Additional file 1: Supplementary Tables

Table A1 Demographic and health characteristics of people with confirmed SARS-CoV-2 infection (TRE database)

	Adults			Children (under 18)			All		
	No ID	**ID**	**p value**	**No ID**	**ID**	**p value**	**No ID**	**ID**	**p value**
N in the analysis dataset	8408930	45820		2247350	11055		10661045	56880	
Age at covid-19 (median [IQR])	41.79 [29.95, 54.99]	40.79 [27.99, 57.81]	<0.001	11.97 [8.88, 14.89]	13.48 [10.66, 15.79]	<0.001	35.01 [20.75, 51.05]	33.77 [20.96, 54.02]	<0.001
Female (%)	54.0	42.2	<0.001	50.4	35.9	<0.001	53.3	41.0	<0.001
Ethnicity (%)			<0.001			<0.001			<0.001
White	82.8	87.7		82.3	77.7		82.7	85.8	
Asian	9.2	6.5		8.7	11.9		9.1	7.6	
Black	3.7	3.1		2.7	4.1		3.5	3.3	
Mixed	1.9	1.6		3.9	4.2		2.3	2.1	
Other	2.4	1.0		2.4	2.1		2.4	1.2	
IMD decile (mean (SD))	5.36 (2.85)	4.59 (2.74)	<0.001	5.68 (2.93)	4.80 (2.87)	<0.001	5.43 (2.87)	4.63 (2.77)	<0.001

Percent vaccinated at least once	50.8	43.3	<0.001	8.8	14.7	<0.001	41.9	37.8	<0.001
Vaccine, if any: (%)			<0.001						<0.001
AstraZeneca	41.4	58.7		*	*		39.6	54.5	
Moderna	6.6	2.9		*	*		6.3	2.7	
Pfizer	51.9	38.4		*	*		54.0	42.7	
Percent affected by multimorbidity**	13.1	32.4	<0.001	1.7	18.3	<0.001	10.7	29.6	<0.001
Count of Long-Term Conditions (mean (SD))***	1.32 (3.18)	2.60 (4.20)	<0.001	0.17 (0.84)	1.18 (2.64)	<0.001	1.08 (2.89)	2.33 (3.99)	<0.001
Percent affected by polypharmacy****	20.9	55.6	<0.001	3.4	21.8	<0.001	17.3	49.0	<0.001
Count of prescription medications (mean (SD))	2.70 (3.84)	6.28 (5.07)	<0.001	0.77 (1.52)	2.79 (3.49)	<0.001	2.29 (3.57)	5.60 (5.00)	<0.001

* Figures supressed due to disclosure rules.

** Multimorbidity: 3+ LTCs (including ID) of which at least one is physical [9].

*** The count did not include ID.

**** 5+ prescription medications

Table A2 Demographic and health characteristics of people alive on 1 January 2020 who had a primary care record, England (TRE database)

	Adults			Children (under 18)			All		
	No ID	**ID**	**p value**	**No ID**	**ID**	**p value**	**No ID**	**ID**	**p value**
N in the analysis dataset	48,274,905	289,085		12,914,260	76,945		61,189,165	366,030	
Age on 1 Jan 2020 (median [IQR])	47.00 [33.00, 63.00]	39.00 [27.00, 55.00]	<0.001	9.00 [4.00, 14.00]	13.00 [9.00, 16.00]	<0.001	39.00 [22.00, 58.00]	32.00 [20.00, 51.00]	<0.001
Female (%)	50.3	40.6	<0.001	48.9	34.6	<0.001	50.0	39.4	<0.001
Ethnicity (%)			<0.001			<0.001			<0.001
White	81.9	87.5		74.2	73.2		80.2	84.5	
Asian	8.9	6.4		11.9	12.9		9.5	7.8	
Black	3.9	3.3		5.3	6.9		4.2	4.1	
Mixed	1.7	1.6		4.6	4.2		2.3	2.1	
Other	3.7	1.1		4.0	2.8		3.8	1.5	
IMD decile (mean (SD))	5.44 (2.84)	4.54 (2.76)	<0.001	5.20 (2.93)	4.66 (2.85)	<0.001	5.39 (2.86)	4.57 (2.78)	<0.001

