 | 14 | 32 | | |
| Peterborouh | 674 | 151 | 173 | 42 | | |

DASR - Directly age-standardised rate

Note: mortality data is presented by local authority, not CCG.

Statistically significantly better than the Peterborough average
Statistically similar to the Peterborough average
Statistically significantly worse than the Peterborough average

Source: Cambridgeshire County Council Public Health Intelligence (NHS Digital Primary Care Mortality Database, ONS mid-year population estimates, 2015 Index of Multiple Deprivation).

Key point:

• The rates of all-age and under 75 mortality due to respiratory disease are statistically similar to the Peterborough average for all deprivation quintiles in Peterborough.

COPD prevalence 2017/18 in Cambridgeshire and Peterborough CCG, by Index of Multiple Deprivation (IMD) 2015 quintile

| Deprivation quintile | Registrations | Prevalence (%) | CI Lower | CI Upper |
|----------------------|---------------|----------------|----------|----------|
| 1 - Most deprived | 4,910 | 1.97 | 1.91 | 2.02 |
| 2 | 3,984 | 2.11 | 2.05 | 2.18 |
| 3 | 2,968 | 1.51 | 1.45 | 1.56 |
| 4 | 2,239 | 1.42 | 1.36 | 1.48 |
| 5 - Least deprived | 2,412 | 1.39 | 1.33 | 1.44 |
| C&P CCG | 16,513 | 1.71 | 1.68 | 1.73 |
| England | 1,113,417 | 1.91 | 1.90 | 1.91 |

Note: Quintile – where the population is divided into five equal groups, with the most deprived 20% (fifth) appearing in the 'most deprived' quintile and so on.

QOF prevalence data is GP recorded and not age standardised.

Statistically significantly better than the C&P CCG/England average
Statistically simiar to the C&P CCG/England average
Statistically significantly worse than the C&P CCG/England average

Source: Quality and Outcomes Framework (QOF), NHS digital and Index of Multiple Deprivation 2015, DCLG

- C&P CCG has a prevalence rate of COPD which is statistically significantly better than England. However, this appears to vary with levels of deprivation.
- C&P CCG areas which are categorised into the most deprived quintiles have a prevalence of COPD which is statistically significantly worse than the C&P CCG average.
- This compares to the prevalence of COPD in areas categorised into the three least deprived quintiles in C&P CCG, where prevalence of COPD is statistically significantly better than the C&P CCG average.

Asthma prevalence 2017/18 in Cambridgeshire and Peterborough CCG, by Index of Multiple Deprivation (IMD) 2015 quintile

| Deprivation quintile | Registrations | Prevalence (%) | CI Lower | CI Upper |
|----------------------|---------------|----------------|----------|----------|
| 1 - Most deprived | 13,262 | 5.31 | 5.22 | 5.40 |
| 2 | 12,122 | 6.43 | 6.32 | 6.54 |
| 3 | 10,722 | 5.44 | 5.34 | 5.54 |
| 4 | 10,196 | 6.47 | 6.35 | 6.59 |
| 5 - Least deprived | 11,528 | 6.62 | 6.50 | 6.74 |
| C&P CCG | 57,830 | 5.98 | 5.93 | 6.03 |
| England | 3,463,893 | 5.93 | 5.93 | 5.94 |

Note: Quintile – where the population is divided into five equal groups, with the most deprived 20% (fifth) appearing in the 'most deprived' quintile and so on.

QOF prevalence data is GP recorded and not age standardised.

Statistically significantly better than the C&P CCG/England average
Statistically simiar to the C&P CCG/England average
Statistically significantly worse than the C&P CCG/England average

Source: Quality and Outcomes Framework (QOF), NHS digital and Index of Multiple Deprivation 2015, DCLG

- C&P CCG has a prevalence rate of asthma which is statistically similar to the England average. However, this appears to vary with levels of deprivation.
- C&P CCG areas which are categorised into the most deprived quintile have a prevalence of asthma which is statistically significantly better than the C&P CCG average.
- This compares to the prevalence of asthma in areas categorised into the least deprived quintile in C&P CCG, where prevalence of asthma is statistically significantly worse than the C&P CCG average.
- This data does not present a clear correlation between the five quintiles of deprivation and asthma prevalence, which may be of interest for further investigation as national trends often show stronger correlation.²⁴

²⁴ British Lung Foundation, Asthma Statistics [online] Available from: https://statistics.blf.org.uk/asthma Asthma UK, Health Inequality and Asthma [online] Available from: https://www.asthma.org.uk/support-us/campaigns/publications/inequality/

Prevention

The model of care for chronic respiratory conditions is preventative. It is important to prevent to reduce the level of exposure of individuals and populations to common risk factors. These include exposure to tobacco, poor nutrition, frequent lower respiratory infections during childhood, and environmental air pollution (indoor, outdoor, and occupational).²⁵

Primary care

Smoking Cessation

Stopping smoking can help stop COPD, and other respiratory conditions, getting worse.²⁶ Smoking is the biggest preventable risk factor for respiratory diseases.²⁷

Overall smoking prevalence is declining across C&P CGG. However, rates remain higher among certain demographic groups (e.g. adults in routine and manual occupations²⁸) which may need consideration when focusing on reducing rates of smoking.

Smoking cessation in Cambridgeshire and Peterborough, 2017/18

| Indicator | Period | England (rate) | Cambs (rate) | Cambs (number) | Pboro (rate) | Pboro (number) |
|---|---------|-------------------|-----------------|-------------------|-----------------|-------------------|
| Number setting a quit date per 100,000 smokers* | 2017/18 | 4,097 | 4,976 | 3,819 | 5,235 | 1,415 |
| Successful quitters at 4 weeks per 100,000 smokers* | 2017/18 | 2,070 | 2,723 | 2,090 | 3,241 | 876 |
| Quitter (CO validated) at 4 weeks per 100,000 smokers* | 2017/18 | 1,477 | 1,545 | 1,186 | 2,786 | 753 |
| Completeness of NS-SEC recording by Stop Smoking Services (%) | 2017/18 | 91.3%~ | 91.0% | 3,476 | 100.0% | 1,415 |
| Cost per quitter (£) | 2017/18 | £519~ | £638 | 1,332,491 | £390 | 341,909 |

^{*}crude rate per 100,000 smokers 16+ years

Source: Public Health England Local Tobacco Control Profiles²⁹

- Overall, though not formally statistically assessed, 2017/18 smoking cessation performance in Cambridgeshire and Peterborough as a whole appears better than that in England.
- Cambridgeshire and Peterborough have numerically higher rates of CO validated smoking quitters compared with England, although the difference is not statistically tested.
- Cambridgeshire has a similar completeness rate of 91.0% for NS-SEC (social class) recording
 compared to England. Note, however, that Cambridgeshire Stop Smoking Services record
 data about routine and manual workers who stop smoking and geographic and GP based
 data to address inequalities. Peterborough has 100% completeness for NS-SEC (social class)
 recording.

[~]aggregated up from lower known geographies

²⁵ WHO strategy for prevention and control of chronic respiratory diseases (2002) https://www.who.int/respiratory/publications/crd_strategy/en/

²⁶ NHS England, Causes – COPD https://www.nhs.uk/conditions/chronic-obstructive-pulmonary-disease-copd/causes/

²⁷ https://www.gov.uk/government/news/chronic-smoking-related-lung-disease-blights-over-1-million-lives-in-england

²⁸ Smoking Prevalence in adults in routine and manual occupations (18-64) - current smokers (Annual Population Survey)

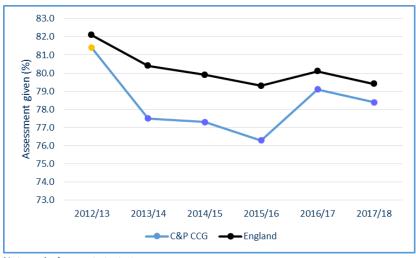
²⁹ Local Tobacco Control Profiles: Summary for Cambridgeshire and Peterborough, May 2018 available from https://cambridgeshireinsight.org.uk/health/topics/smoking/

- Cambridgeshire's rate of successful 4 week quitters has remained similar between 2016/17 and 2017/18 (2,787 per 100,000 in 2016/17 and 2,723 per 100,000 in 2017/18).
 Peterborough's rate of successful 4 week quitters has increased during this period from 2,441 to 3,241 per 100,000. In contrast, nationally a decline was recorded (2,248 to 2,070 per 100,000).
- Between 2016/17 and 2017/18 the rate of CO validated quitters has declined in Cambridgeshire from 1,878 to 1,545 and nationally from 1,627 to 1,477, but in Peterborough the rate has increased from 2,036 to 2,786 per 100,000 smokers.

