

## APPENDIX

### Read codes<sup>1</sup> used to identify 'asthma diagnoses' in primary care electronic health records

Code	Description
<i>Diagnoses</i>	
H33..	Asthma (excluding H333.)
H3120.	Chronic asthmatic bronchitis
H3B..	Asthma-chronic obstructive pulmonary disease overlap syndrome
173A.	Exercise induced asthma
<i>Asthma-related medications</i>	
c1... – c15z. c19.. c1B.. – c1EE. c1c..	Selective Beta-Adrenoceptor Stimulant
c2... (excluding c23..., c24..)	Other Adrenoceptor Stimulants
c3... (excluding c32..)	Anticholinergic Bronchodilators
c4... (excluding c42..., c44..)	Xanthine Bronchodilators
c5... (excluding c52..., c51M., c51N.)	Compound Bronchodilators
c6...	Corticosteroids [Respiratory Use]
c7...	Asthma Prophylaxis
cA...	Leukotriene Receptor Antagonist
ck1..	Omalizumab

### Read codes<sup>1</sup> used to identify 'other respiratory conditions' in primary care electronic health records

Code	Description
171..	Cough (no exclusions)
C370.	Cystic fibrosis (excluding C3700-C3701, C3703-C3709, C370y, C370z)
H0...	Acute respiratory infections (excluding H01..., H020., H021., H04.., H040., H0600-H0605, H0609, H060A, H0610-H0614, H07, H0y..., H0z..)
H2...	Pneumonia and influenza (excluding H203, H20y, H220., H221., H22y, H230, H232, H233, H23z, H24..., H25., H26., H27y, H27z, H28., H29., H2A, H2y..)
H30..	Recurrent wheezy bronchitis (no exclusions)
A33..	Whooping cough (no exclusions)
F512.	Glue ear (excluding F5121, F512z)
F52..	Suppurative and unspecified otitis media (excluding F5203, F521.-F524.)

<sup>1</sup> 5 byte version 2 Read codes obtained from NHS UK Read Codes Version 2 release 21.0.0\_20160401000001 April 2016 combined terminology release  
<https://isd.digital.nhs.uk/trud3/user/guest/group/0/pack/9/subpack/21/releases>