Count of Long-Term Conditions (mean (SD))*	1.00 (2.66)	1.48 (3.10)	<0.001	0.18 (0.80)	0.89 (2.22)	<0.001	0.83 (2.41)	1.35 (2.94)	<0.001
Percent affected by multimorbidity**	10.0	19.7	<0.001	1.6	13.7	<0.001	8.2	18.4	<0.001
Count of prescription medications (mean (SD))	2.71 (3.88)	4.95 (4.70)	<0.001	0.62 (1.37)	2.43 (3.27)	<0.001	2.27 (3.60)	4.42 (4.55)	<0.001
Percent affected by polypharmacy***	22.6	44.0	<0.001	2.5	18.6	<0.001	18.3	38.6	<0.001

* The count does not include ID.

** Multimorbidity: 3+ LTCs (including ID) of which at least one is physical.

*** 5+ prescription medications.

Table A3 Demographic and health characteristics of adults who died due to covid-19, by ID status (TRE database)

	No ID	ID	p-value
N in the analysis dataset	160,230	2,040	
Age at covid-19 (median [IQR])	82.94 [73.91, 89.17]	65.57 [56.17, 75.00]	<0.001
Female (%)	45.1	40.9	<0.001
Ethnicity (%)			0.07
White	88.1	89.7	
Asian	6.8	6.3	
Black	3.1	2.6	
Mixed	0.7	0.6	
Other	1.4	0.7	
IMD decile (mean (SD))	5.12 (2.86)	4.54 (2.70)	<0.001
Percent vaccinated at least once	19.2	13.8	<0.001
Vaccine (%):			
AstraZeneca	*	*	
Moderna	*	*	
Pfizer	*	*	
Count of Long-Term Conditions (mean (SD))**	10.05 (5.71)	8.19 (5.42)	<0.001
Percent affected by multimorbidity***	86.3	85.2	0.171
Count of prescription medications (mean (SD))	10.80 (4.54)	10.76 (4.44)	0.708

Percent affected by polypharmacy****	87.8	88.9	0.147

* Figures supressed due to disclosure rules.

** The count does not include ID.

*** Multimorbidity: 3+ LTCs (including ID) of which at least one is physical.

**** 5+ prescription medications.

Table A4 Crude probability of dying due to a cause other than covid-19, by ID status, 2020 (TRE database)

	ID	No ID
Population size*	365,155	61,086,510
Number of non-covid-19 deaths	3,665	451,445
Cumulative incidence (%)	1.00	0.74
That is 1 in …	100	136
Crude Risk Ratio	1.4	
Number of expected non-covid-19 deaths	1,061	reference population
Non-covid-19 SMR [95% CI]	3.5 [3.3-3.7]	

* Number of records in the dataset

Table A5 Probability of severe covid-19 in the whole population, by ID status and year (TRE dataset)

	2020		2021	
	ID	No ID	ID	No ID
Population size*	365,155	61,086,510	365,890	61,675,315
Number of cases of severe covid**	3,835	255,740	4,085	303,560
Cumulative incidence (%)	1.05	0.42	1.12	0.49
That is 1 in …	95	237	88	200
Crude Risk Ratio	2.5		2.3	
Number of expected cases of severe covid-19	870	reference population	1,227	reference population
Severe covid-19 SIR [95% CI]	4.4 [4.3-4.5]		3.3 [3.2-3.4]	

* Number in the analysis dataset

** Unique individuals

*Table A6 Pseudo R-squared and Information Criteria from hierarchical logistic regression predicting the risk of **non-covid-19 death** in 2020 (TRE dataset)*

	ID			No ID		
	Pseudo R2	AIC	BIC	Pseudo R2	AIC	BIC
Intercept-only	0.000	38441.3	-3594224.3	0.000	5063103.1	-848032522.7
As above + age	0.143	32945.9	-3599709.2	0.242	3836820	-849258790
As above + sex	0.143	32945.2	-3599699.3	0.244	3828191.1	-849267403.3
As above + ethnicity	0.143	32946.4	-3599687.5	0.244	3826851.1	-849268727.6