Early intervention and monitoring

COPD is increasingly recognised as a treatable disease with large improvements in symptoms, health status, exacerbation rates and even mortality if managed appropriately.³⁰

Percentage of COPD patients who have had an assessment of breathlessness using the MRC dyspnoea score in the preceding 12 months (COPD003).



Note: axis does not start at zero.

QOF prevalence data is GP recorded and not age standardised.

'Blue-Orange-blue' colour scheme used as this indicator is assessed as higher/lower than the benchmark, rather than better/worse as per the alternative 'Red-Amber-Green' rating.



Source: Quality and Outcomes Framework (QOF), NHS digital

Key points:

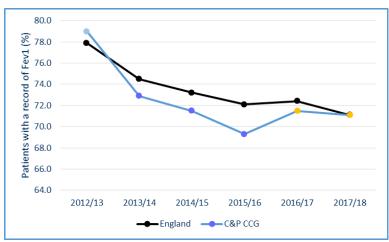
• The percentage of C&P CCG patients with COPD who have had a review, undertaken by a healthcare professional, including an assessment of breathlessness using the MRC dyspnoea score in the preceding 12 months is statistically significantly lower than the England average in C&P CCG (78.4% compared to 79.4%), and has been so since 2013/14.

³⁰ PHE National General Practice Profiles Indicator Definitions and Supporting Information – COPD003 assessed using MRC dyspnoea score last 12mths. Available at: https://fingertips.phe.org.uk/profile/general-practice/data#page/6/gid/2000006/pat/46/par/E39000031/ati/152/are/E38000026/iid/90611/age/1/sex/4

Between 2015/16 the 2016/17 there was an increase in the percentage of patients who
received the assessment, but this appears to have fallen in 2017/18. England also saw an
apparent decline in 2017/18.

There is a gradual deterioration in lung function in patients with COPD which accelerates with the passage of time. There are important interventions which can improve quality of life in patients with severe COPD. It is therefore important to monitor respiratory function in order to identify patients who might benefit from pulmonary rehabilitation or continuous oxygen therapy. NICE clinical guidelines recommend that FEV1 and inhaler techniques should be assessed at least annually for people with mild/moderate/severe COPD. The purpose of regular monitoring is to identify patients with increasing severity of disease who may benefit from referral for more intensive treatments/diagnostic review.³¹

Percentage of COPD patients with a record of FEV1 in the previous 15 months (COPD004)



Note: axis does not start at zero.

QOF prevalence data is GP recorded and not age standardised.

'Blue-Orange-blue' colour scheme used as this indicator is assessed as higher/lower than the benchmark, rather than better/worse as per the alternative 'Red-Amber-Green' rating.

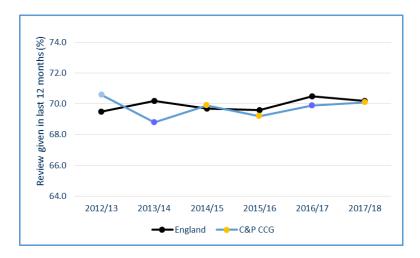
Statistically significantly higher than the England average
Statistically similar to the England average
Statistically significantly lower than the England average

Source: Quality and Outcomes Framework (QOF), NHS digital

- The percentage of C&P CCG COPD patients with a record of FEV1 in the previous 15 months is statistically similar to the national rate for the second year.
- Nationally figures appear to be in decline, although this is not statistically assessed.

³¹ PHE National General Practice Profiles Indicator Definitions and Supporting Information – COPD004: Record of FEV1 in last 12mths. Available at: https://fingertips.phe.org.uk/profile/general-practice/data#page/6/gid/2000006/pat/46/par/E39000031/ati/152/are/E38000026/iid/90610/age/1/sex/4

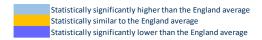
Percentage of asthma patients who have had an asthma review in the last 12 months (incl. assessment using the 3 RCP questions) (AST003)



Note: axis does not start at zero.

QOF prevalence data is GP recorded and not age standardised.

'Blue-Orange-blue' colour scheme used as this indicator is assessed as higher/lower than the benchmark, rather than better/worse as per the alternative 'Red-Amber-Green' rating.



Source: Quality and Outcomes Framework (QOF), NHS digital

Key points:

• The percentage of C&P CCG asthma patients who have had an asthma review in the last 12 months is statistically similar to the national rate.

Flu vaccinations

The flu vaccination is offered to people who are at greater risk of developing serious complications if they catch flu, this includes those with chronic respiratory conditions.

Flu vaccination coverage across the Cambridgeshire and Peterborough authorities for those aged 65+ and for at risk³² individuals is below the national uptake ambition of 75% for 65+ and 55% for at risk individuals, set by the NHS to reflect the World Health Organisations (WHO) target.³³ Cambridgeshire has a recent upward trend for flu vaccination coverage of 65+. Cambridgeshire rates (74.4% in 2017/18) remain below the national benchmark but are statistically significantly better than England (72.6%).

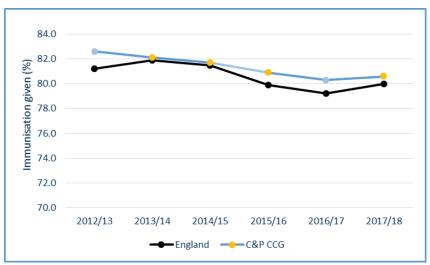
Peterborough has a recent downward trend of coverage among those aged 65+, however numerically coverage has increased in the last two years (from 68.5% in 2015/16 to 71.3% in 2017/18). Peterborough rates for 65+ coverage remain below the national benchmark set and are statistically significantly worse than England (72.8%).

³² At risk includes clinical risk groups such as those with chronic respiratory conditions

³³ NHS England, The national flu vaccination programme 2019/20. https://www.england.nhs.uk/wp-content/uploads/2019/03/annual-national-flu-programme-2019-to-2020-1.pdf

Overall, there is a recent downward trend for flu vaccination coverage of at risk individuals for Cambridgeshire and Peterborough. However, numerically, Cambridgeshire, Peterborough, and England have seen slight increases in coverage in the last two years, although all three remain below the national benchmark goal. Cambridgeshire rates for at risk individuals are now statistically significantly better than England (49.8% compared to 48.9%).

Patients with COPD who have had influenza immunisation in the preceding 1 August to 31 March (Department of Health recommendation - COPD007).



Note: axis does not start at zero.

QOF prevalence data is GP recorded and not age standardised.

'Blue-Orange-blue' colour scheme used as this indicator is assessed as higher/lower than the benchmark, rather than better/worse as per the alternative 'Red-Amber-Green' rating.



Source: Quality and Outcomes Framework (QOF), NHS digital

- The Department of Health recommend COPD patients to have the influenza immunisation.
- Overall, rates in C&P CCG have fallen slightly in recent years from 82.6% in 2012/13 to 80.3% in 2016/17. 2017/18 saw a small numerical increase to 80.6%. England has followed a similar trend.
- Rates in C&P CCG are currently statistically similar to the England average (80.6% compared to 80.0%).

