Supplementary material

Table of contents

Table 1. Codes/terms used to identify individuals with Intellectual Disability in CPRD GOLD database

Legend

1) Medcode: unique code found in CPRD GOLD database, corresponding to the Read code/term used for coding in UK General Practice

2) Read term and Read code: these are used for classification of medical conditions, procedures, service user events in UK general practice. NB One condition can be described by more than one Read code/term

3) Rows 1-103: general codes (i.e. codes directly indicating an intellectual disability but without a specified cause) and service user codes (codes indirectly indicating an intellectual disability)

4) Rows 104-217: codes indicating a specific medical condition which in the majority of cases is associated with an intellectual disability

5) Rows 32, 41, 59: learning difficulties codes. Individuals with these codes were excluded if in their record a code indicating a specific learning difficulty was also found (e.g. dyslexia, dyscalculia) as these individuals would be unlikely to have a global intellectual impairment.

6) Individuals with intellectual disabilities were identified by the presence in their records of any of the Read codes/terms in this list. However, individual records may have contained several such codes.

Row	Medcode	Read code	Read term
1	1787	E30..00	Mild mental retardation, IQ in range 50-70
2	28740	Eu70.00	[X]Mild mental retardation
3	33949	Eu70.12	[X]Mild mental subnormality
4	39016	Eu70y00	[X]Mild mental retardation, other impairments of behaviour
5	50606	Eu70z00	[X]Mild mental retardation without mention impairment behav
6	99774	Eu81600	[X]Mild learning disability
7	39412	Eu70100	[X]Mld mental retard sig impairment behav req attent/treatmt
8	46504	Eu70000	[X]Mld mental retard with statement no or min impairm behav
9	302	E310.00	Moderate mental retardation, IQ in range 35-49
10	34734	Eu71.11	[X]Moderate mental subnormality
11	54881	Eu71100	[X]Mod mental retard sig impairment behav req attent/treatmt
12	59407	Eu71y00	[X]Mod retard oth behav impair
13	60473	Eu71z00	[X]Mod mental retardation without mention impairment behav
14	60913	Eu71000	[X]Mod mental retard with statement no or min impairm behav
15	6123	Eu71.00	[X]Moderate mental retardation
16	98342	Eu81400	[X]Moderate learning disability
17	27691	Eu72.11	[X]Severe mental subnormality
18	36143	Eu72.00	[X]Severe mental retardation
19	4825	E311.00	Severe mental retardation, IQ in range 20-34
20	50751	Eu72100	[X]Sev mental retard sig impairment behav req attent/treatmt
21	50947	Eu72000	[X]Sev mental retard with statement no or min impairm behav
22	55560	Eu72z00	[X]Sev mental retardation without mention impairment behav
23	55848	Eu72y00	[X]Severe mental retardation, other impairments of behaviour
24	98293	Eu81500	[X]Severe learning disability
25	100648	Eu81700	[X]Profound learning disability
26	45133	E312.00	Profound mental retardation with IQ less than 20
27	51268	Eu73.00	[X]Profound mental retardation
28	60062	Eu73z00	[X]Prfnd mental retardation without mention impairment behav
29	65468	Eu73.11	[X]Profound mental subnormality
30	90276	Eu73y00	[X]Profound mental retardation, other impairments of behavr
31	98100	Eu73100	[X]Profound ment retard sig impairmnt behav req attent/treat
32	106116	Z7CD211	LD - Learning difficulties

33	107968	Eu81800	[X]Specific learning disability
34	110427	13VC900	Intellectual development disorder of unknown aetiology
35	11866	Z7CBE00	Intellectual functioning disability
36	1278	E310.11	Imbecile
37	1362	E3...00	Mental retardation
38	1680	E30..11	Educationally subnormal
39	16855	Eu81z12	[X]Learning disorder NOS
40	19436	ZS34.11	Learning disability
41	2052	13Z4E00	Learning difficulties
42	28962	Eu7..00	[X]Mental retardation
43	30362	R034y11	[D]Global retardation
44	32820	Eu7zz00	[X]Unsp mental retardation without mention impairment behav
45	34174	Eu84112	[X]Mental retardation with autistic features
46	36045	Eu81z13	[X]Learn acquisition disab NOS
47	37867	E3z..00	Mental retardation NOS
48	37887	Eu7z.11	[X]Mental deficiency NOS
49	37911	Eu7z.12	[X]Mental subnormality NOS
50	4246	6664	Mental handicap problem
51	42520	Eu7yy00	[X]Other mental retardation, other impairments of behaviour
52	42589	Eu7z.00	[X]Unspecified mental retardation
53	42886	Eu7z000	[X]Unsp mental retard with statement no or min impairm behav
54	4477	Eu81z11	[X]Learning disability NOS
55	51622	E312.11	Idiocy
56	51954	E30..12	Feeble-minded
57	52602	Eu84400	[X]Overactive disorder assoc mental retard/stereotype movts
58	54179	E31z.00	Other specified mental retardation NOS
59	56376	Z7CD200	Learning difficulties
60	56547	Eu7y100	[X]Oth mental retard sig impairment behav req attent/treatmt
61	56577	E31..00	Other specified mental retardation
62	57199	E3y..00	Other specified mental retardation
63	63273	Eu7yz00	[X]Other mental retardation without mention impairment behav
64	66383	Eu7zy00	[X]Unspecified mental retardatn, other impairments of behav
65	66783	Eu7z100	[X]Unsp mentl retard sig impairment behav req attent/treatmt
66	70008	Eu7y000	[X]Oth mental retard with statement no or min impairm behav
67	71196	Eu7y.00	[X]Other mental retardation
68	71632	E30..13	Moron
69	84154	Eu70.11	[X]Feeble-mindedness
70	97406	ZLD2f00	Discharge by psychiatrist for mental handicap
71	100729	9HB7.00	Did not attend learning disabilities annual health assessmnt
72	100730	9HB6.00	Learning disabilities annual health assessment declined
73	100965	9HB6.11	Learning disabilities annual health check declined
74	100980	9hL..00	Exception reporting: learning disability quality indicators
75	102234	9HB7.11	Did not attend learning disabilities annual health check
76	103187	8Ce6.00	Preferred place of care - learning disability unit
77	106219	9mA..00	Learning disability annual health check invitation
78	106247	9mA2.00	Learning disability annual health check letter invitation
79	106248	9mA1.00	Learning disability annual health check telephone invitation

80	106249	9mA0.00	Learning disability annual health check verbal invitation
81	106272	9mA2000	Learning disability annual health check invtation 1st letter
82	106274	9mA2100	Learning disability annual health check invtation 2nd letter
83	106276	9mA2200	Learning disability annual health check invtation 3rd letter
84	110002	9Nlh.00	Seen by learning disability team
85	110792	9Nh4.00	Under care of community learning disability team
86	18815	8HHP.00	Referral to learning disability team
87	19445	9HB..00	Learning disabilities administration status
88	22760	918e.00	On learning disability register
89	32511	9HB3.00	Learning disabilities health assessment
90	32588	ZL1B500	Under care of psychiatrist for mental handicap
91	32667	8Hg2.00	Discharge from learning disability team
92	32924	ZLE9400	Discharge from mental handicap psychiatry service
93	32952	9HB5.00	Learning disabilities annual health assessment
94	38954	ZL9D500	Seen by psychiatrist for mental handicap
95	40894	ZL5B500	Referral to psychiatrist for mental handicap
96	41391	9HB1.00	Learning disabilities health action plan offered
97	43436	9HB4.00	Learning disabilities health action plan completed
98	43445	9HB2.00	Learning disabilities health action plan reviewed
99	43447	9HB0.00	Learning disabilities health action plan declined
100	66203	ZR3c.11	CASP - Communic assess profile adults with mental handicap
101	93406	9N0y.00	Seen in learning disabilities clinic
102	94684	8H4f.00	Referral to learning disabilities psychiatrist
103	96895	69DB.00	Learning disability health examination
104	101309	PJ02.11	Partial trisomy 21 in Down's syndrome
105	10759	PJ0z.00	Down's syndrome NOS
106	1543	PJ0..00	Down's syndrome - trisomy 21
107	18415	PJ0..12	Trisomy 21
108	23489	PJ0..11	Mongolism
109	32010	PJ01.00	Trisomy 21, mosaicism
110	42701	PJ00.00	Trisomy 21, meiotic nondisjunction
111	61499	PJ02.00	Trisomy 21, translocation
112	61627	PJ0z.11	Trisomy 21 NOS
113	100024	PJ50800	Trisomy 22
114	100174	PJ51z00	Partial trisomy syndrome NOS
115	101732	PJ50y00	Other specified whole chromosome trisomy syndrome
116	37702	PJ50.00	Whole chromosome trisomy syndromes
117	45512	PJ50x00	Whole chromosome trisomy, mosaicism
118	71815	PJ51000	Major partial trisomy
119	100507	PJ33400	Jacobsen syndrome
120	102102	PJ12.11	Partial trisomy 13 in Patau's syndrome
121	35665	PJ1..00	Patau's syndrome - trisomy 13
122	72265	PJ1z.00	Patau's syndrome NOS
123	19038	PJ1z.11	Trisomy 13 NOS
124	43565	PJ11.00	Trisomy 13, mosaicism
125	46133	PJ12.00	Trisomy 13, translocation
126	72139	PJ10.00	Trisomy 13, meiotic nondisjunction