As above + IMD decile	0.143	32948	-3599643.6	0.248	3807953.6	-849287562.3
As above + multimorbidity	0.246	28987.7	-3603593.3	0.370	3190420.7	-849905079.5
As above + polypharmacy	0.273	27963.1	-3604607.3	0.398	3048954.5	-850046530

Table A7 List of SNOMED CT codes used to identify ID

SNOMED CT code	**description**
2593002	Dubowitz's syndrome
5619004	Bardet-Biedl syndrome
10007009	Coffin-Siris syndrome
15182000	Coffin-Lowry syndrome
17122004	4p partial monosomy syndrome
17827007	Cross syndrome
21111006	Complete trisomy 13 syndrome
21634003	Borjeson-Forssman-Lehmann syndrome
31216003	Profound intellectual disability
33982008	Hyperphosphatasemia with intellectual disability
40354009	De Lange syndrome
40700009	Severe intellectual disability
41040004	Complete trisomy 21 syndrome
51500006	Complete trisomy 18 syndrome
56604005	Cohen syndrome
57917004	Seckel syndrome
59252009	Cutis laxa-corneal clouding-oligophrenia syndrome
61152003	Moderate intellectual disability
65327002	Mucopolysaccharidosis type I-H
66758006	Acrodysostosis
68618008	Rett's disorder
70173007	5p partial monosomy syndrome
76880004	Angelman syndrome
79385002	Lowe syndrome
86765009	Mild intellectual disability
89392001	Prader-Willi syndrome
109478007	Kohlschutter's syndrome
110359009	Intellectual disability
205615000	Trisomy 21- meiotic nondisjunction
205616004	Trisomy 21- mitotic nondisjunction mosaicism

205824006	Noonan's syndrome
232059000	Laurence-Moon syndrome
234146006	Lymphedema lymphangiectasia intellectual disability syndrome
253176002	Gillespie syndrome
254264002	Partial trisomy 21 in Down's syndrome
254268004	Partial trisomy 13 in Patau's syndrome
371045000	Translocation Down syndrome
401315004	Smith-Magenis syndrome
403554008	Oculo-cerebro-cutaneous syndrome (aplasia cutis skin tags eye & brain defects)
412787009	Intellectual disability congenital heart disease blepharophimosis blepharoptosis and hypoplastic teeth
416075005	On learning disability register (finding)
422437002	X-linked intellectual disability with marfanoid habitus
432091002	Savant syndrome
442511009	PEHO syndrome
699297004	Ohdo syndrome, Maat-Kievit-Brunner type
699298009	Blepharophimosis-mental retardation syndrome Say-Barber-Biesecker-Young-Simpson type
699669001	Renpenning syndrome
702327009	Monocarboxylate transporter 8 deficiency
702344008	Pitt-Hopkins syndrome
702357000	Chromosome 2q37 deletion syndrome
702412005	Partington syndrome
702416008	Snyder-Robinson syndrome
702816000	Methyl-cytosine phosphate guanine binding protein-2 duplication syndrome
703526007	Progressive epilepsy-intellectual disability syndrome Finnish type
703535000	Mowat-Wilson syndrome
715409005	Trigonocephaly C syndrome
715428003	Skeletal dysplasia with epilepsy and short stature syndrome
715628009	Intellectual disability truncal obesity retinal dystrophy and micropenis syndrome
715989002	Karandikar Maria Kamble syndrome
716024001	GMS syndrome
716089008	Craniofacial digital and genital anomalies syndrome
716096005	Goldblatt Wallis syndrome
716112005	Kawashima Tsuji syndrome
716191002	Alopecia and intellectual disability syndrome
716334004	Intellectual disability and short stature with hand contracture and genital anomaly syndrome
716709002	FRAXE intellectual disability syndrome
716996008	L1 syndrome