Secondary care (hospital admissions)

Hospital admission episodes for respiratory diseases – all admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | | All a | iges | | Under 75s | | | | |
|---------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|--|
| Neighbourhood Team | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | CI Lower | Cl Upper | |
| Borderline | 1,572 | 1,613.3 | 1,533.9 | 1,695.8 | 1,148 | 1,242.0 | 1,170.8 | 1,316.5 | |
| Borderline Central | 780 | 1,788.9 | 1,659.1 | 1,925.8 | 561 | 1,204.9 | 1,103.2 | 1,313.1 | |
| City | 641 | 1,553.5 | 1,428.1 | 1,686.5 | 463 | 1,072.1 | 969.9 | 1,181.4 | |
| City North | 828 | 1,631.6 | 1,517.3 | 1,752.0 | 605 | 1,216.4 | 1,116.2 | 1,322.8 | |
| City South | 545 | 1,284.1 | 1,171.7 | 1,403.9 | 403 | 939.1 | 842.8 | 1,042.8 | |
| East | 543 | 1,228.7 | 1,127.0 | 1,337.2 | 346 | 877.3 | 786.9 | 975.3 | |
| Fenland | 1,111 | 2,199.1 | 2,071.1 | 2,333.0 | 758 | 1,670.8 | 1,553.5 | 1,794.7 | |
| Huntingdon Central | 1,236 | 2,160.3 | 2,040.7 | 2,285.0 | 863 | 1,570.7 | 1,467.2 | 1,679.7 | |
| Isle of Ely | 1,071 | 1,390.3 | 1,307.9 | 1,476.5 | 734 | 1,018.1 | 945.5 | 1,094.7 | |
| North Villages | 789 | 1,566.5 | 1,458.2 | 1,680.7 | 518 | 1,111.5 | 1,017.3 | 1,211.9 | |
| Peterborough City 1 | 1,284 | 1,873.6 | 1,758.5 | 1,993.6 | 1,061 | 1,371.9 | 1,282.4 | 1,465.5 | |
| Peterborough City 2 | 679 | 1,965.4 | 1,819.0 | 2,120.3 | 414 | 1,396.0 | 1,264.3 | 1,537.7 | |
| South Villages | 877 | 1,570.1 | 1,466.6 | 1,679.0 | 587 | 1,085.1 | 998.0 | 1,177.8 | |
| St Ives | 1,072 | 2,029.7 | 1,909.5 | 2,155.5 | 762 | 1,530.1 | 1,422.9 | 1,643.1 | |
| St Neots | 1,139 | 2,038.9 | 1,921.5 | 2,161.7 | 800 | 1,490.1 | 1,388.3 | 1,597.5 | |
| Wisbech | 1,114 | 2,207.8 | 2,079.5 | 2,341.9 | 780 | 1,681.9 | 1,565.5 | 1,804.5 | |
| C&P CCG | 15,281 | 1,730.4 | 1,702.8 | 1,758.4 | 10,803 | 1,261.1 | 1,237.2 | 1,285.3 | |

Note: Respiratory definition includes ICD10 codes J00-J99. DASR – Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

- In 2017/18 there were almost 15,300 hospital admission episodes for respiratory conditions (all ages) across C&P CCG; this is an age standardised rate of 1,730.4 per 100,000 population.
- In 2017/18 there were just over 10,800 hospital admission episodes for respiratory conditions (under 75s) across C&P CCG, this is an age standardised rate of 1,261.1 per 100,000 population.
- The rate of hospital admissions varies across the neighbourhood team areas.
- Fenland, Huntingdon Central, St Ives, St Neots, and Wisbech have levels of hospital admission episodes for respiratory conditions which are statistically significantly higher (worse) than the C&P CCG average for all ages and under 75s.
- Peterborough City 1 and Peterborough City 2 have levels of hospital admission episodes for respiratory conditions which are statistically significantly higher (worse) than the C&P CCG average for all ages.

Hospital admission episodes for respiratory diseases – elective admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | | All a | iges | | Under 75s | | | | |
|---------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|--|
| Neighbourhood Team | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | CI Lower | CI Upper | |
| Borderline | 328 | 336.9 | 301.3 | 375.6 | 307 | 343.4 | 305.9 | 384.2 | |
| Borderline Central | 164 | 345.3 | 292.7 | 404.4 | 147 | 321.6 | 270.4 | 379.5 | |
| City | 192 | 402.8 | 342.9 | 469.6 | 168 | 353.3 | 297.5 | 416.0 | |
| City North | 197 | 356.8 | 305.8 | 413.5 | 168 | 310.5 | 262.7 | 364.2 | |
| City South | 164 | 341.6 | 286.5 | 403.5 | 143 | 298.4 | 247.0 | 356.5 | |
| East | 165 | 382.3 | 325.8 | 445.7 | 139 | 353.8 | 297.0 | 418.1 | |
| Fenland | 262 | 535.0 | 471.9 | 604.2 | 225 | 509.0 | 444.3 | 580.4 | |
| Huntingdon Central | 305 | 527.9 | 470.0 | 590.9 | 260 | 482.8 | 425.6 | 545.4 | |
| Isle of Ely | 330 | 419.3 | 375.1 | 467.2 | 292 | 403.6 | 358.5 | 452.9 | |
| North Villages | 241 | 481.5 | 422.2 | 546.7 | 190 | 408.6 | 352.3 | 471.3 | |
| Peterborough City 1 | 245 | 319.9 | 277.1 | 366.9 | 234 | 315.8 | 273.5 | 362.4 | |
| Peterborough City 2 | 123 | 377.4 | 313.3 | 450.6 | 108 | 367.8 | 301.5 | 444.3 | |
| South Villages | 290 | 503.9 | 446.8 | 566.2 | 254 | 473.1 | 416.0 | 535.8 | |
| St Ives | 288 | 541.9 | 480.8 | 608.5 | 253 | 516.3 | 454.3 | 584.3 | |
| St Neots | 321 | 571.1 | 510.1 | 637.5 | 266 | 507.5 | 448.1 | 572.5 | |
| Wisbech | 197 | 391.8 | 338.8 | 450.7 | 160 | 349.5 | 297.3 | 408.2 | |
| C&P CCG | 3,812 | 419.5 | 406.2 | 433.2 | 3,314 | 387.9 | 374.7 | 401.5 | |

Note: Respiratory definition includes ICD10 codes J00-J99. DASR - Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

- In 2017/18 there were just over 3,800 elective hospital admission episodes for respiratory conditions (all ages) across C&P CCG; this is an age standardised rate of 419.5 per 100,000 population.
- In 2017/18 there were just over 3,300 elective hospital admission episodes for respiratory conditions (under 75s) across C&P CCG, this is an age standardised rate of 387.9 per 100,000 population.
- The rate of hospital admissions varies across the neighbourhood team areas.
- Fenland, Huntingdon Central, South Villages and St Ives have levels of elective hospital admission episodes for respiratory conditions which are statistically significantly higher (worse) than the C&P CCG average for all ages and under 75s.
- St Neots has levels of elective hospital admission episodes for respiratory conditions which are statistically significantly higher (worse) than the C&P CCG average for under 75s.

Hospital admission episodes for respiratory diseases – emergency admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | | All a | ages | | Under 75s | | | | |
|---------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|--|
| Neighbourhood Team | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | Cl Lower | CI Upper | |
| Borderline | 1,228 | 1,260.0 | 1,189.8 | 1,333.2 | 828 | 884.2 | 824.6 | 947.0 | |
| Borderline Central | 612 | 1,432.3 | 1,315.0 | 1,556.9 | 411 | 874.8 | 788.4 | 967.8 | |
| City | 447 | 1,145.6 | 1,036.6 | 1,262.5 | 294 | 716.6 | 632.3 | 808.4 | |
| City North | 624 | 1,258.7 | 1,157.8 | 1,365.8 | 434 | 898.8 | 812.0 | 992.1 | |
| City South | 375 | 933.7 | 837.0 | 1,038.1 | 254 | 631.0 | 551.0 | 718.8 | |
| East | 372 | 831.6 | 748.8 | 921.0 | 202 | 510.1 | 441.9 | 585.7 | |
| Fenland | 837 | 1,640.0 | 1,530.3 | 1,755.5 | 525 | 1,144.5 | 1,048.3 | 1,247.1 | |
| Huntingdon Central | 914 | 1,602.2 | 1,499.3 | 1,710.3 | 594 | 1,072.5 | 987.5 | 1,162.8 | |
| Isle of Ely | 730 | 956.5 | 888.1 | 1,028.9 | 431 | 598.5 | 543.2 | 658.0 | |
| North Villages | 542 | 1,073.5 | 984.2 | 1,168.7 | 324 | 694.1 | 620.1 | 774.4 | |
| Peterborough City 1 | 1,036 | 1,548.8 | 1,442.6 | 1,660.0 | 824 | 1,050.6 | 972.5 | 1,132.7 | |
| Peterborough City 2 | 554 | 1,582.1 | 1,451.9 | 1,720.8 | 306 | 1,028.2 | 915.9 | 1,150.5 | |
| South Villages | 585 | 1,062.6 | 977.1 | 1,153.4 | 332 | 610.0 | 545.3 | 680.2 | |
| St Ives | 771 | 1,464.2 | 1,362.2 | 1,571.7 | 498 | 992.3 | 906.8 | 1,083.7 | |
| St Neots | 813 | 1,458.0 | 1,358.8 | 1,562.5 | 532 | 978.9 | 897.2 | 1,066.0 | |
| Wisbech | 907 | 1,795.6 | 1,680.1 | 1,916.9 | 611 | 1,312.5 | 1,210.1 | 1,421.1 | |
| C&P CCG | 11,347 | 1,296.7 | 1,272.7 | 1,321.1 | 7,400 | 862.4 | 842.7 | 882.5 | |