127	103139	C375400	Mucopolysaccharidosis, type IV
128	104999	C375z00	Mucopolysaccharidosis NOS
129	22851	C375.00	Mucopolysaccharidosis
130	35585	46T3.00	Urine mucopolysaccharides
131	61650	C375200	Mucopolysaccharidosis, type II
132	62762	C375600	Mucopolysaccharidosis, type VI
133	67762	F103100	Cerebral degeneration in mucopolysaccharidoses
134	69381	C375100	Mucopolysaccharidosis, type 1
135	70439	C375300	Mucopolysaccharidosis, type III
136	103536	PJ51500	15q partial trisomy syndrome
137	103582	PJ33600	Chromosome 22q11 deletion syndrome
138	10955	C391100	Di George syndrome
139	12840	PJ3y011	Velocardiofacial syndrome
140	103873	PJ20.00	Trisomy 18, meiotic nondisjunction
141	107162	PJ22.11	Partial trisomy 18 in Edward's syndrome
142	33642	PJ2..00	Edward's syndrome - trisomy 18
143	39017	PJ2z.00	Edward's syndrome NOS
144	46787	PJ2z.11	TRISOMY 18 NOS
145	67234	PJ21.00	Trisomy 18, mosaicism
146	104100	PKy7311	Rubinstein-Taybi syndrome
147	43325	PKy7300	Rubenstein - Tayi syndrome
148	104196	PJ33800	Chromosome 4q deletion syndrome
149	105514	PJ33A00	Kleefstra syndrome
150	106114	PJ51400	Trisomy 9p syndrome
151	109223	PJ50311	Trisomy 9 Mosaic Syndrome
152	65509	PJ50300	Trisomy 9
153	10628	PJyy200	Fragile X chromosome
154	32603	PJyy400	Fragile X syndrome
155	106590	PKy5K00	Cohen syndrome
156	106717	PKyM.00	Johanson-Blizzard syndrome
157	107029	PJ51200	10q partial trisomy syndrome
158	110833	PJ50400	Trisomy 10
159	108375	PG5F.00	Acrodysostosis
160	111120	PJ33113	18q deletion syndrome
161	95440	PJ33100	Deletion of long arm of chromosome 18
162	12841	PJ3y000	Shprintzen syndrome
163	1391	C327100	Gaucher's disease
164	16087	PKy4.000	William syndrome
165	21169	F101300	Tay-Sach's disease
166	73990	F101.11	Amaurotic familial idiocy
167	21418	PKy6011	Cornelia de Lange syndrome
168	50457	PKy6000	Amsterdam dwarf
169	25306	PKyz511	Angelman syndrome
170	97059	PKyz700	Angelman's syndrome
171	98617	PKyz711	Angelman syndrome
172	46766	PKyz500	Happy puppet syndrome
173	27280	PKy0.12	Prader-Willi syndrome

174	41461	PKy0.11	Prader-Willi Syndrome
175	28663	PKy9200	Menke's syndrome
176	69127	PKy9211	Kinky hair syndrome
177	31042	Eu84200	[X]Rett's syndrome
178	31426	PKy1.00	Laurence-Moon-Biedl syndrome
179	101999	Eu84311	[X]Dementia infantalis
180	31599	E141.11	Heller's syndrome
181	46429	Eu84313	[X]Heller's syndrome
182	62222	Eu84312	[X]Disintegrative psychosis
183	56143	E141.00	Disintegrative psychosis
184	68299	Eu84300	[X]Other childhood disintegrative disorder
185	31795	PJ31.00	Cri-du-chat syndrome
186	98941	PJ31.11	Deletion of short arm of chromosome 5
187	33522	PKy6300	Smith - Lemli - Opitz syndrome
188	33948	PJ32.11	Wolff - Hirschorn syndrome
189	66566	PJ32.00	Deletion of short arm of chromosome 4
190	34719	PKy6400	Seckel syndrome
191	34792	F250500	Lennox-Gastaut syndrome
192	36314	C1zy211	Sotos syndrome
193	44476	C1zy200	Cerebral gigantism
194	36871	PJ33300	Smith-Magenis syndrome
195	37402	PF55.11	Apert's syndrome
196	41840	PF55000	Acrocephalosyndactyly (Apert)
197	63274	PF55.00	Acrocephalosyndactyly
198	50251	PF55100	Acrocephalosyndactyly (Pfeiffer)
199	37591	PJ50100	Trisomy 7
200	37924	PKy5F00	Coffin-Lowry syndrome
201	46516	C327200	Niemann-Pick disease
202	65343	F102100	Cerebral degeneration in Niemann-Pick disease
203	4749	PK61.00	Sturge-Weber syndrome
204	47974	F130600	Aicardi Goutieres syndrome
205	48084	PKy9400	Zellweger's syndrome
206	57043	PKy6600	Dubowitz syndrome
207	57806	PJ30.11	Deletion of long arm of chromosome 21
208	67298	PJ33000	Deletion of long arm of chromosome 13
209	67927	C372300	Lesch-Nyhan syndrome
210	69476	PJ50200	Trisomy 8
211	70198	PJ50600	Trisomy 12
212	93694	PJ9..00	Mowat-Wilson syndrome
213	93963	F101600	Sandhoff disease
214	97927	PJ33200	Deletion of short arm of chromosome 18
215	98753	P228300	Aicardi syndrome
216	33939	P21z.00	Microcephalus NOS
217	5712	P21..00	Microcephalus

Table 2. Codes/terms used to characterise individuals in the CPRD GOLD database identified only by a general Intellectual Disability Read term/code

Legend
1) Medcode: unique code found in CPRD GOLD database, corresponding to the Read code/term used for coding in UK General Practice
2) Read term and Read code: these are used for classification of medical conditions, procedures, service user events in UK general practice. NB One condition can be described by more than one Read code/term
3) Type of condition. 1: congenital and hereditary syndromes; 2: perinatal complications; 3: congenital malformations and other abnormalities; 4: central nervous system infections; 5: cerebral palsy; 6: autism and Attention Deficit Disorder; 7: acquired post-natal brain lesions
NB Codes from each of the above categories were found in the study ID population but not every code in each category was found.

