Supplementary information

Algorithms

1. Specific COPD code and more than one prescription of a COPD medication and presence of spirometry. The first COPD medication had to be prescribed within 4 weeks of the COPD diagnostic code.
2. Specific COPD code and presence of spirometry
3. Specific COPD code and more than one prescription of a COPD medication. The first COPD medication had to be prescribed within 4 weeks of the COPD diagnostic code.
4. Specific COPD code only
5. Non-specific bronchitis codes and more than one prescription of a COPD medication. The first COPD medication had to be prescribed within 4 weeks of the COPD diagnostic code.
6. Non-specific bronchitis codes only
7. Respiratory symptoms and presence of spirometry. Respiratory symptoms consisted of persistent cough, sputum production, or dyspnoea
8. Respiratory symptom definition only

Specific COPD codes

<table>
<thead>
<tr>
<th>medcode</th>
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<tr>
<td>18476</td>
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<td>794</td>
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<td>998</td>
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**COPD medication codes**

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<td>salbutamol 100micrograms/dose inhaler cfc free</td>
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<td>31</td>
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<td>beclometasone 100micrograms/dose inhaler</td>
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<td>99</td>
<td>becotide 100 inhaler (glaxosmithkline uk ltd)</td>
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<td>aminophylline 100 mg cap</td>
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<td>235</td>
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<td>theophylline 200 mg cap</td>
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<tr>
<td>465</td>
<td>salmeterol 25micrograms/dose inhaler</td>
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<td>serevent 25micrograms/dose inhaler (glaxosmithkline uk ltd)</td>
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<td>budesonide 200micrograms/dose inhaler</td>
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salamol easi-breathe 100microgram/actuation pressurised inhalation (ivax pharmaceuticals uk ltd)
ventolin easi-breathe 100microgram/actuation pressurised inhalation (allen & hanburys ltd)
budesonide 50micrograms/dose inhaler
pulmicort 100 turbohaler (astrazeneca uk ltd)
ventolin 4mg tablet (allen & hanburys ltd)
salamol 100microgram/actuation inhalation powder (ivax pharmaceuticals uk ltd)
slo-phyllin 60mg capsule (lipha pharmaceuticals ltd)
beclazone 100 inhaler (teva uk ltd)
becloforte 250micrograms/dose inhaler (glaxosmithkline uk ltd)
beclometasone 250micrograms/dose inhaler
beclzone 250 easi-breathe inhaler (teva uk ltd)
becotide 200 inhaler (glaxosmithkline uk ltd)
beclometasone 200micrograms/dose inhaler
becotide 50microgram/ml nebuliser liquid (allen & hanburys ltd)
salbutamol 0.05mg/ml injection
becotide 50 inhaler (glaxosmithkline uk ltd)
ipratropium bromide 20micrograms/dose inhaler
ipratropium bromide 0.25mg/ml
flixotide 250microgram/actuation inhalation powder (allen & hanburys ltd)
salamol 5mg/2.5ml nebuliser liquid steri-neb unit dose vials (teva uk ltd)
steri-neb ipratropium 250microgram/ml nebuliser liquid (ivax pharmaceuticals uk ltd)
uniphyllin continus 200mg tablets (napp pharmaceuticals ltd)
flixotide 250microgram disc (allen & hanburys ltd)
flixotide 500microgram disc (allen & hanburys ltd)
flixotide 50microgram/actuation inhalation powder (allen & hanburys ltd)
becotide 200microgram rotacaps (glaxosmithkline uk ltd)
beclzone 250 inhaler (teva uk ltd)
becloforte easi-breathe 250microgram/actuation pressurised inhalation (allen & hanburys ltd)
terbutaline 500micrograms/dose dry powder inhaler
terbutaline 250micrograms/dose inhaler
terbutaline 250micrograms/actuation refill canister
salbutamol 2.5mg/2.5ml nebuliser liquid unit dose vials
salbuvent 2mg/5ml oral solution (pharmacia ltd)
budesonide 400micrograms/dose dry powder inhaler
flixotide 125microgram/actuation inhalation powder (allen & hanburys ltd)
pulmicort ls 50micrograms/dose inhaler (astrazeneca uk ltd)
salbutamol 100micrograms/dose breath actuated inhaler
salbutamol 5mg/2.5ml nebuliser liquid unit dose vials
beclzone 50 easi-breathe inhaler (teva uk ltd)
becotide easi-breathe 50microgram/actuation pressurised inhalation (allen & hanburys ltd)
beclometasone 100micrograms/dose breath actuated inhaler
salbutamol 100micrograms/dose breath actuated inhaler cfc free
theophylline 200mg modified-release tablets
theophylline 400mg modified-release tablets
aerobec 100 autohaler (meda pharmaceuticals ltd)
ventodisks 200microgram/blister disc (allen & hanburys ltd)
beclzone 200 inhaler (teva uk ltd)
ventodisks 400microgram/blister disc (allen & hanburys ltd)
becodisks 400microgram disc (allen & hanburys ltd)
ventolin 400microgram rotacaps (glaxosmithkline uk ltd)
1956  pulmicort 1mg respules (astrazeneca uk ltd)
1957  ventolin 5mg nebules (glaxosmithkline uk ltd)
1959  pulmicort 0.5mg respules (astrazeneca uk ltd)
1972  oxygen bp size af lightweight gas 1360 litres
1974  oxis 12 turbohaler (astrazeneca uk ltd)
1975  oxis 6 turbohaler (astrazeneca uk ltd)
2044  prednisone 2.5 mg tab
2092  budesonide 200micrograms/dose dry powder inhaler
2124  pulmicort refill 200 mcg inh
2125  pulmicort 200microgram refill canister (astrazeneca uk ltd)
2147  theophylline 250mg modified-release capsules
2148  beclometasone 400microgram disc
2149  steri-neb salamol 2.5 mg inh
2152  ipratropium bromide with salbutamol 20mcg + 100mcg
2159  aerobec 50 autohaler (meda pharmaceuticals ltd)
2160  beclometasone 50micrograms/dose breath actuated inhaler
2224  serevent 50micrograms/dose accuhaler (glaxosmithkline uk ltd)
2229  becodisks 100microgram disc (allen & hanburys ltd)
2282  fluticasone 500micrograms/dose dry powder inhaler
2335  qvar 100 inhaler (teva uk ltd)
2368  prednisolone 2.5mg tablet
2390  prednisolone e/c 1 mg tab
2395  salbutamol 2 mg/5ml syr
2437  oxitropium bromide 100micrograms/dose inhaler
2440  flixotide accuhaler 500 500microgram/inhalation inhalation powder (allen & hanburys ltd)
2510  oxygen bp gas 1280 litres
2600  beclometasone 250micrograms/dose breath actuated inhaler
2655  airomir 100micrograms/dose inhaler (teva uk ltd)
2723  fluticasone 25micrograms/dose inhaler
2757  slo-phyllin 250mg capsule (lipha pharmaceuticals ltd)
2758  bricanyl refill canister (astrazeneca uk ltd)
2799  prednisolone 10 mg tab
2850  salbutamol 400microgram inhalation powder capsules
2851  ventolin 200microgram rotacaps (glaxosmithkline uk ltd)
2869  salbutamol 8mg modified-release tablets
2892  becloforte 400microgram disks (glaxosmithkline uk ltd)
2893  beclometasone 200micrograms disc
2949  prednisone 5mg tablets
2951  fluticasone 250microgram/actuation pressurised inhalation
2978  salbutamol 200micrograms/dose dry powder inhaler
2992  beclazone 50 inhaler (teva uk ltd)
2995  nuelin sa 175mg tablets (meda pharmaceuticals ltd)
3018  beclometasone 50micrograms/dose inhaler
3059  prednisolone 50 mg tab
3065  bextasol inhalation powder (allen & hanburys ltd)
3075  becotide 400microgram rotacaps (glaxosmithkline uk ltd)
3119  becloforte integra 250microgram/actuation inhaler with compact spacer (glaxo laboratories ltd)
3150  beclometasone 100micrograms/actuation extrafine particle cfc free inhaler
3163  salbutamol 200micrograms disc
3188  pulmicort complete 50 mcg inh
3189  salbuvent inh inh
3220  qvar 50 autohaler (teva uk ltd)
3254  salbulin 4mg tablet (3m health care ltd)
flixotide 25micrograms/dose inhaler (glaxosmithkline uk ltd)
salmeterol 50micrograms disc
aerolin inh 400 100 mcg aer
sintisone tablet (pharmacia ltd)
oxygen bp size f gas 1360 litres
becloforte 400microgram disks with diskhaler (glaxosmithkline uk ltd)
theophylline 175mg modified-release tablets
pulmicort complete 200 mcg inh
salbutamol 100microgram/inhalation spacehaler (celltech pharma europe ltd)
beclometasone 50micrograms with salbutamol 100micrograms/inhalation inhaler
prednisone 1mg tablets
budesonide 200micrograms/actuation refill canister
bricanyl 1.5mg/5ml syrup (astrazeneca uk ltd)
serotide 500 accuhaler (glaxosmithkline uk ltd)
filair 50 inhaler (meda pharmaceuticals ltd)
flisolide diskhaler-community pack 250 mcg
terbutaline respules inh
bricanyl respules (5mg/2ml) 2.5 mg/ml inh
fentoterol 100micrograms/dose / ipratropium 40micrograms/dose inhaler
salbutamol 400mcg/beclometh.100mcg r/cap inh
filair 100 inhaler (meda pharmaceuticals ltd)
becotide 100microgram rotacaps (glaxosmithkline uk ltd)
flisolide diskhaler-community pack 100 mcg
flisolide 100microgram disc (allen & hanburys ltd)
filair forte 250micrograms/dose inhaler (meda pharmaceuticals ltd)
salbutamol 4mg modified-release tablets
salbulin 2mg/5ml oral solution (3m health care ltd)
fluticasone 100microgram disc
fluticasone 125microgram/actuation pressurised inhalation
zithromax 250mg capsules (pfizer ltd)
ventolin 2mg tablet (allen & hanburys ltd)
bricanyl 10mg/ml respirator solution (astrazeneca uk ltd)
ipratropium bromide 40micrograms/dose inhaler
beclometasone 100micrograms disc
oxygen bp size g gas 3400 litres
qvar 100 autohaler (teva uk ltd)
ventolin accuhaler 200 200microgram/actuation inhalation powder (glaxo wellcome
uk ltd)
aerobec 250microgram/actuation pressurised inhalation (meda pharmaceuticals ltd)
amiphylline 350mg modified-release tablets
oxygen bp size pd gas 300 litres
bricanyl sa 7.5mg tablets (astrazeneca uk ltd)
pulmicort ls 50microgram refill canister (astrazeneca uk ltd)
theophylline 125mg tablets
asmabec 100 clickhaler (focus pharmaceuticals ltd)
salamol 2.5mg/2.5ml nebuliser liquid steri-neb unit dose vials (teva uk ltd)
bricanyl 5mg/2ml nebuliser liquid (astrazeneca uk ltd)
salbutamol 100micrograms/dose inhaler (3m health care ltd)
fluticasone 50microgram/actuation pressurised inhalation
beclometasone 100microgram inhalation powder capsules
oxygen bp size c gas 170 litres
budesonide 500micrograms/2ml nebuliser liquid unit dose vials
beclazone 250microgram/actuation inhalation powder (actavis uk ltd)
fenoterol 100microgram/actuation inhaler
ventolin rotahaler (glaxosmithkline uk ltd)
fluitotide accuhaler 100 100microgram/inhalation inhalation powder (allen & hanburys ltd)