717157006	Trisomy 10p
717223008	X-linked epilepsy with learning disability and behavior disorder syndrome
717763008	Chudley Lowry Hoar syndrome
717822006	Goldberg Shprintzen megacolon syndrome
717887003	Biemond syndrome type 2
717945001	BRESEK syndrome
718226002	Wolf Hirschhorn syndrome
718573009	Achalasia microcephaly syndrome
718577005	Atkin Flaitz syndrome
718680001	Oro-facial digital syndrome type 9
718681002	Oro-facial digital syndrome type 11
718766002	Spondyloepiphyseal dysplasia, craniosynostosis, cleft palate, cataract and intellectual disability syndrome
718846001	X-linked intellectual disability Zorick type
718848000	Fried syndrome
718897009	X-linked intellectual disability Seemanova type
718900002	Syndromic X-linked intellectual disability type 11
718905007	X-linked intellectual disability Shrimpton type
718908009	X-linked intellectual disability Siderius type
718909001	X-linked intellectual disability Stevenson type
718910006	X-linked intellectual disability Stocco Dos Santos type
718911005	X-linked intellectual disability Stoll type
718912003	X-linked intellectual disability Turner type
718914002	X-linked intellectual disability Van Esch type
719009006	X-linked intellectual disability Wilson type
719010001	X-linked intellectual disability Schimke type
719011002	X-linked intellectual disability Pai type
719012009	X-linked intellectual disability Miles Carpenter type
719013004	X-linked intellectual disability Cilliers type
719016007	X-linked intellectual disability Cantagrel type
719017003	X-linked intellectual disability Armfield type
719018008	X-linked intellectual disability Abidi type
719020006	Pallister W syndrome
719069008	Shprintzen Goldberg craniosynostosis syndrome
719097002	BSG syndrome
719136005	X-linked intellectual disability with cerebellar hypoplasia syndrome
719137001	X-linked intellectual disability with corpus callosum agenesis and spastic quadriparesis syndrome
719138006	X-linked intellectual disability with cubitus valgus and dysmorphism syndrome
719139003	Pettigrew syndrome
719140001	Prieto Badia Mulas syndrome

719155005	X-linked intellectual disability and epilepsy with progressive joint contracture and facial dysmorphism syndrome
719157002	X-linked intellectual disability and hypotonia with facial dysmorphism and aggressive behaviour syndrome
719160009	Syndromic X-linked intellectual disability type 7
719162001	Radioulnar synostosis with microcephaly and scoliosis syndrome
719202006	Spondyloepiphyseal dysplasia tarda Kohn type
719212004	Smith Fineman Myers syndrome
719378009	Microcephalus with brachydactyly and kyphoscoliosis syndrome
719380003	Microcephalus cardiomyopathy syndrome
719396000	Microcephalus and intellectual disability with phalangeal and neurological anomaly syndrome
719450007	Disorder of sex development with intellectual disability syndrome
719599008	19q13.11 microdeletion syndrome
719800009	DOORS syndrome
719808002	Chromosome Xp11.3 microdeletion syndrome
719810000	X-linked intellectual disability with seizure and psoriasis syndrome
719811001	X-linked intellectual disability Cabezas type
719812008	X-linked intellectual disability with plagiocephaly syndrome
719834005	Wilson Turner syndrome
719842006	Congenital hypoplasia of ulna and intellectual disability syndrome
719909009	Chromosome Xq28 trisomy syndrome
719947004	Temtamy syndrome
720401009	Cystic fibrosis with gastritis and megaloblastic anemia syndrome
720468000	Aniridia and intellectual disability syndrome
720501007	Arachnodactyly with abnormal ossification and intellectual disability syndrome
720517001	Ataxia with deafness and intellectual disability syndrome
720523006	Autosomal recessive limb girdle muscular dystrophy type 2K
720635002	Cerebro-facio-thoracic dysplasia
720639008	Coloboma congenital heart disease ichthyosiform dermatosis intellectual disability ear anomaly syndrome
720746006	Contracture with ectodermal dysplasia and orofacial cleft syndrome
720748007	Cooper Jabs syndrome
720954000	Filippi syndrome
720955004	Fine Lubinsky syndrome
720957007	Deafness with skeletal dysplasia and lip granuloma syndrome
720958002	Frank-Ter Haar syndrome
720979002	Alopecia contracture dwarfism intellectual disability syndrome
720981000	Alopecia and intellectual disability with hypergonadotropic hypogonadism syndrome
720982007	Alport syndrome intellectual disability midface hypoplasia elliptocytosis syndrome