Medcode	Read code	Read term	Type of condition
65121	PHz..11	Congenital ectodermal defect	1
11513	PH30.00	Congenital ectodermal dysplasia	1
100627	F23y511	Congenital suprabulbar paresis	1
95132	F23y500	Worster-Drought syndrome	1
22174	F390z00	Congenital hereditary muscular dystrophy NOS	1
64690	F390.00	Congenital hereditary muscular dystrophy	1
68118	F391.00	Hereditary progressive muscular dystrophy	1
71128	F391y00	Other specified hereditary progressive muscular dystrophy	1
21425	F391z00	Hereditary progressive muscular dystrophy NOS	1
41904	F391600	Ocular muscular dystrophy	1
48036	F391100	Erb's muscular dystrophy	1
5393	F391000	Duchenne muscular dystrophy	1
36671	F391400	Facioscapulohumeral muscular dystrophy	1
34985	F391A00	Emery-Dreifuss muscular dystrophy	1
5964	F39B.00	Muscular dystrophy	1
91544	F391200	Pelvic muscular dystrophy	1
28210	F391300	Other limb-girdle muscular dystrophy	1
95892	P226000	Congenital bilateral perisylvian syndrome	1
31853	PKyz600	Congenital hemihypertrophy	1
46937	F365.00	Neuropathy in association with hereditary ataxia	1
97916	Q007111	Fetal alcohol syndrome	1
23945	PK80.00	Fetal alcohol syndrome	1
4479	PK5..00	Tuberous sclerosis	1
12067	B927.11	Von Recklinghausen's disease	1
16854	B927.00	Neurofibromatosis - Von Recklinghausen's disease	1
23455	BBe1.12	[M]Von Recklinghausen's disease	1
100900	B927.12	Neurofibromatosis type 1	1
101052	B929.00	Neurofibromatosis type 2	1
4119	7G03H00	Excision of neurofibromata	1
36785	BBe1.11	[M]Multiple neurofibromatosis	1
765	BBe1.00	[M]Neurofibromatosis NOS	1
59749	BBe3.00	[M]Melanotic neurofibroma	1
12016	BBe4.00	[M]Plexiform neurofibroma	1
26309	BBe0.00	[M]Neurofibroma NOS	1
67445	N374C00	Scoliosis in neurofibromatosis	1

3023	BBe..11	[M]Neurofibromas	1
106103	F368200	Hereditary motor and sensory neuropathy type III	1
32527	F368.00	Hereditary motor and sensory neuropathy	1
39528	F360.00	Hereditary peripheral neuropathy	1
7635	F362.00	Hereditary sensory neuropathy	1
38401	F360z00	Hereditary peripheral neuropathy NOS	1
35465	F368100	Hereditary motor and sensory neuropathy type II	1
56910	F368000	Hereditary motor and sensory neuropathy type I	1
93159	C03y100	Congenital hypothyroidism without goitre	1
51481	C03z.00	Congenital hypothyroidism NOS	1
10097	C03..00	Congenital hypothyroidism	1
69290	C03y.00	Other specified congenital hypothyroidism	1
31612	C03y000	Congenital hypothyroidism with diffuse goitre	1
58833	Q433700	Neonatal jaundice with congenital hypothyroidism	1
108482	1JM0.00	Suspected congenital hypothyroidism	1
39166	C0A1.00	Congenital iodine-deficiency syndrome, myxoedematous type	1
96787	C0A..00	Congenital iodine deficiency syndrome	1
72331	C0A0.00	Congenital iodine-deficiency syndrome, neurological type	1
73317	L252.00	Fetus with hereditary disease	1
56006	F1z..00	Hereditary and degenerative diseases of the CNS NOS	1
100666	L252z00	Fetus with hereditary disease NOS	1
61968	F1y..00	Hereditary and degenerative diseases of the CNS OS	1
34092	F1...00	Hereditary and degenerative diseases of the CNS	1
61640	L252000	Fetus with hereditary disease unspecified	1
107618	1JY..00	Suspected hereditary disease	1
73575	PKy6z00	Congenital malformation syndrome with short stature NOS	1
57953	PKy6.00	Congenital malformation syndromes with short stature	1
67260	PKy5z00	Congenital malform syndrome affecting facial appearance NOS	1
100310	PKy8z00	Congenital malformation syndrome+other skeletal changes NOS	1
94910	PKy9.00	Congenital malformation syndromes with metabolic disturbance	1
49363	Q200100	Subdural haemorrhage unspecified, due to birth trauma	2
23447	Q200000	Cerebral haemorrhage unspecified, due to birth trauma	2
61682	Q208.00	Cerebral oedema due to birth injury	2
110910	Qyu2100	[X]Other specified brain damage due to birth injury	2
54567	Q203400	Fracture of skull due to birth trauma	2
8021	Q21z.13	Birth asphyxia	2
63360	Q412000	Subarachnoid haemorrhage due to birth injury	2
98603	Q20X.00	Birth injury to central nervous system, unspecified	2
4543	Q21z.00	Liveborn with birth asphyxia NOS	2
46424	Q216.00	Mild to moderate birth asphyxia - apgar score 4-7 at 1 min	2
38164	Q200411	Cerebral injury due to birth trauma	2
67184	Q200z00	Subdural or cerebral haemorrhage due to birth trauma NOS	2
43595	Q2...00	Birth trauma, asphyxia and hypoxia	2
34694	Q200.00	Subdural and cerebral haemorrhage due to birth trauma	2
48731	Q200700	Cerebral haemorrhage due to birth injury	2
41296	Q21..00	Intrauterine hypoxia and birth asphyxia	2

63806	Q200y00	Subdural or cerebral haemorrhage due to birth trauma OS	2
70312	Q200300	Tentorial tear due to birth trauma	2
38330	Q200400	Brain injury due to birth trauma NOS	2
40868	Q200z11	Birth brain damage NOS	2
8070	14I2.00	H/O: birth asphyxia	2
15082	Q215.00	Severe birth asphyxia - apgar score less than 4 at 1 minute	2
46446	Q200200	Local subdural haematoma due to birth trauma	2
57771	Q411300	Intraventricular haemorrhage due to birth injury	2
45002	Q412.00	Perinatal subarachnoid haemorrhage	2
95119	14I5.00	H/O: perinatal cerebral irrit.	2
104764	L236200	Hydrocephalic disproportion with antenatal problem	2
48202	Q48A.00	Neonatal cerebral leukomalacia	2
56614	Q488.00	Neonatal cerebral ischaemia	2
106012	Q48F.11	Perinatal hypoxic - ischaemic encephalopathy	2
24792	Q31y611	Neonatal apnoeic attack	2
25415	Q411.00	Perinatal intraventricular haemorrhage	2
48012	Q437.00	Kernicterus not due to isoimmunisation	2
61800	Q437z00	Kernicterus of newborn NOS	2
31452	Q424.00	Kernicterus due to isoimmunisation	2
61533	L270200	Polyhydramnios with antenatal problem	2
52950	Q013.00	Fetus or neonate affected by maternal polyhydramnios	2
60841	Q013.11	Fetus affected by hydramnios	2
2239	L270100	Polyhydramnios - delivered	2
56834	L27..00	Polyhydramnios and hydramnios	2
64728	L270z00	Polyhydramnios NOS	2
73111	L270000	Polyhydramnios unspecified	2
15485	L27..11	Hydramnios	2
11294	L270.00	Polyhydramnios	2
73646	L27z.00	Polyhydramnios NOS	2
21133	F4K5100	Congenital nystagmus	3
8722	Q48y200	Congenital hypotonia	3
10665	F591400	Congenital sensorineural deafness	3
19244	P356.11	Optic disc congenital anomalies	3
107323	F591A00	Bilateral congenital sensorineural hearing loss	3
53239	6371	Birth HC = < 3rd centile	3
36974	P2y1.00	Congenital spinal cord anomaly	3
28353	P23z.00	Congenital hydrocephalus NOS	3
111641	P23y.00	Other specified congenital hydrocephalus	3
101703	P11z.14	Congenital hernia of dura mater	3
105277	Pyu0300	[X]Other specified congenital malformations of brain	3
64134	P248.00	Congenital dilated lateral ventricles of brain	3
18808	PE0..13	Skull congenital deformities	3
17914	PE0..00	Skull, face and jaw congenital deformities	3
9611	P23..00	Congenital hydrocephalus	3
41775	P228000	Congenital absence of corpus callosum	3