budesonide 1mg/2ml nebuliser liquid unit dose vials
azithromycin 200mg/5ml oral suspension
azithromycin 250mg capsules
seretide 50 evohaler (glaxosmithkline uk ltd)
seretide 125 evohaler (glaxosmithkline uk ltd)
salamol 100micrograms/dose inhaler cfc free (teva uk ltd)
seretide 250 evohaler (glaxosmithkline uk ltd)
fenoterol 200micrograms/dose inhaler
budesonide 50micrograms/dose evohaler (glaxosmithkline uk ltd)
salamol 100micrograms/dose easy-breathe inhaler (teva uk ltd)
beclometasone 200micrograms/dose dry powder inhaler
beclometasone 100micrograms/dose dry powder inhaler
flunitolate 0.5mg/2ml nebuliser liquid (glaxosmithkline uk ltd)
salmeterol 50micrograms with fluticasone 50micrograms cfc free inhaler
flutotide accuhaler 50 50microgram/inhalation inhalation powder (allen & hanburys ltd)
oxgen cylinders size pd (boc ltd)
flunitolate 250micrograms/dose evohaler (glaxosmithkline uk ltd)
flunitolate 125micrograms/dose evohaler (glaxosmithkline uk ltd)
aiomir 100micrograms/dose autohaler (teva uk ltd)
salbutamol 400micrograms disc
oxyen bp size dd gas 460 litres
oxyen cylinders size af (boc ltd)
beclometasone 250micrograms/dose dry powder inhaler
fluticasone 250micrograms/dose inhaler cfc free
salbutamol steri-neb 5mg/2.5ml nebuliser liquid (numark management ltd)
salmeterol 25micrograms with fluticasone 25micrograms cfc free inhaler
fluticasone 100micrograms/dose dry powder inhaler
fluticasone 125micrograms/dose inhaler cfc free
oxyen bp size dd 460 litre inhalation gas (boc ltd)
beclometasone 50micrograms/dose dry powder inhaler
ipratropium bromide 20micrograms/dose breath actuated inhaler
carbocisteine 250mg/5ml oral solution
slo-phyllin 250mg capsules (merck serono ltd)
symbicort 200/6 turbohaler (astrazeneca uk ltd)
oxyen cylinders size f (boc ltd)
oxgen bp size d gas 340 litres
oxyen bp with integral headset 1360 litre inhalation gas (boc ltd)
salbutamol 95micrograms/dose dry powder inhaler
ipratropium bromide 20micrograms/dose inhaler cfc free
formoterol 12microgram inhalation powder capsules with device
oxygen cylinders size c (boc ltd)
salmeterol 25micrograms with fluticasone 125micrograms cfc free inhaler
salmeterol 25micrograms with fluticasone 50micrograms cfc free inhaler
oxygen bp size cd gas 460 litres
ipratropium bromide 500micrograms/2ml nebuliser liquid unit dose vials
budesonide 400micrograms/dose / formoterol 12micrograms/dose dry powder inhaler
ipratropium 250micrograms/1ml nebuliser liquid steri-neb unit dose vials (teva uk ltd)
oxygen bp size cd 460 litre inhalation gas (boc ltd)
ipratropium bromide 250micrograms/1ml nebuliser liquid unit dose vials
symbicort 400/12 turbohaler (astrazeneca uk ltd)
budesonide 200micrograms/dose / formoterol 6micrograms/dose dry powder inhaler
mucodyne 375mg capsules (sanofi)
oxygen cylinders size dd with integral headset 2 and 4litres/minute flow rate (boc ltd)
mecysteine 100mg gastro-resistant tablets
salmeterol 50micrograms with fluticasone 100micrograms dry powder inhaler
oxygen bp with integral headset gas 430 litres
aminophylline hydrate 100mg modified-release tablets
symbicort 100/6 turbohaler (astrazeneca uk ltd)
salbutamol 100micrograms/dose dry powder inhaler
oxygen cylinders size b10s (air products plc)
serevent 25micrograms/dose evohaler (glaxosmithkline uk ltd)
salmeterol 25micrograms/dose inhaler cfc free
ventolin .25 mg inj
prednisolone 4 mg tab
fluticasone 50microgram disc
fluticasone 250microgram disc
beclometasone 400microgram inhalation powder capsules
prednisolone 15 mg tab
terbutaline 25micrograms/dose inhaler with spacer
betamethasone valerate 100micrograms/actuation inhaler
theo-dur 300mg tablets (astrazeneca uk ltd)
theo-dur 200mg tablets (astrazeneca uk ltd)
theophylline 300mg modified-release tablets
theophylline 250mg modified-release tablets
budesonide 100micrograms/dose dry powder inhaler
choline theophyllinate 200mg tablets
nuelin 125mg tablets (3m health care ltd)
fluticasone 500microgram disc
prednisone 30 mg tab
maxivent 100microgram/inhalation inhalation powder (ashbourne pharmaceuticals ltd)
fluticasone 250micrograms/dose dry powder inhaler
terbutaline 1.5mg/5ml oral solution sugar free
bricanyl 250micrograms/dose spacer inhaler (astrazeneca uk ltd)
beclometasone 50micrograms/ml nebuliser suspension
salbutamol 5mg/ml nebuliser liquid
exirel 15mg capsule (3m health care ltd)
aminophylline 100mg tablets
aminophylline 100mg modified-release tablets
becloforte vm 250microgram/actuation vm pack (allen & hanburys ltd)
oxygen bp gas 640 litres
8251  pulmicort refil 50 mg inh
8252  pirbuterol 15mg capsule
8267  sodium cromoglicate 1mg/dose / salbutamol 100micrograms/dose inhaler
8333  ipratropium bromide 40microgram inhalation powder capsules
8339  fenoterol hydrobromide complete unit inh
8429  ventolin i/v 5 mg inj
8433  budesonide 100micrograms/actuation inhaler
8450  flixotide diskhaler-community pack 50 mcg
8504  exirel 15 mg tab
8505  oxygen bp gas 6400 litres
8522  terbutaline 7.5mg modified-release tablets
8572  rimiterol inhaler
8635  flixotide 50microgram disc (allen & hanburys ltd)
8636  ventolin s/r 8 mg spa
8676  terbutaline 10mg/ml nebuliser liquid
8757  oxygen bp gas 3200 litres
8806  phyllocontin continus 350mg tablet (napp pharmaceuticals ltd)
8955  theophylline 100 mg tab
9018  mucodyne 375mg capsule (aventis pharma)
9092  theophylline 350mg modified release tablets
9164  fluticasone 50micrograms/dose dry powder inhaler
9233  beclometasone 200microgram inhalation powder capsules
9270  ipratropium bromide with fenoterol hydrobromide 500micrograms + 1.25mg/4ml
9384  salbutamol 4mg modified-release capsules
9477  asmabec 100microgram/actuation spacehaler (celltech pharma europe ltd)
9571  beclometasone 250micrograms/actuation vortex inhaler
9577  asmabec 50 clickhaler (focus pharmaceuticals ltd)
9599  beclazone 50microgram/actuation inhalation powder (actavis uk ltd)
9642  mucodyne 250mg/5ml oral solution (aventis pharma)
9651  asmasal 100microgram/inhalation spacehaler (celltech pharma europe ltd)
9658  oxitropium bromide 100micrograms/dose breath actuated inhaler
9711  formoterol 6micrograms/dose dry powder inhaler
9727  prednisolone 50mg tablets
9805  salbutamol 5mg/50ml solution for infusion vials
9889  oxygen cylinders size g (boc ltd)
9895  oxygen bp size df with integral headset gas 1360 litres
9906  mucodyne 250mg/5ml syrup (sanofi)
9921  beclometasone 100micrograms/dose breath actuated inhaler cfc free
9943  visclair 100mg gastro-resistant tablets (ranbaxy (uk) ltd)
10043  oxygen composite cylinders size b10c with integral headset (air products plc)
10053  oxygen connection cubing 1.8m
10090  beclometasone 50micrograms/actuation extrafine particle cfc free inhaler
10218  budesonide 100micrograms/dose / formoterol 6micrograms/dose dry powder inhaler
10321  budesonide 400microgram inhalation powder capsules
10331  nuelin 60mg/5ml liquid (3m health care ltd)
10353  salbuvent rondo
10360  aerocrom inhaler (castlemead healthcare ltd)
10407  phyllocontin paediatric continus 100mg tablets (napp pharmaceuticals ltd)
10433  theophylline 60mg/5ml oral solution
10458  ventolin cr 4mg tablet (allen & hanburys ltd)
10561  aminophylline 250mg/ml injection
10723  theophylline 125mg/5ml syrup
10744  theophylline 80 mg eli
10808  mucodyne paediatric 125mg/5ml syrup (sanofi)
10825  terbutaline 5mg tablets
10831 biophylline 125mg/5ml oral solution (lorex synthelabo ltd)
10858 pulmadil auto inhalation powder (3m health care ltd)
10958 salbutamol .25 mg inj
10968 foradil 12microgram inhalation powder capsules with device (novartis pharmaceuticals uk ltd)
11046 ipratropium bromide with salbutamol 500micrograms + 2.5mg/2.5ml
11149 betnelan 500microgram tablets (focus pharmaceuticals ltd)
11198 beclometasons 50 micrograms/actuation vortex inhaler
11307 salbutamol 100micrograms/dose / beclometasone 50micrograms/dose inhaler
11410 fluticasone 500micrograms/dose / salmeterol 50micrograms/dose dry powder inhaler
11478 fluticasone 2mg/2ml nebuliser liquid unit dose vials
11497 beclometasone 400micrograms/dose dry powder inhaler
11588 fluticasone 125micrograms/dose / salmeterol 25micrograms/dose inhaler cfc free
11618 fluticasone 250micrograms/dose / salmeterol 25micrograms/dose inhaler cfc free
11659 oxygen bp size dd with integral headset gas 460 litres
11719 slo-phyllin 60mg capsules (merck serono ltd)
11732 beclometasone 50micrograms/dose breath actuated inhaler cfc free
11779 ipratropium bromide 40microgram inhalation powder capsules with device
11993 pro-vent 300mg capsule (wellcome medical division)
12042 ventolin cr 8mg tablet (allen & hanburys ltd)
12144 bambuterol 20mg tablets
12240 theophylline 300mg modified release capsules
12463 pirituberol 15 mg tab
12479 aerolin inh auto refil 100 mcg aer
12486 bronchodil 500microgram/dose inhalation powder (viatris pharmaceuticals ltd)
12529 fabrol 200mg granules (novartis consumer health uk ltd)
12563 exirel inhalation powder (3m health care ltd)
12699 pecram 225mg modified-release tablet (novartis consumer health uk ltd)
12808 fenoterol 100micrograms/dose / ipratropium bromide 40micrograms/dose breath actuated inhaler
12822 salbutamol 2.5mg with ipratropium bromide 500micrograms/2.5ml unit dose nebuliser solution
12909 salbutamol 100micrograms/dose / ipratropium 20micrograms/dose inhaler
12994 fluticasone 50micrograms/dose / salmeterol 25micrograms/dose inhaler cfc free
13037 pulvinal beclometasone dipropionate 200micrograms/dose dry powder inhaler (chiesi ltd)
13038 pulvinal salbutamol 200micrograms/dose dry powder inhaler (chiesi ltd)
13040 fluticasone 250micrograms/dose / salmeterol 50micrograms/dose dry powder inhaler
13181 easyhaler salbutamol sulphate 100micrograms/dose dry powder inhaler (onion pharma (uk) ltd)
13206 oxygen bp with integral headset gas 300 litres
13273 fluticasone 100micrograms/dose / salmeterol 50micrograms/dose dry powder inhaler
13290 clenil modulite 100micrograms/dose inhaler (chiesi ltd)
13307 bricanyl 500microgram/ml injection (astrazeneca uk ltd)
13522 prednisolone 2 mg tab
13529 amnivent-225 sr tablets (ashbourne pharmaceuticals ltd)
13575 bambec 20mg tablets (astrazeneca uk ltd)
13615 prednisone 10 mg tab
13757 tropiovent steripoule 250microgram/ml nebuliser liquid (ashbourne pharmaceuticals ltd)
13815 beclazone 100microgram/actuation inhalation powder (actavis uk ltd)
13996 salamol 100microgram/inhalation inhalation powder (sandoz ltd)