721007005	Hair defect with photosensitivity and intellectual disability syndrome
721008000	Hall Riggs syndrome
721017000	Postaxial polydactyly and intellectual disability syndrome
721073008	Short stature with webbed neck and congenital heart disease syndrome
721087008	Deafness and intellectual disability Martin Probst type syndrome
721089006	Dentinogenesis imperfecta short stature hearing loss intellectual disability syndrome
721146009	Intellectual disability, epilepsy, bulbous nose syndrome
721207002	Seizure sensorineural deafness ataxia intellectual disability electrolyte imbalance syndrome
721208007	Ectodermal dysplasia with blindness syndrome
721224008	Holmes Gang syndrome
721875000	Juberg Marsidi syndrome
721973006	Lipodystrophy intellectual disability deafness syndrome
721974000	Lowry MacLean syndrome
722002002	Intellectual disability balding patella luxation acromicria syndrome
722003007	Intellectual disability with cataract and kyphosis syndrome
722031003	Kapur Toriello syndrome
722033000	Macrocephaly, short stature, paraplegia syndrome
722035007	Intellectual disability enteropathy deafness peripheral neuropathy ichthyosis keratoderma syndrome
722037004	Intellectual disability epileptic seizures hypogonadism and hypogenitalism microcephaly obesity syndrome
722055008	Oculopalatocerebral syndrome
722065002	Okamoto syndrome
722110003	Osteogenesis imperfecta retinopathy seizures intellectual disability syndrome
722111004	Osteopenia, myopia, hearing loss, intellectual disability, facial dysmorphism syndrome
722209002	Spastic paraplegia, intellectual disability, palmoplantar hyperkeratosis syndrome
722213009	Severe X-linked intellectual disability Gustavson type
722281001	Agammaglobulinemia microcephaly craniosynostosis severe dermatitis syndrome
722282008	Agenesis of corpus callosum, intellectual disability, coloboma, micrognathia syndrome
722379001	Congenital cataract with hypertrichosis and intellectual disability syndrome
722380003	Congenital cataract with intellectual disability and hypogonadotropic hypogonadism syndrome
722454003	Intellectual disability, craniofacial dysmorphism, hypogonadism, diabetes mellitus syndrome

722455002	Intellectual disability hypoplastic corpus callosum preauricular tag syndrome
722456001	Intellectual disability, developmental delay, contracture syndrome
722459008	Male hypergonadotropic hypogonadism, intellectual disability, skeletal anomaly syndrome
722478008	Skeletal dysplasia with intellectual disability syndrome
723304001	Microcephaly, seizure, intellectual disability, heart disease syndrome
723332005	Isodicentric chromosome 15 syndrome
723333000	Faciocardiorenal syndrome
723336008	Fallot complex with intellectual disability and growth delay syndrome
723365002	Hypotrichosis and intellectual disability syndrome Lopes type
723403008	Microbrachycephaly, ptosis, cleft lip syndrome
723441001	Non-progressive cerebellar ataxia with intellectual disability
723501008	Renier Gabreels Jasper syndrome
723504000	Ramos Arroyo syndrome
723621000	Spastic tetraplegia, retinitis pigmentosa, intellectual disability syndrome
723676007	Severe intellectual disability epilepsy anal anomaly distal phalangeal hypoplasia syndrome
723994004	Seizures and intellectual disability due to hydroxylysinuria
724001005	Retinitis pigmentosa intellectual disability deafness hypogenitalism syndrome
724137002	Macrocephaly obesity mental disability ocular abnormality syndrome
724207001	Kleefstra syndrome
724228005	Infantile choroidocerebral calcification syndrome
725140007	Temple Baraitser syndrome
725163002	X-linked spasticity intellectual disability epilepsy syndrome
725289009	5-amino-4-imidazole carboxamide ribosiduria
725589005	Bullous dystrophy macular type
725906006	Intellectual disability Buenos Aires type
725908007	Neurofaciodigitorenal syndrome
725912001	X-linked intellectual disability Brooks type
726031001	Cerebellar ataxia intellectual disability optic atrophy skin abnormalities syndrome
726670008	Weaver Williams syndrome
726672000	Short stature, unique facies, enamel hypoplasia, progressive joint stiffness, high-pitched voice syndrome
726709001	Intellectual disability cataract calcified pinna myopathy syndrome
726727003	X-linked intellectual disability Hedera type
726732002	X-linked intellectual disability Nascimento type