58981	PK8..00	Congenital malformation syndromes due to known exogen causes	3
101703	P11z.14	Congenital hernia of dura mater	3
105277	Pyu0300	[X]Other specified congenital malformations of brain	3
64134	P248.00	Congenital dilated lateral ventricles of brain	3
18808	PE0..13	Skull congenital deformities	3
17914	PE0..00	Skull, face and jaw congenital deformities	3
9611	P23..00	Congenital hydrocephalus	3
41775	P228000	Congenital absence of corpus callosum	3
58981	PK8..00	Congenital malformation syndromes due to known exogen causes	3
30344	14HZ.00	H/O: congenital anomaly NOS	3
52137	Pyu1.00	[X]Congenital malformations of eye, ear, face and neck	3
54258	PE0z.00	Skull, face or jaw congenital deformities NOS	3
68208	P300200	Congenital absence of eye	3
30123	PE0..12	Jaw congenital deformities	3
36168	PE0..11	Face congenital deformities	3
98773	Pyu8400	[X]Other congenital deformities of skull, face and jaw	3
100673	Pyu0100	[X]Other congenital hydrocephalus	3
37784	P4z1.00	Congenital anomaly of face NOS	3
64425	Pyu9B00	[X]Other specified congenital malformations	3
45918	P25y200	Congenital anomaly of spinal meninges	3
25316	P22A000	Congenital absence of cerebellum	3
299	P330.00	Congenital cataract, unspecified	3
70700	P33y.00	Other specified congenital cataract or lens anomaly	3
90279	P33yz00	Other congenital cataract or lens anomaly NOS	3
4148	P33..00	Congenital cataract and lens anomalies	3
99424	P33y100	Congenital membranous cataract	3
45926	P33z.00	Congenital cataract or lens anomaly NOS	3
60425	P332000	Cortical cataract - congenital	3
71623	P334z00	Total or subtotal congenital cataract NOS	3
39081	P334000	Total congenital cataract	3
63212	P333.00	Nuclear cataract - congenital	3
71733	P240z00	Congenital cerebral cyst NOS	3
53474	P20..13	Congenital cerebral hernia	3
95632	P240.11	Congenital intracerebral cyst	3
3663	ZV13600	[V]Personal history of congenital malformations	3
65095	Pyu9.00	[X]Other congenital malformations	3
103611	P227100	Congenital hypoplasia of cerebrum	3
65088	P2...00	Other nervous system congenital anomalies	3
62537	PKzz.00	Congenital anomaly NOS	3
17050	PG02.00	Congenital forehead deformity	3
10396	P....00	Congenital anomalies	3
28113	F427J00	Leber's congenital amaurosis	3
8319	P360.00	Congenital ptosis	3
60195	P245.00	Congenital adhesions of cerebral meninges	3
16530	PK7..00	Multiple congenital anomalies NOS	3

39391	P240.00	Congenital cerebral cyst	3
8893	P2y0.00	Congenital brain anomaly	3
107846	P240000	Single congenital cerebral cyst	3
36463	PK...00	Other and unspecified congenital anomalies	3
54569	PKy0.00	Multiple system congenital anomalies NEC	3
111629	PK24100	Congenital absence of pituitary gland	3
59734	Py...00	Other specified congenital anomaly	3
98724	PK7z.00	Multiple congenital anomalies NOS	3
109441	P240100	Multiple congenital cerebral cysts	3
3374	PK25100	Congenital absence of thyroid gland	3
20838	14H..00	H/O: congenital anomaly	3
45706	F4H1600	Leber's hereditary optic atrophy	3
55893	P7y0000	Congenital anomaly of cerebral vessel, unspecified	3
24424	P7y0100	Congenital cerebral arteriovenous aneurysm	3
36666	P7y0200	Congenital brain aneurysm NEC	3
95800	P7y0111	Congenital arteriovenous fistula of brain	3
36116	P201.00	Encephalomyelocele	3
6866	P113.00	Spinal meningocele	3
99299	P114200	Thoracic meningomyelocele	3
52130	P204.00	Meningoencephalocele	3
103527	P202.00	Hydromeningocele - cranial	3
61862	P113300	Lumbar spinal meningocele	3
47827	P114300	Lumbar meningomyelocele	3
5307	7043100	Closure of spinal myelomeningocele	3
27686	P203.00	Meningocele - cerebral	3
91600	P113200	Thoracic spinal meningocele	3
67351	P113100	Cervical spinal meningocele	3
25282	P203.11	Meningocele - cranial	3
99332	P114000	Meningomyelocele of unspecified site	3
57611	P114z00	Meningomyelocele NOS	3
9722	P114.00	Meningomyelocele	3
50365	P113z00	Spinal meningocele NOS	3
53578	P111.00	Spinal hydromeningocele	3
29633	7043200	Closure of spinal meningocele	3
53929	P113000	Spinal meningocele of unspecified site	3
29739	7031000	Repair of meningoencephalocele	3
40237	F292300	Cyst of the spinal meninges	3
63513	P101.11	Closed spina bifida with Arnold-Chiari malformation	3
50565	P100200	Thoracic spina bifida with hydrocephalus	3
103284	P102300	Lumbar spina bifida with hydrocephalus - open	3
46790	P10..00	Spina bifida with hydrocephalus	3
59218	P10y000	Dandy - Walker syndrome with spina bifida	3
72928	P103400	Sacral spina bifida with hydrocephalus - closed	3
47288	P102z00	Spina bifida with hydrocephalus - open NOS	3
5431	P11..00	Spina bifida without mention of hydrocephalus	3

50672	7043y00	Other specified repair of spina bifida	3
109243	P100100	Cervical spina bifida with hydrocephalus	3
68221	P110100	Cervical spina bifida without mention of hydrocephalus	3
98298	P100z00	Spina bifida with hydrocephalus NOS	3
57243	P102200	Thoracic spina bifida with hydrocephalus - open	3
102628	P104.00	Spina bifida with hydrocephalus of late onset	3
64717	P10z.00	Spina bifida with hydrocephalus NOS	3
98280	P11z.00	Spina bifida without mention of hydrocephalus NOS	3
60623	P102400	Sacral spina bifida with hydrocephalus - open	3
105767	P103300	Lumbar spina bifida with hydrocephalus - closed	3
9298	7043	Repair of spina bifida	3
56362	P105.00	Spina bifida with stenosis of aqueduct of Sylvius	3
98811	P102.00	Spina bifida with hydrocephalus - open	3
73085	P10y.00	Other specified spina bifida with hydrocephalus	3
106579	Pyu0400	[X]Unspecified spina bifida with hydrocephalus	3
21802	P1z..00	Spina bifida NOS	3
62742	7043z00	Repair of spina bifida NOS	3
5306	P100000	Spina bifida with hydrocephalus, unspecified	3
3947	P1...00	Spina bifida	3
42497	P100.00	Unspecified spina bifida with hydrocephalus	3
96709	P110200	Thoracic spina bifida without mention of hydrocephalus	3
57113	P100300	Lumbar spina bifida with hydrocephalus	3
93902	P103.00	Spina bifida with hydrocephalus - closed	3
90482	P103z11	Thoracolumbar spina bifida with hydrocephalus - closed	3
96407	P110300	Lumbar spina bifida without mention of hydrocephalus	3
53471	P102.14	Rachischisis with hydrocephalus	3
45734	F117.00	Infantile posthaemorrhagic hydrocephalus	3
97663	P233.12	Hydrocephalus with atresia of foramina of Magendie+Luschka	3
3584	F115.00	Hydrocephalus	3
52683	P102.13	Myelocele with hydrocephalus	3
104943	P102.11	Fissured spine with hydrocephalus	3
107207	P235.00	X-linked hydrocephalus	3
66516	P115300	Lumbar myelocele	3
31775	P115.00	Myelocele	3
43593	P11y.11	Syringomyelocele	3
94598	P115100	Cervical myelocele	3
73712	P115z00	Myelocele NOS	3
67878	P112.00	Hydromyelocele	3
10256	222L.00	O/E - dysmorphic features	3
7462	PG0z.11	Dysmorphic features	3
30403	7A61000	Excision of congenital arteriovenous malformation	3
70280	Q402100	Congenital listeriosis	4
112021	Ayu4100	[X]Other late congenital syphilis, symptomatic	4
112020	Ayu4000	[X]Early congenital syphilis, unspecified	4
19584	Q401.00	Congenital cytomegalovirus infection	4
111987	A904100	Congenital syphilitic encephalitis	4