14294 qvar 50micrograms/dose easi-breathe inhaler (teva uk ltd)
14306 formoterol 12micrograms/dose inhaler cfc free
14321 beclometasone 200micrograms/dose inhaler cfc free
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<td>bricanyl 2.5 mg inj</td>
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<td>terbutaline 500micrograms/ml injection</td>
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<td>zithromax 200mg/5ml oral suspension (pfizer ltd)</td>
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<td>bdp 250microgram/actuation spacehaler (celltech pharma europe ltd)</td>
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<td>salbutamol 100micrograms/inhalation vortex inhaler</td>
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<td>bambec 10mg tablets (astrazeneca uk ltd)</td>
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<td>salbutamol 400microgram / beclometasone 200microgram inhalation powder capsules</td>
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<td>asmabec 250 clickhaler (focus pharmaceuticals ltd)</td>
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<td>budesonide 400micrograms/actuation inhaler</td>
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<td>pulvinal beclometasone dipropionate 400micrograms/dose dry powder inhaler (chiesi ltd)</td>
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<td>norphyllin sr 225mg tablets (teva uk ltd)</td>
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<td>aminophylline 250mg/10ml injection</td>
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<td>reproterol 500micrograms/dose inhaler</td>
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<td>oxygen bp size pd 300 litre inhalation gas (medigas ltd)</td>
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<td>oxygen cylinders size pa2 with integral headset (air products plc)</td>
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<td>oxygen cylinders size cd with integral headset 0-15litres/minute flow rate (boc ltd)</td>
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<td>oxygen bp size cd with integral headset gas 460 litres</td>
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<td>fluticasone 500micrograms/2ml nebuliser liquid unit dose vials</td>
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<td>easyhaler beclometasone 200micrograms/dose dry powder inhaler (onion pharma (uk) ltd)</td>
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<td>easyhaler budesonide 100micrograms/dose dry powder inhaler (onion pharma (uk) ltd)</td>
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<td>ventmax sr 4mg capsules (chiesi ltd)</td>
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17874 monovent 1.5mg/5ml oral solution (lagap)
17901 bricanyl nebul 2.5 ml
18140 respontin 500micrograms/2ml nebul (glaxosmithkline uk ltd)
18288 choline theophyllinate 100mg tablets
18299 fenoterol 1.25mg/4ml / ipratropium 500micrograms/4ml nebuliser liquid unit dose vials
18314 aerocrom syncroner with spacer (castlemead healthcare ltd)
18394 bdp 50microgram/actuation spacehaler (celltech pharma europe ltd)
18421 respontin nebules 250microgram/ml nebuliser liquid (glaxo wellcome uk ltd)
18456 salbutamol 200microgram / beclometasone 100microgram inhalation powder capsules
18484 ventide paediatric rotacaps (glaxosmithkline uk ltd)
18537 budesonide 200microgram inhalation powder capsules
18622 salbutin 2mg tablet (3m health care ltd)
18848 qvar 100micrograms/dose easi-breathe inhaler (teva uk ltd)
18937 sabidal sr 270 270 mg tab
18968 salbutamol 5mg/5ml solution for infusion ampoules
18998 choline theophyllinate 62.5mg/5ml oral solution
19031 bdp 100microgram/actuation spacehaler (celltech pharma europe ltd)
19121 beclometasone 100micrograms with salbutamol 200micrograms inhalation capsules
19376 beclometasone 200micrograms with salbutamol 400micrograms inhalation capsules
19389 asmabec 50microgram/actuation spacehaler (celltech pharma europe ltd)
19401 beclometasone 250micrograms/actuation inhaler and compact spacer
19563 becotide for nebuliser
19642 ventolin nebules
19649 ventolin rotahaler
19653 ventolin respirator
19726 ventolin s/r
19732 cobutolin inh
19735 uniphyllin continus
19736 becotide susp for nebulisation
19737 atrovent nebuliser solution (1ml vial)
19799 tulobuterol 2mg
19805 atrovent
20095 precortisyl forte 25mg tablet (aventis pharma)
20225 aminophylline 500 mg inj
20670 prednisolone e/c
20675 salbutamol rotahaler complete unit
20680 aerolin autohaler
20707 becotide 100
20720 atrovent forte
20763 becloforte
20781 salbutamol u.dose nebulising 2.5mg/2.5ml
20803 ipratropium bromide nebuliser solution
20812 pulmicort refill
20825 spacehaler bdp 250microgram/actuation spacehaler (celltech pharma europe ltd)
20838 salbuvent 2mg tablet (pharmacia ltd)
21005 beclometasone 250micrograms/dose inhaler cfc free
21102 salbutamol 2mg/5ml oral solution (lagap)
21330 oxygen composite cylinders size if2 with integral headset (medigas ltd)
21331 oxygen composite cylinders with integral headset (air products plc)
21402 oxygen cylinders size pd (air products plc)
21482 beclometasone 100micrograms/dose inhaler (generics (uk) ltd)
21769 lasma 300mg tablet (pharmax ltd)
21833 decortisyl 5mg tablet (roussel laboratories ltd)
asmaven 100microgram inhalation powder (berk pharmaceuticals ltd)
aminophylline 20 ml inj
beclometasone /salbutamol
ventmax sr 8mg capsules (chiesi ltd)
spacehaler salbutamol 100microgram/inhalation spacehaler (celltech pharma europe ltd)
salbutamol respirator soln
salbutamol inhaler
duvent
pirbuterol 10mg capsule
respacal 2mg tablet (ucb pharma ltd)
choline theophyllinate 270 mg tab
reproterol 10mg/ml respirator solution
carbocisteine 750mg/5ml forte oral solution
maxivent 2.5mg/2.5ml nebuliser liquid unit dose steripoule vials (ashbourne pharmaceuticals ltd)
oxygen cylinder f size 1280 litres
precortisyl 5mg tablet (hoechst marion roussel)
respontin 250micrograms/1ml nebules (glaxosmithkline uk ltd)
aminophylline sr 225mg modified-release tablet (ivax pharmaceuticals uk ltd)
pulmicort l.s. refill
ventolin rotacaps
ipratropium 500micrograms/2ml nebuliser liquid steri-neb unit dose vials (teva uk ltd)
novolizer budesonide 200microgram/actuation pressurised inhalation (meda pharmaceuticals ltd)
exirel 10mg capsule (3m health care ltd)
oxygen cylinders size d (boc ltd)
precortisyl 1mg tablet (hoechst marion roussel)
beclometasone 100micrograms/dose inhaler (a a h pharmaceuticals ltd)
salbutamol cfc/free b/a
precortisyl 1mg tablet (hoechst marion roussel)
maxivent 5mg/2.5ml nebuliser liquid unit dose steripoule vials (ashbourne pharmaceuticals ltd)
atimos modulite 12micrograms/dose inhaler (chiesi ltd)
bronchodil 10mg/5ml oral solution (viatris pharmaceuticals ltd)
exirel 7.5mg/5ml oral solution (3m health care ltd)
pirbuterol 7.5mg/5ml oral solution
beclometasone 100micrograms/dose inhaler (teva uk ltd)
uniphyllin paediatric continus
exirel 10 mg tab
ventolin
ipratropium bromide with fenoterol hydrobromide 0micrograms + 100micrograms/actuation
pulmicort complete
airomir autohaler cfc free b/a
brelomax 2mg tablet (abbott laboratories ltd)
cobutolin 2mg tablet (actavis uk ltd)
phylocontin continus
easyhaler budesonide 200micrograms/dose dry powder inhaler (orion pharma (uk) ltd)
bromhexine hcl 8mg tablets
salbuvent 0.5mg/ml injection (pharmacia ltd)
ipratropium bromide with fenoterol hydrobromide 40micrograms + 100micrograms/actuation
becotide 50
choledyl
ventolin
pulmicort
beclometasone 100microgram/actuation pressurised inhalation (approved prescription services ltd)
aminoephylne 2 ml inj
prednisolone
fluticasone prop disk refill
prednisolone
deltastab 1mg tablet (waymade healthcare plc)
beclometasone 250microgram/actuation pressurised inhalation (approved prescription services ltd)
aminoephylne 250mg/10ml solution for injection minijet pre-filled syringes (ucb pharma ltd)
prednisolone 2.5mg gastro-resistant tablet (biorex laboratories ltd)
salbutamol 100microgram/inhalation inhalation powder (ivax pharmaceuticals uk ltd)
ventolin 50microgram/ml injection (allen & hanburys ltd)
beclometasone 100microgram/actuation inhalation powder (actavis uk ltd)
spacehaler bdp 50microgram/actuation spacehaler (celltech pharma europe ltd)
deltastab 5mg tablet (waymade healthcare plc)
salbutamol 2mg/5ml oral solution sugar free (a a h pharmaceuticals ltd)
salbuvent 4mg tablet (pharmacia ltd)
aminoephylne 225mg modified-release tablet (hillcross pharmaceuticals ltd)
beclometasone 250micrograms/dose inhaler (generics (uk) ltd)
salbutamol 100micrograms/dose inhaler cfc free (teva uk ltd)
salbutamol 200micrograms inhalation capsules
beclometasone 250micrograms/dose inhaler (teva uk ltd)
salbutamol cyclohaler
ipratropium bromide 250microgram/ml nebuliser liquid (galen ltd)
salbutamol 100micrograms/actuation breath actuated inhaler
beclometasone 50microgram/actuation pressurised inhalation (approved prescription services ltd)
aerolin autohaler 100microgram/actuation pressurised inhalation (3m health care ltd)
deltastab 2 mg tab
aminophylline 225mg modified-release tablet (actavis uk ltd)
easyhaler budesonide 400micrograms/dose dry powder inhaler (orion pharma (uk) ltd)
decortisyl 25 mg tab
salbuvent 5mg/ml respirator solution (pharmacia ltd)
salbulin cfc free
prednisolone steaglate 6.65mg tablet
uniphyllin continus
beclometasone 50micrograms/dose inhaler (generics (uk) ltd)
31845 salapin 2mg/5ml syrup (pinewood healthcare)
31933 salbutamol 100micrograms/dose inhaler (a a h pharmaceuticals ltd)
32050 salbutamol 400 cyclocaps (teva uk ltd)
32102 salbutamol 4mg tablets (a a h pharmaceuticals ltd)
32461 choline theophyllinate 90 mg tab
32812 numotac 10mg tablet (3m health care ltd)
32874 beclometasone 50microgram/actuation inhalation powder (actavis uk ltd)
32893 theophylline 100mg/lysine 74mg mg tab
33089 salbutamol 100micrograms/dose inhaler (kent pharmaceuticals ltd)
33258 beclometasone 250micrograms/dose inhaler (a a h pharmaceuticals ltd)
33373 salbutamol 200 cyclocaps (teva uk ltd)
33588 salbutamol 100micrograms/dose inhaler (generics (uk) ltd)
33691 prednisolone 5mg gastro-resistant tablet (biorex laboratories ltd)
33817 salbutamol 100micrograms/dose inhaler cfc free (actavis uk ltd)
33849 beclometasone 100microgram/actuation inhalation powder (neo laboratories ltd)
33888 azithromycin 250mg tablets
33988 prednisolone 5mg tablet (co-pharma ltd)