732246009	X-linked intellectual disability, limb spasticity, retinal dystrophy, diabetes insipidus syndrome
732251003	Cortical blindness, intellectual disability, polydactyly syndrome
732954002	Osteopenia, intellectual disability, sparse hair syndrome
732961003	Branchial dysplasia intellectual disability inguinal hernia syndrome
733031004	Epilepsy microcephaly skeletal dysplasia syndrome
733032006	Epilepsy telangiectasia syndrome
733049004	Encephalopathy intracerebral calcification retinal degeneration syndrome
733072002	Alaninuria microcephaly dwarfism enamel hypoplasia diabetes mellitus syndrome
733086003	Pseudoprogeria syndrome
733088002	Preaxial polydactyly, colobomata, intellectual disability syndrome
733090001	Microcephalus, digital anomaly, intellectual disability syndrome
733097003	Ichthyosis, intellectual disability, dwarfism, renal impairment syndrome
733110004	Van den Bosch syndrome
733117001	Thumb stiffness, brachydactyly, intellectual disability syndrome
733417008	Facial dysmorphism, macrocephaly, myopia, Dandy-Walker malformation syndrome
733419006	Metaphyseal dysostosis intellectual disability conductive deafness syndrome
733455003	Spastic paraplegia, glaucoma, intellectual disability syndrome
733472005	Microcephalus, glomerulonephritis, marfanoid habitus syndrome
733522005	Megalocornea with intellectual disability syndrome
734017008	Ectodermal dysplasia, intellectual disability, central nervous system malformation syndrome
734349003	Alpha-thalassaemia intellectual disability syndrome linked to chromosome 16
763136000	Charcot-Marie-Tooth disease deafness intellectual disability syndrome
763186006	Grubben, De Cock, Borghgraef syndrome
763320005	Craniofaciofrontodigital syndrome
763350002	Intellectual disability obesity brain malformation facial dysmorphism syndrome
763404001	Ichthyosis alopecia eclabion ectropion intellectual disability syndrome
763615003	Aortic arch anomaly facial dysmorphism intellectual disability syndrome
763618001	Wiedemann Steiner syndrome
763626009	Intellectual disability due to nutritional deficiency
763665007	Craniodigital syndrome and intellectual disability syndrome
763722004	Hypotonia, speech impairment, severe cognitive delay syndrome
763741001	Intellectual disability, alacrima, achalasia syndrome

763742008	Intellectual disability, polydactyly, uncombable hair syndrome
763743003	Intellectual disability spasticity ectrodactyly syndrome
763744009	Intellectual disability brachydactyly Pierre Robin syndrome
763745005	Intellectual disability Wolff type
763773007	Macrocephaly and developmental delay syndrome
763795006	Malan overgrowth syndrome
763797003	Agenesis of corpus callosum and abnormal genitalia syndrome
763837007	Oro-facial digital syndrome type 14
763861000	Pachygyria intellectual disability epilepsy syndrome
764861005	Intellectual disability Birk-Barel type
764950001	Cryptorchidism, arachnodactyly, intellectual disability syndrome
764959000	Intellectual disability myopathy short stature endocrine defect syndrome
765089003	Focal epilepsy intellectual disability cerebro-cerebellar malformation syndrome
765170001	Sodium voltage-gated channel alpha subunit 8-related epilepsy with encephalopathy
765434008	Human immunodeficiency virus type I enhancer binding protein 2 related intellectual disability
765471005	X-linked intellectual disability, hypogonadism, ichthyosis, obesity, short stature syndrome
765761009	Brachydactyly mesomelia intellectual disability heart defect syndrome
766753005	Nijmegen breakage syndrome-like disorder
766870005	Epiphyseal dysplasia, hearing loss, dysmorphism syndrome
766871009	Diencephalic mesencephalic junction dysplasia
768677000	PPP2R5D-related intellectual disability
770401007	10q22.3q23.3 microdeletion syndrome
770411000	Distal monosomy 19p13.3
770564004	Microcephalic primordial dwarfism Alazami type
770566002	Monosomy 13q14 syndrome
770595006	Ring chromosome 12 syndrome
770663003	Tetrasomy 11q24.1
770678005	Progressive encephalopathy with edema hypsarrhythmia and optic atrophy-like syndrome
770679002	Polyneuropathy intellectual disability acromicria premature menopause syndrome
770719004	3q27.3 microdeletion syndrome
770750002	Intellectual disability seizures macrocephaly obesity syndrome
770755007	Intellectual disability seizures hypotonia ophthalmologic skeletal anomalies syndrome
770901001	Autosomal recessive intellectual disability motor dysfunction multiple joint contracture syndrome
770907002	Kagami Ogata syndrome