96395	A902.00	Early congenital syphilis NOS	4
50581	A900.12	Congenital syphilitic choroiditis	4
111989	A905z00	Other late congenital syphilis NOS	4
46401	A905000	Congenital syphilitic gumma	4
55651	A900.00	Early congenital syphilis with symptoms	4
99123	Q40y012	Congenital septicaemia	4
55606	Q40y011	Congenital sepsis NOS	4
96206	A905.00	Other late congenital syphilis	4
96000	A907.00	Unspecified late congenital syphilis	4
27420	A90..00	Congenital syphilis	4
107917	Q402311	Congenital hydrocephalus due to toxoplasmosis	4
49922	Q402312	Lymphadenopathy due to congenital toxoplasmosis	4
25304	Q402300	Congenital toxoplasmosis	4
107176	Ayu4300	[X]Congenital syphilis, unspecified	4
48725	A906.00	Latent late congenital syphilis	4
60039	A90z.00	Congenital syphilis NOS	4
92295	A901.00	Early latent congenital syphilis	4
57279	A904200	Congenital syphilitic meningitis	4
112022	Ayu4200	[X]Late congenital syphilis, unspecified	4
69219	A900.14	Congenital syphilitic epiphysitis	4
111983	A900.15	Congenital syphilitic hepatomegaly	4
22157	A900.16	Congenital syphilitic osteochondritis	4
111984	A900.17	Congenital syphilitic pemphigus	4
111982	A900.11	Congenital syphilitic periostitis	4
16650	A900.13	Congenital syphilitic chronic coryza	4
111985	A900.18	Congenital syphilitic splenomegaly	4
72315	F007400	Meningitis due to congenital syphilis	4
24024	A905200	Syphilitic saddle nose	4
20151	Q400.00	Congenital rubella	4
43003	Q402000	Congenital herpes simplex	4
61089	A905300	Late congenital syphilitic oculopathy	4
52505	A4y0.00	Enteroviral encephalitis	4
100599	Ayu8A00	[X]Other specified viral encephalitis	4
69405	F030911	Herpes zoster encephalitis	4
52408	F031.00	Encephalitis due to rickettsia EC	4
5398	A4zz.11	Viral encephalitis NOS	4
35375	F033.00	Encephalitis due to other infection EC	4
57276	F030500	Encephalitis due to mumps virus	4
72309	F030200	Encephalitis due to poliomyelitis	4
99925	F033300	Encephalitis due to tuberculosis	4
29781	AE20.00	Late effects of viral encephalitis	4
64190	A4zy500	Adenoviral encephalitis	4
110877	AyuJ800	[X]Sequelae of viral encephalitis	4
47375	A531400	Zoster encephalitis	4
68273	F030711	Cytomegaloviral encephalitis	4

42744	A620.00	Japanese encephalitis	4
46740	A4zy400	Von Economo's encephalitis	4
51692	F030900	Encephalitis due to herpes zoster	4
20252	A361.00	Meningococcal encephalitis	4
2423	F03z.00	Encephalitis NOS	4
89869	A4zy000	Acute inclusion body encephalitis	4
53080	F03y.00	Other causes of encephalitis	4
111987	A904100	Congenital syphilitic encephalitis	4
29901	E2A3.00	Post-encephalitic syndrome	4
71467	A63y000	Langat encephalitis	4
112003	A94y000	Syphilitic encephalitis	4
103077	A63yz00	Other tick-borne viral encephalitis NOS	4
8115	F033011	Meningococcal encephalitis	4
4311	A543.00	Herpetic meningoencephalitis	4
65624	F035z00	Postinfectious encephalitis NOS	4
54934	F030400	Encephalitis due to herpes simplex virus	4
36335	A520.00	Postvaricella encephalitis	4
40323	F03X.00	Bacterial meningoencephalitis+meningomyelitis,NEC	4
95336	Fyu0500	[X]Bacterial meningoencephalitis+meningomyelitis,NEC	4
48018	F035.00	Postinfectious encephalitis	4
97778	F033311	Tuberculous encephalitis	4
105830	F032000	Encephalitis due to malaria	4
97267	F030700	Encephalitis due to cytomegalovirus	4
69335	F030800	Encephalitis due to influenza-specific virus not identified	4
41245	F030411	Herpes simplex encephalitis	4
61458	A4zy100	Acute necrotising encephalitis	4
59202	A136.00	Tuberculous encephalitis or myelitis	4
28131	F032011	Malarial encephalitis	4
45838	E2A3.11	Post-encephalitis syndrome	4
20054	A550.00	Postmeasles encephalitis	4
112352	F030600	Encephalitis due to rubella virus	4
99730	Fyu0A00	[X]Encephalitis,myelitis+encephalomyelitis/other diseases CE	4
51105	F123.00	Postencephalitic parkinsonism	4
67787	F033000	Encephalitis due to meningococcus	4
65548	F034800	Post smallpox vaccination encephalitis	4
35938	F030211	Poliomyelitis encephalitis	4
66055	A4zy200	Epidemic encephalitis	4
7567	1472	H/O: encephalitis	4
25252	F03..00	Encephalitis, myelitis and encephalomyelitis	4
51962	AD00.00	Toxoplasma meningoencephalitis	4
51384	F035011	Encephalitis due to varicella	4
31972	F030611	Rubella encephalitis	4
47634	F033411	Toxoplasmosis encephalitis	4
101625	Ayu8800	[X]Tick-borne viral encephalitis, unspecified	4
73146	Ayu8B00	[X]Unspecified viral encephalitis	4

32181	A4zy300	Encephalitis lethargica	4
93360	A136000	Tuberculous encephalitis	4
35344	F033z00	Unspecified encephalitis due to other infection EC	4
42240	F030z00	Encephalitis in viral disease NOS	4
61712	A62..00	Mosquito-borne viral encephalitis	4
105627	Fyu0600	[X]Other encephalitis, myelitis and encephalomyelitis	4
62098	A62y.11	Ilheus virus encephalitis	4
72549	F033111	Syphilis encephalitis	4
42730	F035000	Encephalitis following chickenpox	4
102964	A62y.00	Other specified mosquito-borne virus encephalitis	4
58574	F030.00	Encephalitis in viral disease EC	4
66247	F033400	Encephalitis due to toxoplasmosis	4
104680	Fyu0800	[X]Encephalitis,myelitis+encephalomyelitis/viral disease CE	4
62737	A63..00	Tick-borne viral encephalitis	4
4075	F030511	Mumps encephalitis	4
73435	F033100	Encephalitis due to congenital syphilis	4
43791	A130300	Tuberculous meningoencephalitis	4
97992	F032100	Encephalitis due to trypanosomiasis	4
112427	F030300	Encephalitis due to arthropod-borne virus	4
52677	A412.00	Subacute sclerosing panencephalitis	4
32004	A722.00	Mumps encephalitis	4
37427	F035100	Encephalitis following measles	4
39263	A64..00	Viral encephalitis from other arthropods	4
112040	F033200	Encephalitis due to syphilis unspecified	4
50084	Eu06100	[X]Postencephalitic syndrome	4
71658	F030A00	Encephalitis due to influenza-virus identified	4
72072	A136z00	Tuberculous encephalitis or myelitis NOS	4
23807	A560100	Rubella encephalomyelitis	4
61707	F03y.11	Encephalomyelitis NOS	4
95623	F03z.11	Encephalomyelitis NOS	4
5061	F03..11	Encephalomyelitis	4
21936	A365.00	Meningococcal meningitis with acute meningococcal septicaem	4
69322	A130z00	Tuberculous meningitis NOS	4
63007	F00z.00	Bacterial meningitis NOS	4
56366	F007800	Meningitis due to pertussis	4
59496	A918000	Acute secondary syphilitic meningitis	4
24577	A366.00	Meningococcal meningitis with meningococcal septicaemia	4
43411	F011700	Varicella meningitis	4
6902	F011.00	Meningitis due to viral organisms EC	4
50934	A421.00	ECHO viral meningitis	4
34410	A420.00	Coxsackie viral meningitis	4
68629	A362100	Chronic meningococcaemia	4
6838	F00..00	Bacterial meningitis	4
97624	F007200	Meningitis due to neurosyphilis	4
57895	F011211	Herpes zoster meningitis	4
107659	F007700	Meningitis due to actinomycosis	4

