S1 Table. Description of ICD codes used for outcome and composite control

Outcome group	Inclusions	Exclusions
All-cause pneumonia	Viral pneumonia, not elsewhere classified (J12) Pneumonia due to Streptococcus pneumoniae (J13) Pneumonia due to Haemophilus influenzae (J14) Bacterial pneumonia, not elsewhere classified (J15) Pneumonia due to other infectious organisms, not elsewhere classified (J16) Pneumonia, organism unspecified (J18) Congenital pneumonia (P23)	Not applicable
Control groups	Inclusions	Exclusions
A20_B99_a_D50_D89	Certain zoonotic bacterial diseases (A20-A28) Infections with a predominantly sexual mode of transmission (A50-A64) Other spirochetal diseases (A65-A69) Other diseases caused by chlamydia (A70-A74) Rickettsioses (A75-A79) Viral infections of the central nervous system (A80-A89) Arthropod-borne viral fevers and viral haemorrhagic fevers (A90-A99) Viral infections characterized by skin and mucous membrane lesions (B00-B09) Viral hepatitis (B15-B19) Human immunodeficiency virus [HIV] disease (B20-B24) Other viral diseases (B25-B34) Mycoses (B35-B49) Protozoal diseases (B50-B64) Helminthiases (B65-B83) Pediculosis, ascariasis and other infestations (B85-B89) Sequelae of infectious and parasitic diseases (B90-B94) Other infectious diseases (B99) Infections specific to the perinatal period (P35-P39) Nutritional anaemias (D50-D53) Haemolytic anaemias (D55-D59) Aplastic and other anaemias (D60-D64) Coagulation defects, purpura and other hemorrhagic conditions (D65-D69) Other diseases of blood and blood-forming organs (D70-D76) Certain disorders involving the immune mechanism (D80-D89)	Streptococcal septicaemia (A40) Other septicaemia (A41) Bacterial infection of unspecified site (A49) Bacterial sepsis of new-born (P36)
A16_A19	Tuberculosis (A16-A19)	None
A20_A48	Certain zoonotic bacterial diseases (A20-A28) Other bacterial diseases (A30-A49)	
A39	Meningococcal infection (A39)	
A50_A79	Infections with a predominantly sexual mode of transmission (A50-A64) Other spirochetal diseases (A65-A69)	

Control groups	Inclusions	Exclusions
	Other diseases caused by chlamydia (A70-A74) Rickettsioses (A75-A79)	
A80_B34	Viral infections of the central nervous system (A80-A89) Arthropod-borne viral fevers and viral hemorrhagic fevers (A90-A99) Viral hepatitis (B15-B19) Other viral diseases (B25-B34)	Measles (B05) Rubella [German measles] (B06) Human immunodeficiency virus [HIV] disease (B20-B24)
B05_B06	Measles (B05) Rubella [German measles] (B06)	None
B20_B24	Human immunodeficiency virus [HIV] disease (B20-B24)	None
B35_B49	Mycoses (B35-B49)	None
B45	Cryptococcosis (B45)	None
B50_B89	Protozoal diseases (B50-B64) Helminthiases (B65-B83) Pediculosis, acariasis and other infestations (B85-B89)	None
B99	Other and unspecified infectious diseases (B99)	None
C00_D49	Neoplasms (C00-D48)	None
E00_E89	Endocrine, nutritional and metabolic diseases (E00-E88)	None
E10_E14	Diabetes mellitus (E10-E14)	None
E40_E46	Malnutrition (E40-E46)	None
F01_F99	Mental and behavioural disorders (F01-F99)	None
G05_G99	Diseases of the nervous system (G00-G98)	Bacterial meningitis, not elsewhere classified (G00) Meningitis due to other and unspecified causes (G03) Encephalitis, myelitis, and encephalomyelitis (G04)
H00_H99_excl_cj_om	Diseases of the eye and adnexa (H00-H57)	Conjunctivitis (H10) Non-suppurative otitis media (H65) Suppurative and unspecified otitis media (H66) Mastoiditis and related conditions (H70) Other disorders of middle ear and mastoid (H74)
100_199	Diseases of the circulatory system (I00-I99)	None
160_164	Subarachnoid haemorrhage (I60) Intracerebral haemorrhage (I61) Other non-traumatic intracranial haemorrhage (I62)	None

Intracranial r	specified as haemorrhage or infarction (I64) non-traumatic haemorrhage of foetus and new-born (P52)	
J00_J99_excl_PI_bron Diseases of	the respiratory system (J00-J98)	Influenza and pneumonia (J10-J18) Other acute lower respiratory infections (J20-J22)
J20_J22 Other acute	lower respiratory infections (J20-J22)	None
Influenza du	ue to identified influenza virus (J10)	None
K00_K95 Diseases of	the digestive system (K00-K92)	None
K35 Acute apper	ndicitis (K35)	None
K80 Cholelithiasi	is (K80)	None
L00_L99 Diseases of	the skin and subcutaneous tissue (L00-L98)	None
M00_M99 Diseases of	the musculoskeletal system and connective tissue (M00-M99)	None
N00_N99 Diseases of	the genitourinary system (N00-N98)	None
N39 Other disord	ders of urinary system (N39)	None
O00_O99 Pregnancy,	childbirth and the puerperium (O00-O99)	None
P00 P15 (P00-P04)	ffected by maternal factors and by complications of pregnancy, labour and delivery elated to length of gestation and foetal growth (P05-P08) a (P10-P15)	None
Slow foetal of	growth and foetal malnutrition (P05) Elated to short gestation and low birthweight, not elsewhere classified (P07)	None
	malformations, deformations and chromosomal abnormalities (Q00-Q99)	None
Symptoms a Abnormal fir Abnormal fir Abnormal fir diagnosis (R	and signs involving the circulatory and respiratory systems (R00-R09) and signs involving the digestive system and abdomen (R10-R19) and signs involving the skin and subcutaneous tissue (R20-R23) and signs involving the nervous and musculoskeletal systems (R25-R29) and signs involving the urinary system (R30-R39) and signs involving cognition, perception, emotional state and behaviour (R40-R46) and signs involving speech and voice (R47-R49) and signs involving speech and voice (R47-R49) and signs on examination of blood, without diagnosis (R70-R79) and signs on examination of urine, without diagnosis (R80-R82) and signs on examination of other body fluids, substances and tissues, without R83-R89) and signs on diagnostic imaging and in function studies, without diagnosis (R90-R94)	None
		None
S00_T88 Injury, poiso	oning and certain other consequences of external causes (S00-T98)	None