770908007	49XXXYY syndrome
770948004	Rhizomelic syndrome Urbach type
771072001	Monosomy 9p
771149000	Hepatic fibrosis renal cyst intellectual disability syndrome
771262009	Pseudoleprechaunism syndrome Patterson type
771336003	Polymicrogyria with optic nerve hypoplasia
771472009	Developmental and speech delay due to SRY-box 5 deficiency
771512003	Autism spectrum disorder due to AUTS2 activator of transcription and developmental regulator deficiency
772127009	White Sutton syndrome
773230003	Cyclin-dependent kinase-like 5 deficiency
773329005	CK syndrome
773394007	Autosomal recessive frontotemporal pachygyria
773400009	Severe feeding difficulties failure to thrive microcephaly due to ASXL transcriptional regulator 3 deficiency syndrome
773405004	Intellectual disability with strabismus syndrome
773419004	Severe intellectual disability short stature behavioral abnormalities facial dysmorphism syndrome
773498006	Autosomal recessive cerebellar ataxia epilepsy intellectual disability syndrome due to TUD deficiency
773581009	Intellectual disability craniofacial dysmorphism cryptorchidism syndrome
773665006	Hypogonadotropic hypogonadism severe microcephaly sensorineural hearing loss dysmorphism syndrome
773670004	Distal Xq28 microduplication syndrome
773699009	Pitt Hopkins-like syndrome
773769008	Ataxia photosensitivity short stature syndrome
773772001	Rare non-syndromic intellectual disability
774068004	AHDC1-related intellectual disability obstructive sleep apnea mild dysmorphism syndrome
778011005	Severe intellectual disability and progressive spastic paraplegia
782676009	Distal trisomy 18q
782723007	Severe intellectual disability progressive spastic diplegia syndrome
782736007	Intellectual disability facial dysmorphism syndrome due to SET domain containing 5 haploinsufficiency
782753000	Intellectual disability coarse face macrocephaly cerebellar hypotrophy syndrome
782755007	Primary microcephaly mild intellectual disability young-onset diabetes syndrome
782772000	Congenital muscular dystrophy with intellectual disability and severe epilepsy
782886007	Infantile spasms psychomotor retardation progressive brain atrophy basal ganglia disease syndrome
782941005	Richieri Costa-da Silva syndrome