34412	F01z.00	Meningitis due to organism NOS	4
52697	F00y611	Pseudomonas meningitis	4
69547	AB65200	Cryptococcal meningitis	4
11975	A130.00	Tuberculous meningitis	4
60737	A942.00	Syphilitic meningitis	4
5544	A553.00	Measles complicated by meningitis	4
72924	Ayu3D00	[X]Meningococcal infection, unspecified	4
68978	F00y411	Klebsiella meningitis	4
37292	Ayu8D00	[X]Viral meningitis, unspecified	4
73327	A36y.00	Other specified meningococcal infection	4
28287	F011411	Mumps meningitis	4
1705	A36..00	Meningococcal infection	4
40589	F011000	Meningitis due to coxsackie virus	4
57281	A022100	Salmonella meningitis	4
7038	1471	H/O: meningitis	4
8115	F033011	Meningococcal encephalitis	4
112016	A98y100	Gonococcal meningitis	4
99930	Ayu3B00	[X]Meningococcaemia, unspecified	4
50648	A36yz00	Other specified meningococcal infection NOS	4
40088	F01y000	Meningitis due to leptospira	4
65853	A42y.00	Other specified viral meningitis	4
45009	A54x100	Herpes simplex meningitis	4
48106	F020.00	Nonpyogenic meningitis	4
54151	AA0y000	Leptospiral meningitis	4
97348	F00y.00	Other specified bacterial meningitis	4
69606	AB32.00	Coccidioidal meningitis	4
44889	F011100	Meningitis due to ECHO virus	4
70181	F00y511	Proteus morganii meningitis	4
54290	F011400	Meningitis due to mumps virus	4
112346	Ayu3C00	[X]Other meningococcal infections	4
52479	F00y200	Meningitis due to escherichia coli	4
39757	A36z.00	Meningococcal infection NOS	4
112039	F007000	Meningitis due to gonococcus	4
17208	A36y000	Meningococcal optic neuritis	4
442	A360.00	Meningococcal meningitis	4
94724	F011611	Adenovirus meningitis	4
50054	Ayu8C00	[X]Other viral meningitis	4
60157	AB40100	Histoplasma capsulatum with meningitis	4
71464	F011200	Meningitis due to herpes zoster virus	4
29874	A721.00	Mumps meningitis	4
2422	F011500	Meningitis due to lymphocytic choriomeningitis virus	4
70408	F00y500	Meningitis due to proteus morganii	4
31983	F010000	Meningitis due to cryptococcus	4
46388	F00y212	Escherichia coli meningitis	4
42699	F00y211	Meningitis due to escherichia coli	4

11736	F005.00	Meningitis - meningococcal	4
107144	P114100	Cervical meningomyelocele	4
3945	F02..00	Meningitis of unspecified cause	4
72095	F00yz00	Other specified bacterial meningitis NOS	4
2386	F02z.00	Unspecified meningitis	4
99700	F007.00	Meningitis in other bacterial disease classified elsewhere	4
4605	F001.00	Pneumococcal meningitis	4
50303	F003.00	Staphylococcal meningitis	4
54321	F011300	Meningitis due to herpes simplex virus	4
63388	AB2y200	Candidal meningitis	4
41208	A13..00	Tuberculosis of meninges and central nervous system	4
66554	F007z00	Unspecified meningitis in bacterial disease EC	4
68274	A4z1.00	Adenoviral meningitis	4
72733	F011600	Meningitis due to adenovirus	4
12551	A42..00	Meningitis due to enterovirus	4
72193	F00y400	Meningitis due to klebsiella pneumoniae	4
1703	A362.00	Meningococcal septicaemia	4
45839	F011511	Lymphocytic choriomeningitis	4
67432	F011z11	Acute aseptic meningitis	4
105982	Fyu0000	[X]Other bacterial meningitis	4
50873	F007100	Meningitis due to listeriosis	4
72646	F012.00	Meningitis due to trypanosomiasis	4
2169	A42z.00	Viral meningitis NOS	4
44618	F01yz00	Other non-bacterial meningitis NOS	4
11976	F004.00	Meningitis - tuberculous	4
61657	F010.00	Meningitis due to fungal organisms	4
41811	F011y00	Other viral meningitis	4
27627	F01..00	Meningitis due to other organisms	4
90288	F00y600	Meningitis due to pseudomonas	4
45182	F011311	Herpes simplex meningitis	4
49633	F022.00	Chronic meningitis	4
33601	A4z0.00	Lymphocytic choriomeningitis	4
2845	F000.00	Haemophilus meningitis	4
4396	F002.00	Streptococcal meningitis	4
100075	Fyu0100	[X]Meningitis in viral diseases classified elsewhere	4
61924	Fyu0400	[X]Meningitis due to other specified causes	4
72444	F007600	Meningitis due to typhoid fever	4
11929	F011z00	Meningitis - viral NOS	4
44944	A530.00	Herpes zoster with meningitis	4
66107	F00y100	Meningitis due to bacillus pyocyaneus	4
50677	A362000	Acute meningococcaemia	4
72216	F007300	Meningitis due to salmonella	4
66314	F137111	Congenital athetosis	5
53178	F23y.00	Other congenital cerebral palsy	5
90520	Fyu9000	[X]Other infantile cerebral palsy	5

105133	F2B1.00	Spastic hemiplegic cerebral palsy	5
104654	F2Bz.00	Cerebral palsy NOS	5
107551	F23y600	Choreoathetoid cerebral palsy	5
104775	F230111	Spastic diplegic cerebral palsy	5
73943	F137.11	Athetoid cerebral palsy	5
21548	F23y000	Ataxic infantile cerebral palsy	5
16977	F137000	Athetoid cerebral palsy	5
5512	F230100	Cerebral palsy with spastic diplegia	5
104828	F23y100	Flaccid infantile cerebral palsy	5
2069	F23..00	Congenital cerebral palsy	5
28306	F23z.00	Congenital cerebral palsy NOS	5
25570	F23y200	Spastic cerebral palsy	5
12666	F23yz00	Other infantile cerebral palsy NOS	5
5560	F23..12	Infantile cerebral palsy	5
104782	F2By.00	Other cerebral palsy	5
49967	F23y300	Dyskinetic cerebral palsy	5
104580	F2B0.00	Spastic quadriplegic cerebral palsy	5
104498	F2B..00	Cerebral palsy	5
52659	F23y400	Ataxic diplegic cerebral palsy	5
53755	Fyu9.00	[X]Cerebral palsy and other paralytic syndromes	5
26681	Q48y300	Congenital hypertonia	5
81446	P2x7.00	Congenital facial nerve palsy	5
48126	F232.11	Tetraplegia - congenital	5
21249	F232.00	Congenital quadriplegia	5
25324	F230.00	Congenital diplegia	5
33925	F233.00	Congenital monoplegia	5
27966	F231.00	Congenital hemiplegia	5
15530	F23..11	Congenital spastic cerebral palsy	5
37160	F230000	Congenital paraplegia	5
99040	F230.11	Paraplegia - congenital	5
50096	F145.00	Congenital nonprogressive ataxia	5
42406	F137.12	Athetosis - congenital	5
45551	F230z00	Congenital diplegia NOS	5
94150	Fyu1000	[X]Other hereditary ataxias	5
3514	F141.00	Hereditary spastic paraplegia	5
26285	Eu9y700	[X]Attention deficit disorder	6
6519	Eu90011	[X]Attention deficit hyperactivity disorder	6
28543	ZS91.00	Attention deficit disorder	6
5565	E2E0.00	Child attention deficit disorder	6
34199	E2E0000	Attention deficit without hyperactivity	6
20467	E2E0z00	Child attention deficit disorder NOS	6
24753	ZS91.12	[X]Attention deficit disorder	6
24808	ZS91.11	ADD - Attention deficit disorder	6
107332	9Ngp.00	On drug ther ADHD (attention deficit hyperactivity disorder)	6
9715	E2E0100	Attention deficit with hyperactivity	6