33990 prednisolone 5mg tablet (ivax pharmaceuticals uk ltd)
34018 salbutamol 5mg/2.5ml nebuliser liquid (galen ltd)
34029 salbutamol 400micrograms inhalation capsules
34109 prednisolone 5 mg gastro-resistant tablet
34134 aerolin 400 100microgram/actuation inhalation powder (3m health care ltd)
34162 salbutamol 2.5mg/2.5ml nebuliser liquid (galen ltd)
34310 salbutamol 100micrograms/dose inhaler cfc free (a a h pharmaceuticals ltd)
34311 salbutamol 100microgram/inhalaion inhalation powder (berk pharmaceuticals ltd)
34315 beclometasone 250microgram/actuation inhalation powder (actavis uk ltd)
34428 beclometasone 50microgram/actuation inhalation powder (neo laboratories ltd)
34618 salbutamol 2mg tablets (actavis uk ltd)
34619 salbutamol 100microgram/inhalaion inhalation powder (kent pharmaceuticals ltd)
34631 prednisolone 1mg tablet (co-pharma ltd)
34702 salbutamol 100microgram/inhalaion inhalation powder (c p pharmaceuticals ltd)
34739 beclometasone 50micrograms/dose inhaler (teva uk ltd)
34794 salbutamol 100micrograms/dose inhaler cfc free (a a h pharmaceuticals ltd)
34859 beclometasone 250microgram/actuation inhalation powder (neo laboratories ltd)
34914 prednisolone 1mg tablet (celltech pharma europe ltd)
34919 beclometasone 50microgram/actuation inhalation powder (a a h pharmaceuticals ltd)
34938 salbutamol 4mg tablets (actavis uk ltd)
35011 tiotropium bromide 18microgram inhalation powder capsules
35014 tiotropium bromide 18microgram inhalation powder capsules with device
35015 erdosteine 300mg capsules
35071 becodisks 200microgram (glaxosmithkline uk ltd)
35106 becodisks 100microgram with diskhaler (glaxosmithkline uk ltd)
35107 beclometasone 400microgram inhalation powder blisters with device
35113 beclometasone 200microgram inhalation powder blisters
35118 becodisks 400microgram with diskhaler (glaxosmithkline uk ltd)
35165 serevent 50microgram disks with diskhaler (glaxosmithkline uk ltd)
35178 erdotoin 300mg capsules (galen ltd)
35225 flixotide 100microgram disks with diskhaler (glaxosmithkline uk ltd)
35288 beclometasone 400microgram inhalation powder blisters
35293 beclometasone 200microgram inhalation powder blisters with device
35299 becodisks 400microgram (glaxosmithkline uk ltd)
35374 flixotide 500microgram disks (glaxosmithkline uk ltd)
35392 flixotide 500microgram disks with diskhaler (glaxosmithkline uk ltd)
35408 becodisks 100microgram (glaxosmithkline uk ltd)
35430 becodisks 200microgram with diskhaler (glaxosmithkline uk ltd)
35461 flixotide 250microgram disks with diskhaler (glaxosmithkline uk ltd)
35503 salmeterol 50microgram inhalation powder blisters
35510 budesonide 200micrograms/dose dry powder inhalation cartridge with device
35522 bricanyl 500micrograms/1ml solution for injection ampoules (astrazeneca uk ltd)
35542 salmeterol 50microgram inhalation powder blisters with device
35557 ipramol nebuliser solution 2.5ml steri-neb unit dose vials (teva uk ltd)
35566 oxygen bp with set gas 1360 litres
35580 beclometasone 100microgram inhalation powder blisters with device
35602 budesonide 200micrograms/dose dry powder inhalation cartridge
35611 flixotide 250microgram disks (glaxosmithkline uk ltd)
35631 budelin novolizer 200micrograms/dose inhalation powder (meda pharmaceuticals ltd)
35638 fluticasone 100microgram inhalation powder blisters with device
35652 beclometasone 100microgram inhalation powder blisters
35700 fluticasone 50microgram inhalation powder blisters with device
35724 budelin novolizer 200micrograms/dose inhalation powder refill (meda pharmaceuticals ltd)
35725 formoterol easyhaler 12micrograms/dose dry powder inhaler (orion pharma (uk) ltd)
35744 bricanyl 2.5mg/5ml solution for injection ampoules (astrazeneca uk ltd)
35772 fluticasone 100microgram inhalation powder blisters
35825 serevent 50microgram disks (glaxosmithkline uk ltd)
35861 terbutaline 2.5mg/5ml solution for injection ampoules
35862 terbutaline 500micrograms/1ml solution for injection ampoules
35905 fluticasone 250microgram inhalation powder blisters
35986 flixotide 50microgram disks (glaxosmithkline uk ltd)
36021 fluticasone 50microgram inhalation powder blisters with device
36090 flixotide 100microgram disks (glaxosmithkline uk ltd)
36290 flixotide 50microgram disks with diskhaler (glaxosmithkline uk ltd)
36401 fluticasone 250microgram inhalation powder blisters with device
36462 fluticasone 50microgram inhalation powder blisters
36677 reproterol 10mg/5ml oral solution
36884 tiotropium bromide 2.5micrograms/dose solution for inhalation cartridge with device cfc free
37432 fostair 100micrograms/dose/6micrograms/dose inhaler (chiesi ltd)
37447 fluticasone 50microgram inhalation powder blisters
37470 beclometasone 100micrograms/dose / formoterol 6micrograms/dose inhaler cfc free
37612 terbutaline 5mg/2ml nebuliser liquid unit dose vials (galen ltd)
37791 ipratropium bromide 250microgram/ml
38079 salbutamol 100micrograms/dose dry powder inhalation cartridge with device
38097 salbutamol cyclocaips 200microgram inhalation powder (dupont pharmaceuticals ltd)
38120 theophylline 500mg modified release tablets
38136 salbulin novolizer 100micrograms/dose inhalation powder (meda pharmaceuticals ltd)
38214 salbutamol 100micrograms/dose dry powder inhalation cartridge
38226 salbulin novolizer 100micrograms/dose inhalation powder refill (meda pharmaceuticals ltd)
38407 prednisolone 20mg tablet
38416 salbutamol cyclocaips 400microgram inhalation powder (dupont pharmaceuticals ltd)
38419 terbutaline 1.5mg/5ml oral solution sugar free (a a h pharmaceuticals ltd)
39040 phyllocontin forte continus 350mg tablets (napp pharmaceuticals ltd)
39099 pulmicort 100micrograms/dose inhaler cfc free (astrazeneca uk ltd)
39102 budesonide 100micrograms/dose inhaler cfc free
39200 aerobec forte 250 autohaler (meda pharmaceuticals ltd)
39879 budesonide 200micrograms/dose inhaler cfc free
40057 pulmicort 200micrograms/dose inhaler cfc free (astrazeneca uk ltd)
40177 ipratropium bromide 250microgram/ml nebuliser liquid (hillcross pharmaceuticals ltd)
40218 azithromycin 500mg tablets (teva uk ltd)
40599 salbutamol 5mg/2.5ml nebuliser liquid unit dose steripoule vials (galen ltd)
40637 ipratropium 250micrograms/1ml nebuliser liquid unit dose steripoule vials (galen ltd)
40655 salbuvent 100microgram/actuation inhalation powder (pharmacia ltd)
40709 salbutamol 2.5mg/2.5ml nebuliser liquid unit dose vials (a a h pharmaceuticals ltd)
40832 ipratropium 500micrograms/2ml nebuliser liquid unit dose steripoule vials (galen ltd)
41269 beclometasone 400 cyclocaps (teva uk ltd)
41412 beclometasone 400micrograms/actuation inhaler
41548 salbutamol 2mg tablets (approved prescription services ltd)
41549 salbutamol 2mg tablet (c p pharmaceuticals ltd)
41691 salbutamol 2mg/5ml oral solution sugar free (sandoz ltd)
41832 monovent 1.5mg/5ml syrup (sandoz ltd)
42103 tulobuterol 1mg/5ml sugar free syrup
42279 salbutamol 2.5mg/2.5ml nebuliser liquid unit dose steripoule vials (galen ltd)
42497 salbutamol 8mg tablet
42511 aminophylline 25mg/ml injection (celltech pharma europe ltd)
42830 ventolin 100micrograms/dose evohaler (glaxosmithkline uk ltd)
42858 ventolin 200micrograms/dose accuhaler (glaxosmithkline uk ltd)
42867 terbutaline 1.5mg/5ml oral solution (sandoz ltd)
42886 bircanyl 500micrograms/dose turbohaler (astrazeneca uk ltd)
42910 aminophylline 250mg/10ml solution for injection ampoules (martindale pharmaceuticals ltd)
42928 flixotide 100micrograms/dose accuhaler (glaxosmithkline uk ltd)
42985 flixotide 50micrograms/dose accuhaler (glaxosmithkline uk ltd)
42994 flixotide 250micrograms/dose accuhaler (glaxosmithkline uk ltd)
43046 salipraneb 0.5mg/2.5mg nebuliser solution 2.5ml ampoules (arrow generics ltd)
43074 flixotide 500micrograms/dose accuhaler (glaxosmithkline uk ltd)
43085 bircanyl 5mg/2ml respules (astrazeneca uk ltd)
43400 clamelle 500mg tablets (actavis uk ltd)
43544 prednisone 5mg tablet (knoll ltd)
43736 indacaterol 150microgram inhalation powder capsules with device
43794 nebusal 7% inhalation solution 4ml ampoules (forest laboratories uk ltd)
43870 sodium chloride 7% inhalation solution 4ml ampoules
43893 onbrez breezhaler 150microgram inhalation powder capsules with device (novartis pharmaceuticals uk ltd)
44064 onbrez breezhaler 300microgram inhalation powder capsules with device (novartis pharmaceuticals uk ltd)
44173 roflumilast 500microgram tablets
44380 prednisone 1mg modified-release tablets
44431 daxas 500microgram tablets (takeda uk ltd)
44713 salbutamol 100microgram/inhalation inhalation powder (celltech pharma europe ltd)
45302 prednisolone 5mg tablet (biorex laboratories ltd)
45610 indacaterol 300microgram inhalation powder capsules with device
45863 salbutamol 5mg/2.5ml nebuliser liquid (generics (uk) ltd)
46157 beclometasone 200 cyclocaps (teva uk ltd)
46551 salbutamol 100microgram/inhalation inhalation powder (neo laboratories ltd)
46695 azithromycin 500mg tablet (hillcross pharmaceuticals ltd)
49016 sodium chloride 7% inhalation solution 4ml vials
49045 nebusal 7% inhalation solution 4ml vials (forest laboratories uk ltd)
49530 azithromycin 200mg/5ml oral suspension (sandoz ltd)
50508 mucodyne 250mg/5ml syrup (sigma pharmaceuticals plc)
52029 zithromax 250mg capsules (mawdsley-brooks & company ltd)
53303 carbocisteine 375mg capsules (arrow generics ltd)
Spirometry codes
medcode readterm
6118 spirometry
10336 spirometry reversibility
10337 spirometry screening
10420 spirometry reversibility negative
10492 spirometry reversibility positive
13683 referral for spirometry
14453 forced expiratory volume - fev
19428 chronic obstructive pulmonary disease excluded by spirometry
26241 spirometry indicated
29015 spirometry
45993 incentive spirometry
102522 post bronchodilator spirometry
6091 Percent predicted FEV1
8512 FEV1/FVC percent
10320 Forced expired volume in 1 second
11078 FEV1/FVC > 70% of predicted
14455 FEV1/FVC ratio normal
14456 FEV1/FVC ratio
19830 FEV1 after bronchodilation
19832 FEV1/FVC ratio after bronchodilator
23237 FEV1 before bronchodilation
23285 FEV1/FVC ratio abnormal
25083 FEV1/FVC < 70% of predicted
27141 FEV1/FVC ratio before bronchodilator
43040 FEV1 pre steroids
43041 FEV1 post steroids
58632 FEV1/FVC ratio pre steroids
58633 FEV1/FVC ratio post steroids
99777 Forced expired volume in 1 second reversibility
100391 Forced expired volume in 1 second percentage change
101079 Percentage predicted FEV1 after bronchodilation