782945001	Ophthalmoplegia intellectual disability lingua scrotalis syndrome
783005002	Severe microbrachycephaly intellectual disability athetoid cerebral palsy syndrome
783174004	Congenital muscular dystrophy with intellectual disability
783702009	X-linked intellectual disability due to glutamate ionotropic receptor AMPA type subunit 3 mutations
783703004	White matter hypoplasia corpus callosum agenesis intellectual disability syndrome
787093004	Developmental delay facial dysmorphism syndrome due to mediator complex subunit 13 like deficiency
788417006	Alopecia epilepsy intellectual disability syndrome Moynahan type
816067005	Diabetes hypogonadism deafness intellectual disability syndrome
838441009	Mental retardation adducted thumbs shuffling gait aphasia syndrome
840505007	Down syndrome co-occurrent with leukemoid reaction associated transient neonatal pustulosis
879919001	Bilateral megalencephaly
879937000	Alpha-N-acetylgalactosaminidase deficiency type 1
880065001	Alpha-N-acetylgalactosaminidase deficiency type 2
880066000	Alpha-N-acetylgalactosaminidase deficiency type 3
880081006	12q15 deletion syndrome
890118006	Mowat-Wilson syndrome due to monosomy 2q22
890123006	3p25.3 deletion syndrome
890130000	9q34 deletion syndrome
890221004	Acrocardiofacial syndrome
890285006	Bilateral frontal polymicrogyria
890286007	Bilateral frontoparietal polymicrogyria
890433006	Cockayne syndrome type 1
890434000	Cockayne syndrome type 2
1003368009	Molybdenum cofactor deficiency complementation group B
1003373003	Microcephaly with simplified gyral pattern
1003374009	Microlissencephaly
1003387003	Molybdenum cofactor deficiency complementation group C
1003389000	Mosaic 1q duplication
1003409002	Maternal 15q11q13 deletion
1010630006	X-linked complicated corpus callosum dysgenesis
508171000000105	Severe learning disability
889211000000104	Specific learning disability
931001000000105	Significant learning disability
984661000000105	Mild learning disability
984671000000103	Moderate learning disability
984681000000101	Profound learning disability

1089701000000100	Profound intellectual development disorder without impairment of behaviour
1089701000000100	Profound intellectual development disorder without impairment of behaviour
1089711000000100	Profound intellectual development disorder with significant impairment of behaviour
1089711000000110	Profound intellectual development disorder with significant impairment of behaviour
1089721000000100	Profound intellectual development disorder with minimal impairment of behaviour
1089721000000100	Profound intellectual development disorder with minimal impairment of behaviour
1089731000000100	Profound intellectual development disorder with impairment of behaviour
1089731000000100	Profound intellectual development disorder with impairment of behaviour
1089741000000100	Severe intellectual development disorder without significant impairment of behaviour
1089741000000110	Severe intellectual development disorder without significant impairment of behaviour
1089751000000100	Severe intellectual development disorder with significant impairment of behaviour
1089751000000110	Severe intellectual development disorder with significant impairment of behaviour
1089761000000100	Severe intellectual development disorder with minimal impairment of behaviour
1089761000000110	Severe intellectual development disorder with minimal impairment of behaviour
1089771000000100	Severe intellectual development disorder with impairment of behaviour
1089771000000100	Severe intellectual development disorder with impairment of behaviour
1089781000000100	Moderate intellectual development disorder without significant impairment of behaviour
1089791000000100	Moderate intellectual development disorder with significant impairment of behaviour
1089791000000100	Moderate intellectual development disorder with significant impairment of behaviour
1089811000000100	Moderate intellectual development disorder with minimal impairment of behaviour
1089811000000100	Moderate intellectual development disorder with minimal impairment of behaviour
1089821000000100	Moderate intellectual development disorder with impairment of behaviour

1089821000000110	Moderate intellectual development disorder with impairment of behaviour
1089831000000100	Mild intellectual development disorder without significant impairment of behaviour
1089831000000100	Mild intellectual development disorder without significant impairment of behaviour
1089841000000100	Mild intellectual development disorder with significant impairment of behaviour
1089841000000100	Mild intellectual development disorder with significant impairment of behaviour
1089851000000100	Mild intellectual development disorder with minimal impairment of behaviour
1089851000000100	Mild intellectual development disorder with minimal impairment of behaviour
1093991000000100	Mild intellectual development disorder with impairment of behaviour
1093991000000100	Mild intellectual development disorder with impairment of behaviour
1094001000000100	Intellectual development disorder without significant impairment of behaviour
1094001000000110	Intellectual development disorder without significant impairment of behaviour
1094011000000100	Intellectual development disorder with significant impairment of behaviour
1094011000000110	Intellectual development disorder with significant impairment of behaviour
1094021000000100	Intellectual development disorder with minimal impairment of behaviour
1094021000000100	Intellectual development disorder with minimal impairment of behaviour
1094031000000100	Intellectual development disorder with impairment of behaviour
1239331000000100	Significant intellectual disability