108002	8BPT.00	Drug therapy ADHD (attention deficit hyperactivity disorder)	6
110264	8BPT000	Stimulant drug therapy for ADHD	6
109779	8BPT100	Non-stimulant drug therapy for ADHD	6
111733	9Ngp000	On stim drug ther ADHD (attention def hyperactivity disordr)	6
69016	E140100	Residual infantile autism	6
24044	Eu84100	[X]Atypical autism	6
26343	1J9..00	Suspected autism	6
42941	Eu84z11	[X]Autistic spectrum disorder	6
1276	E140.12	Autism	6
7302	E140.13	Childhood autism	6
50337	Eu84012	[X]Infantile autism	6
9982	Eu84011	[X]Autistic disorder	6
22098	E140.00	Infantile autism	6
3637	Eu84000	[X]Childhood autism	6
51375	Eu84511	[X]Autistic psychopathy	6
36662	E140z00	Infantile autism NOS	6
34174	Eu84112	[X]Mental retardation with autistic features	6
63251	E140000	Active infantile autism	6
59723	F034000	Post BCG vaccination encephalitis	7
39346	F034J00	Post hepatitis B vaccination encephalitis	7
107155	F034900	Post rabies vaccination encephalitis	7
49070	F034G00	Post influenza vaccination encephalitis	7
68395	F034700	Post pertussis vaccination encephalitis	7
97847	F034A00	Post typhus vaccination encephalitis	7
65184	F034x00	Post mixed vaccination encephalitis	7
39398	F034D00	Post polio vaccination encephalitis	7
46467	F034200	Post paratyphoid vaccination encephalitis	7
66883	F034500	Post tetanus vaccination encephalitis	7
96428	F034z00	Postimmunisation encephalitis NOS	7
67795	F034C00	Post measles vaccination encephalitis	7
36707	F034B00	Post yellow fever vaccination encephalitis	7
31544	F034H00	Post hepatitis A vaccination encephalitis	7
103322	F034F00	Post rubella vaccination encephalitis	7
31510	F034.00	Postimmunisation encephalitis	7
92431	F034E00	Post mumps vaccination encephalitis	7
97865	F034100	Post typhoid vaccination encephalitis	7
27632	S643.00	Diffuse brain injury	7
10201	S64..11	Brain injury NOS	7
32214	S644.00	Focal brain injury	7
107337	S647.00	Acquired brain injury	7

Table 3. Incidence of any fracture in males and females with and without Intellectual Disabilities (ID) by age bands.
Age bands are single years up until age 17, then 18-24, and subsequently in 5-year bands, until 80 which includes events and time at age ≥80 years.

<u>Legend</u>
has_id: 0= No 1= Yes   is_female: 0= No 1= Yes   ageband: lower age limit of ageband (years)   _D: number of fractures
_Y: patientyears (10000 py) of follow-up   _Rate: events/10000 py   _Lower: lower limit of 95% CI for fracture rate
_Upper: upper limit of 95% CI for fracture rate

has_id	is_female	ageband	_D	_Y	_Rate	_Lower	_Upper
0	0	0	77	0.917	83.982	67.171	105.001
0	0	2	97	1.057	91.735	75.181	111.934
0	0	3	125	1.147	108.994	91.468	129.878
0	0	4	154	1.239	124.271	106.116	145.533
0	0	5	170	1.341	126.786	109.091	147.352
0	0	6	214	1.436	149.076	130.383	170.449
0	0	7	232	1.539	150.733	132.533	171.433
0	0	8	277	1.638	169.106	150.320	190.241
0	0	9	297	1.729	171.778	153.312	192.468
0	0	10	426	1.811	235.202	213.895	258.632
0	0	11	465	1.885	246.620	225.193	270.086
0	0	12	635	1.964	323.329	299.134	349.481
0	0	13	781	2.037	383.474	357.501	411.334
0	0	14	722	2.100	343.839	319.652	369.857
0	0	15	702	2.151	326.366	303.094	351.424
0	0	16	581	2.187	265.714	244.963	288.223
0	0	17	536	2.231	240.259	220.756	261.484
0	0	18	3037	15.028	202.096	195.035	209.413
0	0	25	1390	9.239	150.441	142.737	158.562
0	0	30	901	7.695	117.082	109.681	124.982
0	0	35	760	7.143	106.396	99.094	114.235
0	0	40	652	6.952	93.783	86.854	101.265
0	0	45	597	6.562	90.977	83.964	98.575
0	0	50	550	6.036	91.126	83.819	99.069
0	0	55	465	5.318	87.444	79.847	95.765
0	0	60	412	4.397	93.700	85.076	103.199
0	0	65	343	3.288	104.304	93.830	115.948
0	0	70	231	2.247	102.786	90.350	116.933
0	0	75	193	1.391	138.783	120.522	159.811
0	0	80	270	1.043	258.967	229.849	291.775
0	1	0	45	0.541	83.238	62.149	111.484
0	1	2	54	0.620	87.154	66.750	113.794
0	1	3	52	0.661	78.676	59.952	103.248
0	1	4	79	0.702	112.583	90.303	140.359
0	1	5	93	0.747	124.463	101.572	152.513
0	1	6	104	0.805	129.173	106.587	156.544
0	1	7	110	0.855	128.663	106.732	155.100
0	1	8	134	0.893	149.994	126.631	177.666
0	1	9	159	0.937	169.704	145.273	198.242

0	1	10	198	0.975	203.083	176.678	233.435
0	1	11	175	1.005	174.166	150.182	201.980
0	1	12	164	1.047	156.620	134.393	182.521
0	1	13	143	1.078	132.653	112.600	156.279
0	1	14	104	1.100	94.542	78.011	114.576
0	1	15	73	1.118	65.290	51.906	82.124
0	1	16	86	1.135	75.791	61.352	93.628
0	1	17	83	1.155	71.892	57.976	89.148
0	1	18	524	7.358	71.215	65.371	77.581
0	1	25	261	4.677	55.806	49.430	63.004
0	1	30	306	4.338	70.541	63.064	78.905
0	1	35	327	4.523	72.299	64.872	80.575
0	1	40	351	4.967	70.672	63.652	78.466
0	1	45	423	5.199	81.367	73.971	89.503
0	1	50	548	5.077	107.928	99.260	117.354
0	1	55	630	4.562	138.092	127.719	149.307
0	1	60	613	3.792	161.672	149.367	174.991
0	1	65	597	2.969	201.081	185.581	217.876
0	1	70	458	2.135	214.494	195.722	235.065
0	1	75	430	1.476	291.266	264.997	320.139
0	1	80	747	1.505	496.480	462.123	533.391
1	0	0	22	0.187	117.946	77.662	179.127
1	0	2	27	0.239	112.911	77.433	164.646
1	0	3	25	0.274	91.154	61.594	134.902
1	0	4	44	0.313	140.546	104.591	188.860
1	0	5	54	0.348	155.178	118.849	202.611
1	0	6	64	0.378	169.383	132.578	216.407
1	0	7	71	0.407	174.377	138.188	220.044
1	0	8	78	0.429	181.866	145.670	227.055
1	0	9	83	0.450	184.537	148.817	228.831
1	0	10	73	0.463	157.702	125.375	198.364
1	0	11	113	0.473	239.142	198.876	287.562
1	0	12	133	0.481	276.782	233.523	328.055
1	0	13	133	0.485	274.226	231.366	325.025
1	0	14	132	0.484	272.480	229.745	323.163
1	0	15	103	0.482	213.562	176.057	259.057
1	0	16	96	0.476	201.879	165.278	246.585
1	0	17	66	0.473	139.442	109.551	177.488
1	0	18	474	3.026	156.622	143.138	171.376
1	0	25	269	1.794	149.914	133.028	168.943
1	0	30	194	1.595	121.623	105.658	140.000
1	0	35	202	1.573	128.441	111.896	147.433
1	0	40	194	1.548	125.310	108.861	144.244
1	0	45	230	1.390	165.438	145.381	188.262
1	0	50	161	1.139	141.299	121.075	164.901
1	0	55	144	0.875	164.619	139.812	193.826
1	0	60	118	0.676	174.429	145.633	208.920