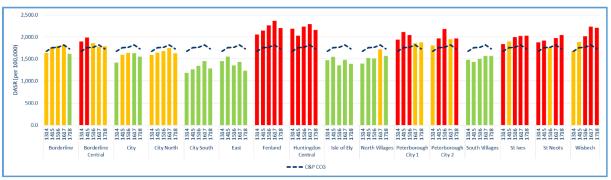
Note: Respiratory definition includes ICD10 codes J00-J99. DASR - Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

- In 2017/18 there were more than 11,300 emergency hospital admission episodes for respiratory conditions (all ages) across C&P CCG; this is an age standardised rate of 1,296.7 per 100,000 population.
- In 2017/18 there were 7,400 emergency hospital admission episodes for respiratory conditions (under 75s) across C&P CCG, this is an age standardised rate of 862.4 per 100,000 population.
- The rate of hospital admissions varies across the neighbourhood team areas.
- Fenland, Huntingdon Central, Peterborough City 1, Peterborough City 2, St Ives, St Neots and Wisbech have levels of emergency hospital admission episodes for respiratory conditions which are statistically significantly higher (worse) than the C&P CCG average for all ages and under 75s.

Hospital admission episodes for respiratory diseases – all admissions, Cambridgeshire and Peterborough CCG, 2013/14 - 2017/18



Note: Respiratory definition includes ICD10 codes J00-J99. DASR - Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

Key points:

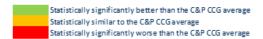
- The rate of hospital admissions varies across the neighbourhood team areas.
- Fenland, Huntingdon Central, Peterborough City 2, St Ives, St Neots and Wisbech have levels
 of hospital admission episodes for respiratory conditions (all ages) that are statistically
 significantly higher than the C&P CCG average in 2017/18.

Hospital admission episodes for respiratory diseases by deprivation quintile – all admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | All ages | | | | Under 75s | | | | |
|----------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|--|
| Deprivation quintile | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | CI Lower | CI Upper | |
| 1 - Most deprived | 4,662 | 1,970.5 | 1,913.0 | 2,029.2 | 3,376 | 1,449.6 | 1,400.1 | 1,500.4 | |
| 2 | 3,140 | 1,905.3 | 1,838.0 | 1,974.3 | 2,253 | 1,410.8 | 1,352.1 | 1,471.4 | |
| 3 | 2,743 | 1,685.8 | 1,622.5 | 1,750.9 | 1,895 | 1,176.4 | 1,123.6 | 1,231.0 | |
| 4 | 2,022 | 1,490.3 | 1,425.2 | 1,557.7 | 1,466 | 1,110.3 | 1,053.5 | 1,169.4 | |
| 5 - Least deprived | 2,714 | 1,490.3 | 1,434.5 | 1,547.6 | 1,813 | 1,070.6 | 1,021.8 | 1,121.1 | |
| C&P CCG | 15,281 | 1,730.4 | 1,702.8 | 1,758.4 | 10,803 | 1,261.1 | 1,237.2 | 1,285.3 | |

Note: Respiratory definition includes ICD10 codes J00-J99. DASR - Directly age standardised rate

Quintile – where the population is divided into five equal groups, with the most deprived 20% (fifth) appearing in the 'most deprived' quintile and so on.



Source: HES

Key points:

• The most deprived 20% of areas (most deprived quintile) in C&P CCG for all ages and under 75s have the highest age standardised rates of hospital admission episodes for respiratory diseases. These rates, 1,970.5 and 1,449.6 per 100,000 respectively, are statistically significantly worse than the C&P CCG average. Rates in the second most deprived quintiles for all ages and under 75s are also statistically significantly worse than the C&P CCG average.

• In contrast, the least deprived two quintiles in C&P CCG for all ages and under 75s have age standardised rates of hospital admission episodes for respiratory diseases that are statistically significantly better (lower) than the C&P CCG average.

Hospital admission episodes for COPD – all admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | | All a | iges | | Under 75s | | | | |
|---------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|--|
| Area | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | CI Lower | Cl Upper | |
| Borderline | 227 | 255.6 | 223.3 | 291.3 | 122 | 145.2 | 120.5 | 173.4 | |
| Borderline Central | 107 | 321.8 | 263.2 | 389.4 | 43 | 130.2 | 94.0 | 175.6 | |
| City | 96 | 301.2 | 243.3 | 368.7 | 54 | 170.8 | 127.8 | 223.5 | |
| City North | 126 | 309.1 | 257.0 | 368.5 | 79 | 205.3 | 162.3 | 256.2 | |
| City South | 78 | 237.8 | 187.6 | 297.3 | 49 | 162.3 | 119.8 | 215.0 | |
| East | 53 | 119.2 | 89.1 | 156.0 | 30 | 72.2 | 48.7 | 103.1 | |
| Fenland | 183 | 352.0 | 302.7 | 407.0 | 97 | 204.5 | 165.8 | 249.6 | |
| Huntingdon Central | 143 | 270.7 | 228.0 | 319.0 | 76 | 151.0 | 118.9 | 189.1 | |
| Isle of Ely | 157 | 208.9 | 177.4 | 244.3 | 92 | 131.8 | 106.2 | 161.6 | |
| North Villages | 103 | 216.6 | 176.5 | 263.1 | 56 | 124.3 | 93.8 | 161.4 | |
| Peterborough City 1 | 185 | 407.1 | 348.6 | 472.3 | 114 | 230.1 | 188.8 | 277.5 | |
| Peterborough City 2 | 92 | 262.7 | 211.1 | 323.0 | 33 | 118.6 | 81.6 | 166.6 | |
| South Villages | 86 | 165.1 | 131.8 | 204.1 | 42 | 83.2 | 59.9 | 112.5 | |
| St Ives | 96 | 182.1 | 147.3 | 222.5 | 52 | 100.7 | 75.2 | 132.0 | |
| St Neots | 149 | 274.7 | 232.1 | 322.8 | 74 | 136.6 | 107.2 | 171.5 | |
| Wisbech | 189 | 379.9 | 327.5 | 438.3 | 115 | 252.5 | 208.4 | 303.2 | |
| C&P CCG | 2,070 | 261.3 | 250.2 | 272.9 | 1,128 | 149.9 | 141.2 | 158.9 | |

Note: COPD definition includes ICD10 codes J40-J44. DASR – Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

- In 2017/18 there were just over 2,000 hospital admission episodes for COPD (all ages) across C&P CCG, this equates to an age standardised rate of 261.3 per 100,000 population.
- In 2017/18 there were just over 1,100 hospital admission episodes for COPD (under 75s) across C&P CCG, this is an age standardised rate of 149.9 per 100,000 population.
- The rate of hospital admissions varies across the neighbourhood team areas.
- Fenland, Peterborough City 1, and Wisbech have levels of hospital admission episodes for COPD which are statistically significantly higher (worse) than the C&P CCG average for all ages and under 75s.
- City North has levels of hospital admission episodes for COPD which are statistically significantly higher (worse) than the C&P CCG average for under 75s.