Non-specific bronchitis codes / Frequent winter bronchitis
medcode readterm
148 bronchitis unspecified
152 wheezy bronchitis
3243 chronic bronchitis
3480 bronchitis nos
4519 h/o: bronchitis
5798 chronic asthmatic bronchitis
5909 chronic wheezy bronchitis
7092 recurrent wheezy bronchitis
11150 mucopurulent chronic bronchitis
13247 fh: bronchitis
13262 fh: bronchitis/coad
14798 emphysematous bronchitis
15157 chronic bronchitis nos
15626 chronic catarrhal bronchitis
17359 chest infection - unspecified bronchitis
24248 mixed simple and mucopurulent chronic bronchitis
25603 simple chronic bronchitis
27819 obstructive chronic bronchitis
Respiratory symptom codes

Wheeze
medcode     readterm
152       wheezy bronchitis
173       wheezing
2210      [d]wheezing
2891  wheezing symptom
4836  nocturnal cough / wheeze
5861  o/e - expiratory wheeze
5909  chronic wheezy bronchitis
5978  acute wheezy bronchitis
7092  recurrent wheezy bronchitis
42317 increasing exercise wheeze
100954 [d]mild wheeze
101037 [d]moderate wheeze
101073 [d]severe wheeze
101421 [d]very severe wheeze
102480 on examination - inspiratory wheeze