1	0	65	123	0.476	258.152	216.335	308.054
1	0	70	79	0.295	267.890	214.877	333.983
1	0	75	51	0.158	322.460	245.067	424.296
1	0	80	41	0.109	377.797	278.178	513.090
1	1	0	8	0.108	74.369	37.192	148.709
1	1	2	11	0.138	79.895	44.246	144.266
1	1	3	29	0.156	185.960	129.227	267.598
1	1	4	27	0.171	157.662	108.122	229.902
1	1	5	24	0.187	128.385	86.052	191.542
1	1	6	31	0.203	152.888	107.521	217.397
1	1	7	36	0.216	166.854	120.356	231.314
1	1	8	41	0.223	183.460	135.085	249.159
1	1	9	40	0.236	169.304	124.188	230.809
1	1	10	49	0.244	201.115	152.000	266.100
1	1	11	53	0.248	213.622	163.202	279.619
1	1	12	37	0.255	145.196	105.201	200.398
1	1	13	41	0.260	157.580	116.028	214.011
1	1	14	38	0.260	145.895	106.159	200.504
1	1	15	13	0.259	50.165	29.128	86.393
1	1	16	25	0.258	96.859	65.448	143.344
1	1	17	25	0.257	97.197	65.677	143.844
1	1	18	147	1.709	86.015	73.176	101.106
1	1	25	122	1.111	109.858	91.995	131.188
1	1	30	105	1.061	98.922	81.701	119.774
1	1	35	140	1.097	127.575	108.100	150.559
1	1	40	156	1.125	138.671	118.532	162.232
1	1	45	165	1.073	153.837	132.067	179.195
1	1	50	188	0.939	200.126	173.470	230.879
1	1	55	207	0.754	274.433	239.482	314.484
1	1	60	167	0.551	302.936	260.305	352.549
1	1	65	129	0.387	332.942	280.172	395.651
1	1	70	120	0.262	457.481	382.533	547.113
1	1	75	73	0.180	404.516	321.595	508.816
1	1	80	97	0.171	565.685	463.605	690.242

Table 4. Incidence of major osteoporotic fracture in males and females with and without Intellectual Disabilities (ID) by age bands.
Age bands are single years up until age 17, then 18-24, and subsequently in 5-year bands, until 80 which includes events and time at age ≥80 years.

Legend
has_id: 0= No 1= Yes   is_female: 0= No 1= Yes   ageband: lower age limit of ageband (years)   _D: number of fractures
_Y: patientyears (10000 py) of follow-up   _Rate: events/10000 py   _Lower: lower limit of 95% CI for fracture rate
_Upper: upper limit of 95% CI for fracture rate

has_id	is_female	ageband	_D	_Y	_Rate	_Lower	_Upper
0	0	18	432	24.267	17.802	16.200	19.562
1	0	18	98	4.821	20.329	16.677	24.780
0	0	30	119	7.695	15.464	12.921	18.507
1	0	30	29	1.595	18.181	12.634	26.162
0	0	35	93	7.143	13.019	10.625	15.954
1	0	35	45	1.573	28.613	21.364	38.323
0	0	40	92	6.952	13.233	10.787	16.233
1	0	40	38	1.548	24.545	17.860	33.733
0	0	45	98	6.562	14.934	12.252	18.204
1	0	45	60	1.390	43.158	33.510	55.584
0	0	50	101	6.036	16.734	13.769	20.337
1	0	50	41	1.139	35.983	26.495	48.869
0	0	55	92	5.318	17.301	14.103	21.223
1	0	55	54	0.875	61.732	47.280	80.602
0	0	60	104	4.397	23.652	19.517	28.664
1	0	60	43	0.676	63.563	47.141	85.706
0	0	65	115	3.288	34.971	29.129	41.984
1	0	65	54	0.476	113.335	86.802	147.979
0	0	70	92	2.247	40.936	33.371	50.217
1	0	70	41	0.295	139.032	102.371	188.820
0	0	75	85	1.391	61.122	49.416	75.600
1	0	75	27	0.158	170.714	117.073	248.934
0	0	80	139	1.043	133.320	112.901	157.432
1	0	80	20	0.109	184.291	118.897	285.653
0	1	18	114	12.035	9.472	7.884	11.381
1	1	18	34	2.820	12.059	8.616	16.876
0	1	30	43	4.338	9.913	7.352	13.366
1	1	30	19	1.061	17.900	11.418	28.063
0	1	35	47	4.523	10.392	7.808	13.831
1	1	35	24	1.097	21.870	14.659	32.629
0	1	40	63	4.967	12.685	9.909	16.238
1	1	40	29	1.125	25.779	17.914	37.096
0	1	45	97	5.199	18.659	15.292	22.767
1	1	45	46	1.073	42.888	32.124	57.258
0	1	50	155	5.077	30.527	26.081	35.732
1	1	50	65	0.939	69.193	54.260	88.234
0	1	55	209	4.562	45.811	40.003	52.463
1	1	55	82	0.754	108.712	87.555	134.983

0	1	60	229	3.792	60.396	53.059	68.748
1	1	60	81	0.551	146.933	118.179	182.683
0	1	65	276	2.969	92.962	82.617	104.603
1	1	65	67	0.387	172.923	136.101	219.707
0	1	70	233	2.135	109.120	95.971	124.071
1	1	70	64	0.262	243.990	190.973	311.725
0	1	75	226	1.476	153.084	134.372	174.402
1	1	75	41	0.180	227.194	167.287	308.554
0	1	80	466	1.505	309.718	282.837	339.155
1	1	80	58	0.171	338.245	261.495	437.521

Table 5. Incidence of hip fracture in males and females with and without Intellectual Disabilities (ID) by age bands.
Age bands are single years up until age 17, then 18-24, and subsequently in 5-year bands, until 80 which includes events and time at age ≥80 years.
Legend
has_id: 0= No 1= Yes   is_female: 0= No 1= Yes   ageband: lower age limit of ageband (years)   _D: number of fractures
_Y: patientyears (10000 py) of follow-up   _Rate: events/10000 py   _Lower: lower limit of 95% CI for fracture rate
_Upper: upper limit of 95% CI for fracture rate

has_id	is_female	ageband	_D	_Y	_Rate	_Lower	_Upper
0	0	18	17	24.267	0.701	0.435	1.127
1	0	18	15	4.821	3.112	1.876	5.161
0	0	30	8	7.695	1.040	0.520	2.079
1	0	30	5	1.595	3.135	1.305	7.531
0	0	35	7	7.143	0.980	0.467	2.056
1	0	35	11	1.573	6.994	3.873	12.630
0	0	40	8	6.952	1.151	0.575	2.301
1	0	40	9	1.548	5.813	3.025	11.173
0	0	45	11	6.562	1.676	0.928	3.027
1	0	45	24	1.390	17.263	11.571	25.755
0	0	50	10	6.036	1.657	0.891	3.079
1	0	50	14	1.139	12.287	7.277	20.746
0	0	55	19	5.318	3.573	2.279	5.602
1	0	55	23	0.875	26.293	17.473	39.567
0	0	60	17	4.397	3.866	2.404	6.219
1	0	60	24	0.676	35.477	23.779	52.930
0	0	65	30	3.288	9.123	6.379	13.048
1	0	65	33	0.476	69.260	49.239	97.423
0	0	70	32	2.247	14.239	10.069	20.135
1	0	70	22	0.295	74.602	49.122	113.300
0	0	75	40	1.391	28.763	21.098	39.213
1	0	75	15	0.158	94.841	57.177	157.317
0	0	80	83	1.043	79.608	64.199	98.717
1	0	80	11	0.109	101.360	56.133	183.026
0	1	18	2	12.035	0.166	0.042	0.664
1	1	18	5	2.820	1.773	0.738	4.261
0	1	30	3	4.338	0.692	0.223	2.144
1	1	30	4	1.061	3.768	1.414	10.041
0	1	35	2	4.523	0.442	0.111	1.768
1	1	35	2	1.097	1.823	0.456	7.287
0	1	40	3	4.967	0.604	0.195	1.873
1	1	40	7	1.125	6.222	2.966	13.052
0	1	45	5	5.199	0.962	0.400	2.311
1	1	45	9	1.073	8.391	4.366	16.127
0	1	50	16	5.077	3.151	1.931	5.144
1	1	50	16	0.939	17.032	10.434	27.801
0	1	55	20	4.562	4.384	2.828	6.795
1	1	55	24	0.754	31.818	21.327	47.471
0	1	60	34	3.792	8.967	6.407	12.550
1	1	60	31	0.551	56.234	39.547	79.961

0	1	65	47	2.969	15.831	11.894	21.070
1	1	65	24	0.387	61.943	41.518	92.415
0	1	70	72	2.135	33.720	26.765	42.481
1	1	70	23	0.262	87.684	58.268	131.949
0	1	75	74	1.476	50.125	39.912	62.951
1	1	75	25	0.180	138.533	93.608	205.018
0	1	80	235	1.505	156.189	137.443	177.491
1	1	80	28	0.171	163.291	112.745	236.496