Hospital admission episodes for COPD – elective admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | | All a | ges | | Under 75s | | | |
|---------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|
| Area | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | CI Lower | CI Upper |
| Borderline | 13 | 14.8 | 7.8 | 25.4 | - | 6.9 | 2.5 | 15.0 |
| Borderline Central | - | 5.6 | 0.6 | 20.3 | - | 6.2 | 0.7 | 22.3 |
| City | 12 | 34.8 | 17.6 | 61.4 | 9 | 26.0 | 11.6 | 49.8 |
| City North | - | 13.1 | 4.5 | 28.9 | - | 8.7 | 2.1 | 22.6 |
| City South | 7 | 19.2 | 7.3 | 40.3 | - | 17.1 | 5.8 | 38.1 |
| East | 8 | 19.0 | 8.2 | 37.5 | - | 9.7 | 2.6 | 24.8 |
| Fenland | 20 | 38.8 | 23.6 | 59.9 | 15 | 31.9 | 17.8 | 52.6 |
| Huntingdon Central | 12 | 22.2 | 11.4 | 38.9 | 8 | 15.7 | 6.8 | 31.0 |
| Isle of Ely | 29 | 38.5 | 25.8 | 55.4 | 23 | 33.2 | 21.0 | 49.8 |
| North Villages | 17 | 37.6 | 21.8 | 60.3 | 9 | 20.0 | 9.1 | 38.0 |
| Peterborough City 1 | - | 14.1 | 4.9 | 31.2 | - | 9.0 | 2.3 | 23.3 |
| Peterborough City 2 | - | 5.8 | 0.6 | 21.1 | - | 3.5 | 0.0 | 19.7 |
| South Villages | 8 | 14.7 | 6.3 | 29.0 | 7 | 13.7 | 5.5 | 28.3 |
| St Ives | 13 | 23.2 | 12.3 | 39.8 | 11 | 20.9 | 10.4 | 37.4 |
| St Neots | 22 | 40.8 | 25.5 | 61.9 | 11 | 20.7 | 10.3 | 37.1 |
| Wisbech | 10 | 19.8 | 9.5 | 36.5 | 8 | 17.8 | 7.6 | 35.1 |
| C&P CCG | 187 | 23.4 | 20.2 | 27.0 | 128 | 16.7 | 14.0 | 19.9 |

Note: COPD definition includes ICD10 codes J40-J44. DASR – Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

- In 2017/18 there were 187 elective hospital admission episodes for COPD (all ages) across C&P CCG, this equates to an age standardised rate of 23.4 per 100,000 population.
- In 2017/18 there were 128 elective hospital admission episodes for COPD (under 75s) across C&P CCG, this is an age standardised rate of 16.7 per 100,000 population.
- Small numbers of elective hospital admissions for COPD mean that the rates generally do
 not vary significantly from the C&P CCG average at a neighbourhood team area level for all
 ages and under 75s, except for Isle of Ely where the levels are statistically significantly higher
 (worse) than the C&P CCG average for under 75s.

Hospital admission episodes for COPD – emergency admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | All ages | | | | Under 75s | | | |
|---------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|
| Area | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | CI Lower | CI Upper |
| Borderline | 211 | 237.7 | 206.6 | 272.2 | 113 | 134.9 | 111.1 | 162.2 |
| Borderline Central | 105 | 316.2 | 258.1 | 383.3 | 41 | 124.0 | 88.8 | 168.5 |
| City | 83 | 263.3 | 209.2 | 327.0 | 45 | 144.8 | 105.2 | 194.2 |
| City North | 118 | 291.4 | 240.8 | 349.4 | 75 | 196.7 | 154.5 | 246.7 |
| City South | 71 | 218.7 | 170.5 | 276.1 | 43 | 145.2 | 104.9 | 195.7 |
| East | 45 | 100.1 | 72.9 | 134.1 | 26 | 62.5 | 40.8 | 91.6 |
| Fenland | 158 | 303.1 | 257.5 | 354.3 | 80 | 168.3 | 133.4 | 209.6 |
| Huntingdon Central | 128 | 243.0 | 202.6 | 289.0 | 66 | 131.6 | 101.7 | 167.5 |
| Isle of Ely | 121 | 161.1 | 133.6 | 192.6 | 62 | 88.4 | 67.8 | 113.4 |
| North Villages | 84 | 175.3 | 139.6 | 217.4 | 46 | 102.1 | 74.7 | 136.2 |
| Peterborough City 1 | 179 | 393.0 | 335.6 | 457.0 | 110 | 221.1 | 180.7 | 267.6 |
| Peterborough City 2 | 90 | 256.9 | 205.9 | 316.6 | 32 | 115.1 | 78.7 | 162.5 |
| South Villages | 78 | 150.4 | 118.7 | 187.9 | 35 | 69.5 | 48.3 | 96.7 |
| St Ives | 83 | 158.8 | 126.4 | 197.0 | 41 | 79.8 | 57.2 | 108.3 |
| St Neots | 126 | 231.9 | 192.9 | 276.3 | 63 | 115.9 | 89.0 | 148.3 |
| Wisbech | 177 | 355.8 | 305.2 | 412.5 | 105 | 230.0 | 188.1 | 278.5 |
| C&P CCG | 1,857 | 234.8 | 224.2 | 245.7 | 983 | 131.0 | 122.9 | 139.4 |

Note: COPD definition includes ICD10 codes J40-J44. DASR - Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

- In 2017/18 there were just over 1,850 emergency hospital admission episodes for COPD (all ages) across C&P CCG, this equates to an age standardised rate of 224.8 per 100,000 population.
- In 2017/18 there were just over 980 emergency hospital admission episodes for COPD (under 75s) across C&P CCG, this is an age standardised rate of 131.0 per 100,000 population.
- The rate of hospital admissions varies across the neighbourhood team areas.
- Peterborough City 1 and Wisbech have levels of emergency hospital admission episodes for COPD which are statistically significantly higher (worse) than the C&P CCG average for all ages and under 75s.
- Borderline has levels of emergency hospital admission episodes for COPD which are statistically significantly higher (worse) than the C&P CCG average for all ages.
- City North has levels of emergency hospital admission episodes for COPD which are statistically significantly higher (worse) than the C&P CCG average for under 75s.

Hospital admission episodes for COPD – all admissions, Cambridgeshire and Peterborough CCG, 2013/14 - 2017/18



Note: COPD definition includes ICD10 codes J40-J44. DASR - Directly age standardised rate

Statistically significantly better than the C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than the C&P CCG average

Source: HES

Key points:

- The rate of hospital admissions varies across the neighbourhood team areas.
- Fenland, Peterborough City 2, and Wisbech have levels of hospital admission episodes for COPD (all ages) that are statistically significantly higher than the C&P CCG average in 2017/18. Overall, these neighbourhood team areas appear to have consistently higher levels over recent years.

Hospital admission episodes for COPD by deprivation quintile – all admissions, Cambridgeshire and Peterborough CCG, 2017/18

| | | All a | ages | | Under 75s | | | |
|----------------------|----------|---------------------|----------|----------|-----------|---------------------|----------|----------|
| Deprivation quintile | Episodes | DASR per 100,000 | CI Lower | CI Upper | Episodes | DASR per 100,000 | CI Lower | CI Upper |
| 1 - Most deprived | 730 | | 333.6 | 386.6 | 403 | 210.0 | 190.0 | 231.6 |
| 2 | 437 | 303.0 | 275.1 | 332.9 | 253 | 187.3 | 164.9 | 211.9 |
| 3 | 380 | 259.3 | 233.8 | 286.9 | 177 | 121.5 | 104.2 | 140.8 |
| 4 | 246 | 203.7 | 179.0 | 230.9 | 146 | 129.0 | 108.9 | 151.7 |
| 5 - Least deprived | 277 | 156.8 | 138.8 | 176.4 | 149 | 89.3 | 75.5 | 104.8 |
| C&P CCG | 2,070 | 261.3 | 250.2 | 272.9 | 1,128 | 149.9 | 141.2 | 158.9 |

 $Notes: COPD\ definition\ includes\ ICD10\ codes\ J40-J44.\ DASR-Directly\ age\ standardised\ rate.$

Quintile – where the population is divided into five equal groups, with the most deprived 20% (fifth) appearing in the 'most deprived' quintile and so on.