**Chronic cough**
medcode  readterm
92  cough
292  chesty cough
1025  bronchial cough
1160 [d]cough
1234  productive cough nos
1273  c/o - cough
1612  chronic cough
3068  night cough present
3628  persistent cough
3645  coughing up phlegm
4070  morning cough
4836  nocturnal cough / wheeze
4931  dry cough
7706  productive cough -clear sputum
7707  cough symptom nos
7708  productive cough-yellow sputum
7773  productive cough -green sputum
16717  smokers’ cough
22318  difficulty in coughing up sputum
29318  evening cough
43795  unexplained cough
60903  cough aggravates symptom
100333  cough on exercise

**Exertional breathlessness**
medcode  readterm
735  [d]breathlessness
1429  breathlessness
3092  [d]dyspnoea
5175  breathlessness symptom
5896  dyspnoea - symptom
6326  breathless - moderate exertion
7000  o/e - dyspnoea
7932  breathless - mild exertion
19426  mrc breathlessness scale: grade 3
19427  mrc breathlessness scale: grade 2
19429  mrc breathlessness scale: grade 5
19430 mrc breathlessness scale: grade 4
19432 mrc breathlessness scale: grade 1
21801 breathlessness nos
24889 breathless - strenuous exertion
31143 breathless - at rest
42287 borg breathlessness score: 6 severe (+)
53771 dyspnoea on exertion
57193 borg breathlessness score: 3 moderate
57759 borg breathlessness score: 2 slight
59860 borg breathlessness score: 4 somewhat severe
64049 borg breathlessness score: 5 severe
67566 borg breathlessness score: 9 very, very sev (almost maximal)
68707 borg breathlessness score: 1 very slight
70061 borg breathlessness score: 7 very severe
70818 borg breathlessness score: 0.5 very, very slight
72334 borg breathlessness score: 8 very severe (+)
101843 borg breathlessness score: 10 maximal
741 [D]Shortness of breath
2563 [D]Respiratory distress
2575 Short of breath on exertion
2931 Difficulty breathing
4822 Shortness of breath
5349 Shortness of breath symptom
9297 [D]Respiratory insufficiency
22094 Short of breath dressing/undressing
40813 Unable to complete a sentence in one breath