Source: HES

Key points:

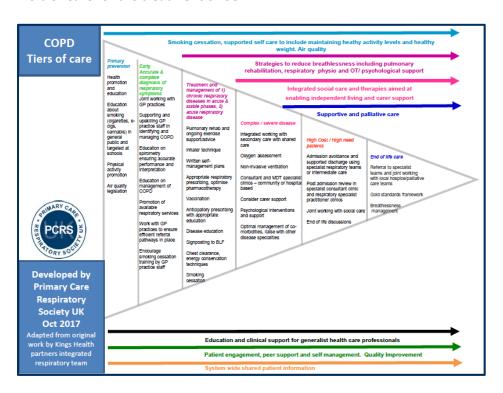
 The least deprived 20% of areas (most deprived quintile) in C&P CCG for all ages and under 75s have the lowest age standardised rates of hospital admission episodes for COPD in the area. These rates, 156.8 and 89.3 per 100,000 respectively, are statistically significantly below the C&P CCG average. The most deprived two quintiles in C&P CCG for all ages and under 75s have age standardised rates of hospital admission episodes for COPD that are statistically significantly higher than the C&P CCG average.

RightCare Pathway: COPD

NHS RightCare provide national recommendations and resources for management of COPD. It is recommended that commissioners ensure early detection and accurate diagnosis of COPD, and that opportunities for long-term management are optimised to reduce exacerbations, hospital admission, and any premature mortality. Management is required to be system wide for most effectiveness and efficiency.³⁴

The Tiers of Care model highlights the care pathway for COPD. Additional information and guidelines for the individual steps of the pathway can be found on the NHS website³⁵.

Tiers of Care for the treatment of COPD



Source: NHS RightCare Pathway: COPD

³⁴ RightCare Pathway: COPD [online] Available at: https://www.england.nhs.uk/rightcare/wp-content/uploads/sites/40/2017/12/nhs-rightcare-copd-pathway-v18.pdf

NHS Rightcare Commissioning for value – Respiratory (April 2016)³⁶

The COPD and asthma pathways in the Respiratory Commissioning for Value pack identifies indicators and where the performance of the C&P CCG varies from the average of its most similar 10 CCGs.

The 10 most similar CCGs demographically to C&P CCG according to NHS Rightcare are;

Oxfordshire

East and North Hertfordshire

Nene

Herts Valleys

Dorset

 North, East, West Devon Gloucestershire

Somerset

Southern Derbyshire

West Hampshire

For C&P CCG, the COPD pathway indicators where the C&P CCG has 'worse' values than the 10 peer CCGs are:

- % of COPD patients with a record of FEV1 (statistically significant)
- Non-elective spend (statistically significant)
- <75 mortality from bronchitis, emphysema and COPD (not statistically significant)

For C&P CCG, the asthma pathway indicator where the C&P CCG has a 'worse' value than the 10 CCG

Mortality from asthma all years.

These, along with other indicators, may be areas to explore possible opportunities for improvement.

The NHS Rightcare Commissioning for value Respiratory report details indicators of interest relating to spend, admissions, and procedures for the C&P CCG compared to the collective average of the best 5 peer CCGs. Highlights include (but are not limited to);

- Respiratory spend in C&P CCG is statistically significantly higher per 1,000 (age-sex weighted) population compared to the best 5.
- Respiratory day case admissions per 100,000 age-sex weighted population are statistically significantly higher in C&P CCG compared to the best 5.
- The number of emergency admissions for asthma per 100,000 age-sex weighted children are statistically significantly higher in C&P CCG compared to the best 5.
- The number of day case admissions for 'chronic upper respiratory', 'chronic lower respiratory', and 'influenza and pneumonia' per 100,000 age-sex weighted population are statistically significantly higher in C&P CCG compared to the best 5.
- The number of emergency admissions by children and by adults for acute lower respiratory per 100,000 age-sex weighted population is statistically significantly higher in C&P CCG compared to the best 5.
- The average elective length of stay (not including day cases) for chronic lower respiratory is statistically significantly higher in C&P CCG compared to the best 5.
- The average emergency length of stay for 'influenza and pneumonia', 'lung diseases due to external agents', and 'other diseases of the respiratory system' are statistically significantly higher in C&P CCG compared to the best 5.
- Respiratory primary care prescribing spend is higher in C&P CCG compared to the best 5 for several treatments.

³⁶ NHS Rightcare Commissioning for Value Focus Pack; Respiratory April 2016, PHE, NHS England (online) Available from: https://www.england.nhs.uk/rightcare/products/ccg-data-packs/focus-packs/focus-packs-for-cvd-neurological-respiratorymaternity-april-2016/

• The cost of several individual procedures relating to asthma and obstructive airways disease per 100,000 age-sex weighted population are statistically significantly higher in C&P CCG compared to the best 5.

Additional data sources

Respiratory Focus Pack Tool, Public Health England (2016)

Public Health England's Respiratory Focus Pack Tool, available online, contains a wealth of information of respiratory related indicators, many of which are covered in other areas of this report. Indicators are presented in an interactive mapping tool.³⁷

National Institute for Clinical Excellence (NICE) guidelines for COPD (Dec 2018)

The **Chronic obstructive pulmonary disease in over 16s: diagnosis and management** guideline covers diagnosing and managing COPD, which includes emphysema and chronic bronchitis. It aims to help people with COPD to receive a diagnosis earlier so that they can benefit from treatments to reduce symptoms, improve quality of life and keep them healthy for longer.³⁸

³⁷ Respiratory Focus Pack Tool, Public Health England (online) Available at: http://tools.england.nhs.uk/cfv2016/respiratory/atlas.html

³⁸ Chronic obstructive pulmonary disease in over 16s: diagnosis and management (online) Available at: https://www.nice.org.uk/guidance/NG115

Mortality

Respiratory disease is one of the main causes of death for Cambridgeshire and Peterborough residents, accounting for 2,825 deaths in 2015-17 (13% of all C&P CCG deaths).³⁹

Data indicates that deaths where asthma is identified as the underlying cause are small in numbers, therefore asthma has not been included in this section.⁴⁰

Deaths from Respiratory Disease

Number of deaths with Respiratory disease as the primary cause of death, all ages, by AEP Neighbourhood Team, C&P CCG

| Neighbourhood team | Respiratory di | sease as unde | rlying cause o | 2015-17 DASR per 100,000 | | | | |
|---------------------|----------------|---------------|----------------|--------------------------|---------|-------|-------|-------|
| | 2011-13 | 2012-14 | 2013-15 | 2014-16 | 2015-17 | DASR | CI LL | CIUL |
| Borderline | 361 | 364 | 370 | 371 | 380 | 145.4 | 131.1 | 160.9 |
| Borderline Central | 108 | 113 | 114 | 115 | 135 | 140.0 | 117.1 | 166.1 |
| City | 60 | 61 | 60 | 58 | 82 | 83.6 | 66.4 | 104.0 |
| City North | 181 | 172 | 147 | 131 | 142 | 98.9 | 83.1 | 116.8 |
| City South | 123 | 118 | 103 | 93 | 91 | 85.1 | 68.4 | 104.7 |
| East | 82 | 87 | 94 | 102 | 103 | 76.2 | 62.2 | 92.5 |
| Fenland | 176 | 188 | 207 | 213 | 217 | 141.3 | 123.0 | 161.4 |
| Huntingdon Central | 242 | 232 | 241 | 225 | 246 | 161.4 | 141.9 | 183.0 |
| Isle of Ely | 173 | 161 | 168 | 165 | 188 | 89.1 | 76.8 | 102.9 |
| North Villages | 151 | 152 | 170 | 178 | 179 | 115.4 | 99.0 | 133.8 |
| Peterborough City 1 | 181 | 166 | 162 | 163 | 170 | 146.2 | 124.6 | 170.5 |
| Peterborough City 2 | 164 | 185 | 179 | 169 | 163 | 148.0 | 125.9 | 172.8 |
| South Villages | 106 | 101 | 121 | 128 | 138 | 94.2 | 79.1 | 111.4 |
| St Ives | 126 | 140 | 159 | 166 | 173 | 119.0 | 101.9 | 138.2 |
| St Neots | 169 | 174 | 174 | 164 | 178 | 122.8 | 105.3 | 142.4 |
| Wisbech | 196 | 198 | 195 | 216 | 240 | 164.2 | 144.0 | 186.5 |
| C&P CCG | 2,600 | 2,611 | 2,665 | 2,657 | 2,825 | 122.0 | 117.5 | 126.6 |

Note: Respiratory definition includes ICD10 codes J00-J99. DASR = Directly Age Standardised Rate. CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance.