**Sputum codes**
medcode readterm
292 chesty cough
1025 bronchial cough
1234 productive cough nos
3645 coughing up phlegm
7706 productive cough -clear sputum
7708 productive cough-yellow sputum
7773 productive cough -green sputum
22318 difficulty in coughing up sputum
1251 [d]abnormal sputum
3727 sputum sent for c/s
8287 sputum sample obtained
8760 [d]positive culture findings in sputum
9807 sputum - symptom
14804 sputum appears infected
15430 [d]sputum abnormal - colour
16026 sputum examination: abnormal
18964 sputum clearance
20086 [d]sputum abnormal - amount
22318 difficulty in coughing up sputum
23582 [d]abnormal sputum nos
24181 sputum: mucopurulent
29294 sputum appears normal
30754 yellow sputum
30904 sputum sent for examination
31417 sputum - not infected
35577 sputum examination - general
36515 [d]abnormal sputum - tenacious
36880 green sputum
40201 sputum microscopy: nad
40202 mucoid sputum - o/e
42573 clear sputum
43270 sputum evidence of infection
43272 sputum examination nos
44214 [d]sputum abnormal - odour
49029 sputum gen. exam. nos
49694 sputum: organism on gram stain
52806 sputum: frothy/watery
54177 sputum: excessive - mucoid
61079 sputum inspection nos
91680 expectoration of induced sputum from respiratory tract
100484 volume of sputum
100524 moderate sputum
100629 white sputum
100647 copious sputum
100931 brown sputum
101782 profuse sputum
103209 grey sputum

QOF codes

H3... Chronic obstructive pulmonary disease
  H31.. Chronic bronchitis
  H310. Simple chronic bronchitis
  H3100 Chronic catarrhal bronchitis
  H310z Simple chronic bronchitis NOS
  H311. Mucopurulent chronic bronchitis
  H3110 Purulent chronic bronchitis
  H3111 Fetid chronic bronchitis
  H311z Mucopurulent chronic bronchitis NOS
  H312. Obstructive chronic bronchitis
  H3120 Chronic asthmatic bronchitis
  H3121 Emphysematous bronchitis
  H3123 Bronchiolitis obliterans
  H312z Obstructive chronic bronchitis NOS
  H313. Mixed simple and mucopurulent chronic bronchitis
  H31y. Other chronic bronchitis
  H31y1 Chronic tracheobronchitis
  H31yz Other chronic bronchitis NOS
  H31z. Chronic bronchitis NOS
H32.. Emphysema
  H320. Chronic bullous emphysema
  H3200 Segmental bullous emphysema
  H3201 Zonal bullous emphysema
  H3202 Giant bullous emphysema
  H3203 Bullous emphysema with collapse
  H320z Chronic bullous emphysema NOS
  H321. Panlobular emphysema
  H322. Centrilobular emphysema
  H32y. Other emphysema
  H32y0 Acute vesicular emphysema
H32y1 Atrophic (senile) emphysema
H32y2 MacLeod's unilateral emphysema
H32yz Other emphysema NOS
H32z. Emphysema NOS
H36.. Mild chronic obstructive pulmonary disease
H37.. Moderate chronic obstructive pulmonary disease
H38.. Severe chronic obstructive pulmonary disease
H39.. Very severe chronic obstructive pulmonary disease
H3A.. End stage chronic obstructive airways disease (v23)
H3y.. Other specified chronic obstructive airways disease
H3y0. Chronic obstructive pulmonary disease with acute lower respiratory infection (v23)
H3y1. Chronic obstructive pulmonary disease with acute exacerbation, unspecified (v23)
H3z.. Chronic obstructive airways disease NOS

GP Questionnaire

1. Do you think this patient has COPD? Yes / No / Uncertain
2. What was the diagnosis of COPD based on? (please circle all that apply)
   Smoking history symptoms spirometry other (please describe)
3. Has a respiratory physician seen the patient and confirmed a diagnosis of COPD?
4. Does the patient have any other respiratory condition? If yes, than what?

Table S1: The PPV and proportion of patients diagnosed with COPD who also had cardiovascular disease or asthma

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Number with CVDx</th>
<th>Number confirmed COPD</th>
<th>PPV and 95% CI</th>
<th>Number with asthma</th>
<th>Number confirmed COPD</th>
<th>PPV and 95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPD Code + spirometry + COPD medication</td>
<td>20</td>
<td>17</td>
<td>85.0, 59.6-95.6</td>
<td>18</td>
<td>14</td>
<td>72.2, 45.3-89.1</td>
</tr>
<tr>
<td>COPD Code + spirometry</td>
<td>24</td>
<td>20</td>
<td>83.3, 61.1-94.1</td>
<td>20</td>
<td>14</td>
<td>70.0, 45.0-87.0</td>
</tr>
<tr>
<td>COPD Code + COPD medication</td>
<td>18</td>
<td>16</td>
<td>88.9, 61.1-97.6</td>
<td>16</td>
<td>9</td>
<td>56.3, 29.8-79.6</td>
</tr>
<tr>
<td>COPD Code only</td>
<td>18</td>
<td>16</td>
<td>88.9, 61.1-97.6</td>
<td>15</td>
<td>12</td>
<td>80.0, 48.8-94.4</td>
</tr>
<tr>
<td>Bronchitis + COPD medication</td>
<td>21</td>
<td>8</td>
<td>38.1, 19.1-61.7</td>
<td>27</td>
<td>4</td>
<td>14.8, 5.3-35.1</td>
</tr>
<tr>
<td>Bronchitis only</td>
<td>19</td>
<td>8</td>
<td>42.1, 21.1-66.5</td>
<td>23</td>
<td>6</td>
<td>26.1, 11.4-49.1</td>
</tr>
<tr>
<td>Symptoms + spirometry</td>
<td>15</td>
<td>9</td>
<td>60.0, 31.8-82.9</td>
<td>19</td>
<td>4</td>
<td>21.1, 7.3-47.3</td>
</tr>
<tr>
<td>Symptoms only</td>
<td>9</td>
<td>2</td>
<td>22.2, 3.9-67.0</td>
<td>23</td>
<td>2</td>
<td>8.7, 1.9-31.4</td>
</tr>
</tbody>
</table>
Table S2: The PPV and proportion of patients diagnosed with COPD who were current smokers

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Number current smokers</th>
<th>Number confirmed COPD</th>
<th>PPV and 95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPD Code + spirometry + COPD medication</td>
<td>49</td>
<td>44</td>
<td>89.9, 77.1-95.8</td>
</tr>
<tr>
<td>COPD Code + spirometry</td>
<td>51</td>
<td>39</td>
<td>76.5, 62.5-86.4</td>
</tr>
<tr>
<td>COPD Code + COPD medication</td>
<td>55</td>
<td>46</td>
<td>83.6, 71.0-91.4</td>
</tr>
<tr>
<td>COPD Code only</td>
<td>47</td>
<td>41</td>
<td>87.2, 73.8-94.3</td>
</tr>
<tr>
<td>Bronchitis + COPD medication</td>
<td>67</td>
<td>34</td>
<td>50.7, 38.7-62.7</td>
</tr>
<tr>
<td>Bronchitis only</td>
<td>64</td>
<td>19</td>
<td>29.7, 19.6-42.3</td>
</tr>
<tr>
<td>Symptoms + spirometry</td>
<td>50</td>
<td>20</td>
<td>40.0, 27.1-54.5</td>
</tr>
<tr>
<td>Symptoms only</td>
<td>58</td>
<td>6</td>
<td>10.3, 4.6-21.7</td>
</tr>
</tbody>
</table>

Table S3: The PPV and proportion of patients diagnosed with COPD by COPD severity

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>GOLD 1 Number confirmed, (PPV and 95% CI)</th>
<th>GOLD 2 Number confirmed, (PPV and 95% CI)</th>
<th>GOLD 3 Number confirmed, (PPV and 95% CI)</th>
<th>GOLD 4 Number confirmed, (PPV and 95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPD Code + spirometry + COPD medication</td>
<td>9, (69.2, 36.5-89.8)</td>
<td>34, (87.2, 71.8-94.8)</td>
<td>22, (100)</td>
<td>6, (100)</td>
</tr>
<tr>
<td>COPD Code + spirometry</td>
<td>8, (66.7, 32.9-89.1)</td>
<td>35, (83.3, 68.2-92.1)</td>
<td>20, (100)</td>
<td>3, (75, 4.1-99.5)</td>
</tr>
<tr>
<td>COPD Code + COPD medication</td>
<td>14, (82.4, 53.7-94.9)</td>
<td>32, (84.2, 68.1-93.0)</td>
<td>20, (95.2, 69.1-99.4)</td>
<td>6, (100)</td>
</tr>
<tr>
<td>COPD Code only</td>
<td>14, (82.4, 53.7-94.9)</td>
<td>37, (86.0, 71.5-93.8)</td>
<td>14, (93.3, 58.4-99.3)</td>
<td>3, (100)</td>
</tr>
<tr>
<td>Bronchitis + COPD medication</td>
<td>7, (36.8, 17.3-62.0)</td>
<td>20, (76.9, 55.6-89.9)</td>
<td>11, (91.7, 49.9-99.2)</td>
<td>2, (100)</td>
</tr>
<tr>
<td>Bronchitis only</td>
<td>3, (20.0, 5.6-51.2)</td>
<td>7, (63.6, 28.8-83.3)</td>
<td>10, (100)</td>
<td>1, (100)</td>
</tr>
<tr>
<td>Symptoms + spirometry</td>
<td>4, (57.1, 15.0-90.9)</td>
<td>19, (90.5, 66.0-97.9)</td>
<td>10, (90.9, 46.3-99.1)</td>
<td>1, (100)</td>
</tr>
<tr>
<td>Symptoms only</td>
<td>2, (40, 3.8-91.9)</td>
<td>6, (100)</td>
<td>0, (100)</td>
<td>0, (100)</td>
</tr>
<tr>
<td>Algorithm</td>
<td>Number in algorithm</td>
<td>Number confirmed COPD</td>
<td>PPV and 95% CI</td>
<td>Number in algorithm</td>
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<tr>
<td>-----------</td>
<td>---------------------</td>
<td>-----------------------</td>
<td>----------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>COPD Code + spirometry + COPD medication</td>
<td>32</td>
<td>28</td>
<td>87.5, 69.8-95.5</td>
<td>53</td>
</tr>
<tr>
<td>COPD Code + spirometry</td>
<td>14</td>
<td>11</td>
<td>78.6, 46.0-94.0</td>
<td>66</td>
</tr>
<tr>
<td>COPD Code + COPD medication</td>
<td>27</td>
<td>23</td>
<td>85.2, 64.9-94.7</td>
<td>61</td>
</tr>
<tr>
<td>COPD Code only</td>
<td>21</td>
<td>16</td>
<td>76.2, 51.7-90.5</td>
<td>68</td>
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<tr>
<td>Bronchitis + COPD medication</td>
<td>94</td>
<td>42</td>
<td>44.7, 34.8-55.0</td>
<td>5</td>
</tr>
<tr>
<td>Bronchitis only</td>
<td>83</td>
<td>22</td>
<td>26.5, 18.0-37.2</td>
<td>5</td>
</tr>
<tr>
<td>Symptoms + spirometry</td>
<td>63</td>
<td>28</td>
<td>44.4, 32.4-57.1</td>
<td>22</td>
</tr>
<tr>
<td>Symptoms only</td>
<td>64</td>
<td>10</td>
<td>15.6, 8.5-27.0</td>
<td>26</td>
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</tbody>
</table>