Statistically significantly better than C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than C&P CCG average

Source: PCMD.

- In the period 2015-17 2,825 deaths were recorded with respiratory disease as the underlying cause for all ages in C&P CCG, an increase of 168 compared to the period 2014-16.
- The neighbourhood teams with the highest number of respiratory disease related deaths in 2015-17 are Borderline (380) and Huntingdon Central (246).
- The neighbourhood teams with rates of respiratory disease related deaths statistically significantly higher than the C&P CCG average in 2015-17 are Borderline, Huntingdon Central and Wisbech.

³⁹ Cambridgeshire County Council Public Health Intelligence (NHS Digital Primary Care Mortality Database, ONS mid-year population estimates).

⁴⁰ PCMD

Number of deaths with Respiratory disease as the primary cause of death, under 75 years, by AEP Neighbourhood Team, C&P CCG

| Neighbourhood team | Respiratory d | erlying cause o | 2015-17 DASR per 100,000 | | | | | |
|---------------------|---------------|-----------------|--------------------------|---------|---------|------|------|-------|
| | 2011-13 | 2012-14 | 2013-15 | 2014-16 | 2015-17 | DASR | CILL | CI UL |
| Borderline | 69 | 67 | 61 | 75 | 77 | 32.3 | 25.5 | 40.4 |
| Borderline Central | 20 | 26 | 31 | 34 | 42 | 42.1 | 30.1 | 57.0 |
| City | 9 | 11 | 10 | 9 | 16 | 17.7 | 10.0 | 28.9 |
| City North | 26 | 26 | 25 | 25 | 22 | 19.0 | 11.8 | 28.8 |
| City South | 12 | 10 | 8 | 12 | 16 | 18.7 | 10.7 | 30.5 |
| East | 21 | 19 | 25 | 26 | 29 | 23.8 | 15.9 | 34.2 |
| Fenland | 36 | 39 | 41 | 51 | 56 | 40.0 | 30.2 | 52.0 |
| Huntingdon Central | 54 | 48 | 44 | 43 | 53 | 35.8 | 26.8 | 46.8 |
| Isle of Ely | 21 | 29 | 40 | 44 | 47 | 23.7 | 17.4 | 31.5 |
| North Villages | 20 | 13 | 20 | 22 | 30 | 23.3 | 15.7 | 33.2 |
| Peterborough City 1 | 59 | 46 | 52 | 48 | 51 | 36.0 | 26.4 | 47.8 |
| Peterborough City 2 | 28 | 32 | 34 | 35 | 29 | 34.8 | 23.3 | 50.0 |
| South Villages | 15 | 11 | 14 | 18 | 22 | 15.1 | 9.4 | 22.9 |
| St Ives | 32 | 29 | 30 | 29 | 32 | 21.2 | 14.5 | 30.0 |
| St Neots | 39 | 39 | 34 | 32 | 35 | 22.4 | 15.6 | 31.2 |
| Wisbech | 49 | 44 | 45 | 53 | 65 | 48.6 | 37.5 | 61.9 |
| C&P CCG | 510 | 489 | 514 | 556 | 622 | 28.6 | 26.4 | 31.0 |

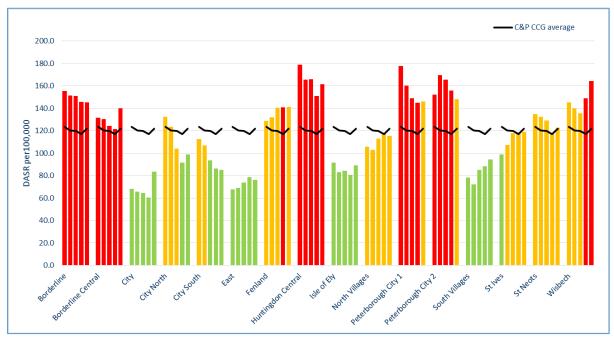
Note: Respiratory definition includes ICD10 codes J00-J99. DASR = Directly Age Standardised Rate. CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance.

Statistically significantly better than C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than C&P CCG average

Source: PCMD.

- In the period 2015-17 622 deaths were recorded with respiratory disease as the underlying cause for under 75 year olds in C&P CCG, an increase of 66 compared to the period 2014-16.
- The neighbourhood teams with the highest number of respiratory disease related deaths in under 75 year olds in 2015-17 are Borderline (77) and Wisbech (65).
- The only neighbourhood team with a rate of respiratory disease related deaths in under 75 year olds that is statistically significantly higher than the C&P CCG average in 2015-17 is Wisbech.

Rate of deaths where Respiratory Disease is the underlying cause of death, all ages, by neighbourhood team, 2011-2013 to 2015-17 (DASR per 100,000)



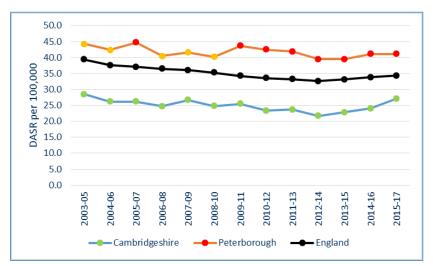
Note: Respiratory definition includes ICD10 codes J00-J99. DASR = Directly Age Standardised Rate.

Statistically significantly better than C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than C&P CCG average

Source: PCMD.

- The rate of deaths recorded with respiratory disease as the underlying cause for all ages in C&P CCG varies between neighbourhood team.
- Borderline, Borderline Central, Huntingdon Central, Peterborough City 1 and Peterborough
 City 2 have predominantly had rates that are statistically significantly higher than the C&P
 CCG average since 2011-13.
- Wisbech has seen an increase in the rate of respiratory related deaths to levels that are statistically significantly worse than C&P CCG average.

Under 75 mortality rate from respiratory disease (persons), 2003-2005 to 2015-17 (DASR per 100,000)



Note: Respiratory definition includes ICD10 codes J00-J99. DASR = Directly Age Standardised Rate. Data not available for C&P CCG level.

Statistically significantly better than England average
Statistically similar to England average
Statistically significantly worse than England average

Source: PHOF indicator 4.07i, Public Health England (based on ONS source data)

Key points:

• The rate of deaths recorded with respiratory disease as the underlying cause for under 75 year olds in C&P CCG varies between Cambridgeshire and Peterborough.

- Rates in Cambridgeshire have been statistically significantly better than the England average since 2003-05.
- Rates in Peterborough have been statistically significantly worse than the England average since 2009-11.

Additional analysis (data not shown)⁴¹:

- **District level data:** Analysis of PHOF indicator 4.07i at a district level also identifies that for 2015-17 the rate of deaths recorded with respiratory disease as the underlying cause for under 75 year olds in Fenland is statistically significantly worse than the England average (42.9 per 100,000 compared to 34.3 per 100,000) (all other Cambridgeshire districts are statistically significantly better for this period).
- Males: Analysis of PHOF indicator 4.07i at a district level by sex also identifies that for 201517 the rate of deaths recorded with respiratory disease as the underlying cause for males
 aged under 75 year old in Fenland is statistically significantly worse than the England
 average (52.4 per 100,000 compared to 39.9 per 100,000) (all other Cambridgeshire districts,
 and Peterborough, are statistically significantly better for males for this period).
- Females: Analysis of PHOF indicator 4.07i at a district level by sex also identifies that for 2015-17 the rate of deaths recorded with respiratory disease as the underlying cause for females aged under 75 year old are statistically similar to the England average for all Cambridgeshire districts and Peterborough except South Cambridgeshire, which is assessed as statistically significantly better for females for this period).

⁴¹ PHOF indicator 4.07i available at https://fingertips.phe.org.uk/profile/public-health-outcomes-framework

Deaths from COPD

Number of deaths with COPD as the primary cause of death, all ages, by AEP Neighbourhood Team, C&P CCG

| Neighbourhood team | COPD | as underlying | cause of death | 2015-17 DASR per 100,000 | | | | |
|---------------------|---------|---------------|----------------|--------------------------|---------|------|-------|------|
| | 2011-13 | 2012-14 | 2013-15 | 2014-16 | 2015-17 | DASR | CI LL | CIUL |
| Borderline | 113 | 128 | 129 | 135 | 132 | 50.2 | 42.0 | 59.6 |
| Borderline Central | 44 | 43 | 45 | 44 | 57 | 58.7 | 44.3 | 76.2 |
| City | 19 | 19 | 22 | 23 | 36 | 37.8 | 26.4 | 52.4 |
| City North | 60 | 56 | 47 | 45 | 50 | 35.6 | 26.3 | 47.1 |
| City South | 42 | 37 | 29 | 25 | 30 | 29.4 | 19.7 | 42.1 |
| East | 27 | 29 | 32 | 42 | 38 | 28.8 | 20.4 | 39.6 |
| Fenland | 60 | 70 | 81 | 95 | 95 | 61.0 | 49.3 | 74.6 |
| Huntingdon Central | 89 | 91 | 96 | 88 | 101 | 65.5 | 53.3 | 79.6 |
| Isle of Ely | 62 | 62 | 68 | 71 | 74 | 34.6 | 27.1 | 43.5 |
| North Villages | 47 | 44 | 53 | 53 | 54 | 36.5 | 27.3 | 47.7 |
| Peterborough City 1 | 65 | 61 | 62 | 68 | 73 | 63.8 | 49.8 | 80.4 |
| Peterborough City 2 | 53 | 63 | 63 | 61 | 59 | 53.0 | 40.2 | 68.6 |
| South Villages | 41 | 33 | 43 | 50 | 56 | 37.9 | 28.6 | 49.3 |
| St Ives | 49 | 51 | 49 | 51 | 52 | 34.5 | 25.7 | 45.3 |
| St Neots | 70 | 65 | 55 | 61 | 78 | 51.9 | 41.0 | 64.9 |
| Wisbech | 81 | 88 | 87 | 94 | 102 | 68.6 | 55.9 | 83.3 |
| C&P CCG | 922 | 940 | 961 | 1,006 | 1,087 | 46.7 | 44.0 | 49.6 |

Note: COPD definition includes ICD10 codes J40-J44. DASR = Directly Age Standardised Rate. CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance.



Source: PCMD.

- In the period 2015-17 1,087 deaths were recorded with COPD as the underlying cause for all ages in C&P CCG, an increase of 81 compared to the period 2014-16.
- The number of deaths from this cause has increased yearly in C&P CCG since 2009-11.
- The neighbourhood teams with the highest number of COPD related deaths are Borderline (132), Wisbech (102) and Huntingdon Central (101).
- The neighbourhood teams with rates of COPD related deaths statistically significantly higher than the C&P CCG average in 2015-17 are Huntingdon Central, Peterborough City 1, and Wisbech.

Number of deaths with COPD as the primary cause of death, under 75 years, by AEP Neighbourhood Team, C&P CCG

| Neighbourhood team | COPD a | s underlying c | ause of death | 2015-17 DASR per 100,000 | | | | |
|---------------------|---------|----------------|---------------|--------------------------|---------|------|-------|------|
| | 2011-13 | 2012-14 | 2013-15 | 2014-16 | 2015-17 | DASR | CI LL | CIUL |
| Borderline | 36 | 38 | 35 | 39 | 41 | 17.4 | 12.5 | 23.7 |
| Borderline Central | 13 | 15 | 15 | 15 | 19 | 19.1 | 11.4 | 29.8 |
| City | 6 | 7 | 5 | 4 | 9 | 10.6 | 4.8 | 20.2 |
| City North | 14 | 16 | 13 | 12 | 10 | 8.7 | 4.1 | 16.1 |
| City South | 7 | 7 | 4 | 7 | 10 | 12.0 | 5.8 | 22.1 |
| East | 10 | 9 | 16 | 19 | 20 | 16.4 | 10.0 | 25.3 |
| Fenland | 15 | 16 | 23 | 35 | 38 | 27.0 | 19.1 | 37.1 |
| Huntingdon Central | 30 | 24 | 23 | 22 | 29 | 19.6 | 13.1 | 28.1 |
| Isle of Ely | 12 | 14 | 19 | 22 | 25 | 12.6 | 8.1 | 18.6 |
| North Villages | 7 | 3 | 7 | 10 | 15 | 11.8 | 6.6 | 19.4 |
| Peterborough City 1 | 24 | 22 | 25 | 23 | 21 | 16.9 | 10.3 | 26.0 |
| Peterborough City 2 | 14 | 18 | 19 | 18 | 16 | 19.1 | 10.9 | 31.0 |
| South Villages | 10 | 5 | 5 | 11 | 12 | 8.4 | 4.3 | 14.6 |
| St Ives | 10 | 8 | 10 | 12 | 17 | 11.1 | 6.5 | 17.8 |
| St Neots | 23 | 21 | 16 | 18 | 24 | 15.4 | 9.8 | 22.9 |
| Wisbech | 26 | 29 | 29 | 39 | 43 | 31.9 | 23.1 | 43.0 |
| C&P CCG | 257 | 252 | 264 | 306 | 349 | 16.2 | 14.6 | 18.0 |

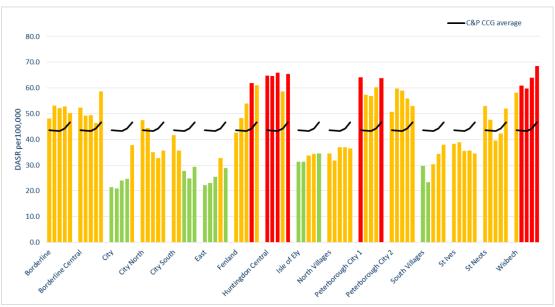
Note: COPD definition includes ICD10 codes J40-J44. DASR = Directly Age Standardised Rate. CI lower/upper – Confidence Intervals (95%) lower and upper limits to determine statistical significance.

Statistically significantly better than C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than C&P CCG average

Source: PCMD.

- In the period 2015-17, 349 deaths were recorded with COPD as the underlying cause for under 75 year olds in C&P CCG, an increase of 43 compared to the period 2014-16.
- The neighbourhood teams with the highest number of COPD related deaths in under 75 year olds in 2015-17 are Wisbech (43), Borderline (41), and Fenland (38).
- The neighbourhood teams with rates of COPD related deaths in under 75 year olds that are statistically significantly higher than the C&P CCG average in 2015-17 are Fenland and Wisbech.

Rate of deaths where COPD is the underlying cause of death, (DASR per 100,000), all age, 2011-13 to 2015-17.



Note: COPD definition includes ICD10 codes J40-J44. DASR = Directly Age Standardised Rate.

Statistically significantly better than C&P CCG average
Statistically similar to the C&P CCG average
Statistically significantly worse than C&P CCG average

Source: PCMD.

- The rate of deaths recorded with COPD as the underlying cause for all ages in C&P CCG varies between neighbourhood team.
- Huntingdon Central and Wisbech have predominantly had rates that are statistically significantly higher than the C&P CCG average since 2011-13.
- Several neighbourhood teams have an upward trend. This is more notable for Fenland, Peterborough City 1 and Wisbech in recent years. Borderline Central also has a much higher rate in the last year (2015-17) compared to previous years.
- Although statistical significance hasn't changed, the rates for Borderline Central and St Neots appear to have had a spike in 2015-17. City has also seen a spike in 2015-17 and is assessed as statistically similar to C&P CCG in 2015-17.