Table S1. Code list to create 18 categories of ethnicity, and a 6-category higher level grouping of ethnicity.

6 level grouping	18 level grouping	Read code	Read term	Medcode
White British	White British	9S10.00	White British	12446
White British	White British	9S13.00	White Scottish	26467
White British	White British	9S14.00	Other white British ethnic group	26310
White British	White British	9i00.00	White British - ethnic category 2001 census	98111
White British	White British	9i20.00	English - ethnic category 2001 census	12352
White British	White British	9i21.00	Scottish - ethnic category 2001 census	12436
White British	White British	9i22.00	Welsh - ethnic category 2001 census	12681
White British	White British	9i23.00	Cornish - ethnic category 2001 census	28887
White Non-British	White Irish	9S11.00	White Irish	24837
White Non-British	White Irish	9SA9.00	Irish (NMO)	24270
White Non-British	White Irish	9SI00	Irish traveller	47601
White Non-British	White Irish	9i100	Irish - ethnic category 2001 census	12532
White Non-British	White Irish	9i10.00	White Irish - ethnic category 2001 census	98213
White Non-British	White Irish	9i24.00	Northern Irish - ethnic category 2001 census	42294
White Non-British	White Irish	9i2C.00	Irish Traveller - ethnic category 2001 census	55223
White Non-British	White Other	9S12.00	Other white ethnic group	12444
White Non-British	White Other	9SAA.00	Greek/Greek Cypriot (NMO)	45947
White Non-British	White Other	9SAA.11	Greek (NMO)	45955
White Non-British	White Other	9SAA.12	Greek Cypriot (NMO)	47949
White Non-British	White Other	9SAB.00	Turkish/Turkish Cypriot (NMO)	32066
White Non-British	White Other	9SAB.11	Turkish (NMO)	32126
White Non-British	White Other	9SAB.12	Turkish Cypriot (NMO)	32069
White Non-British	White Other	9SAC.00	Other European (NMO)	12633
White Non-British	White Other	9T100	New Zealand ethnic groups	45008
White Non-British	White Other	9T1Y.00	Other New Zealand ethnic group	96789
White Non-British	White Other	9T1Z.00	New Zealand ethnic group NOS	71425
White Non-British	White Other	9i200	Other White background - ethnic category 2001 census	12421
White Non-British	White Other	9i26.00	Cypriot (part not stated) - ethnic category 2001 census	32778
White Non-British	White Other	9i27.00	Greek - ethnic category 2001 census	12355
White Non-British	White Other	9i28.00	Greek Cypriot - ethnic category 2001 census	12769
White Non-British	White Other	9i29.00	Turkish - ethnic category 2001 census	12746
White Non-British	White Other	9i2A.00	Turkish Cypriot - ethnic category 2001 census	32413
White Non-British	White Other	9i2B.00	Italian - ethnic category 2001 census	12412
White Non-British	White Other	9i2D.00	Traveller - ethnic category 2001 census	55113
White Non-British	White Other	9i2E.00	Gypsy/Romany - ethnic category 2001 census	42290
White Non-British	White Other	9i2F.00	Polish - ethnic category 2001 census	12467
White Non-British	White Other	9i2G.00	Baltic Estonian/Latvian/Lithuanian - ethn categ 2001 census	12433
White Non-British	White Other	9i2H.00	Commonwealth (Russian) Indep States - ethn categ 2001 census	28973
White Non-British	White Other	9i2J.00	Kosovan - ethnic category 2001 census	26341
White Non-British	White Other	9i2K.00	Albanian - ethnic category 2001 census	25422
White Non-British	White Other	9i2L.00	Bosnian - ethnic category 2001 census	46956
White Non-British	White Other	9i2M.00	Croatian - ethnic category 2001 census	28866
White Non-British	White Other	9i2N.00	Serbian - ethnic category 2001 census	47074
White Non-British	White Other	9i2P.00	Other republics former Yugoslavia - ethnic categ 2001 census	28936
White Non-British	White Other	9i2T.00	Other White or White unspecified ethnic category 2001 census	12591
White Non-British	White NOS	9S100	White	22467
White Non-British	White NOS	9SB3.00	Other ethnic, mixed white orig	35459
White Non-British	White NOS	9i25.00	Ulster Scots - ethnic category 2001 census	40102
White Non-British	White NOS	9i2Q.00	Mixed Irish and other White - ethnic category 2001 census	26391
White Non-British	White NOS	9i2R.00	Oth White European/European unsp/Mixed European 2001 census	12402
White Non-British	White NOS	9i2S.00	Other mixed White - ethnic category 2001 census	28900
Mixed	Mixed White and Black	9SB5.00	Black Caribbean and White	32425
Mixed	Mixed White and Black	9SB6.00	Black Carlobcan and White	32443
Mixed	Mixed White and Black	9i300	White and Black Caribbean - ethnic category 2001 census	12742
Mixed	Mixed White and Black	9i400	White and Black African - ethnic category 2001 census	12437
Mixed	Mixed White and Asian	9SB2.00	Other ethnic, Asian/White orig	32401
Mixed	Mixed White and Asian	9i500	White and Asian - ethnic category 2001 census	12638
Mixed	Mixed Asian and Black	9S45.00	Black E Afric Asia/Indo-Caribb	47965
	Mixed Asian and Black	9S45.00 9S45.11	Black East African Asian	
Mixed Mixed				57753 57763
Mixed	Mixed Asian and Black	9S45.12	Black Indo-Caribbean	57763
Mixed	Mixed Asian and Black	9S46.00	Black Indian sub-continent	48005
Mixed	Mixed Asian and Black	9S47.00	Black - other Asian	35350
Mixed Mixed	Mixed Asian and Black Mixed Asian and Black	9S52.00 9SA6.00	Other Black - Black/Asian orig E Afric Asian/Indo-Carib (NMO)	32165 38097

NC 1	M. 14. 151.1	0:60.00	DI 1 1 1 1 1 2 2001	12705
Mixed	Mixed Asian and Black	9i60.00	Black and Asian - ethnic category 2001 census	12795
Mixed	Mixed Asian and Black	9i61.00	Black and Chinese - ethnic category 2001 census	49940
Mixed	Mixed Asian and Black	9iA7.00	Caribbean Asian - ethnic category 2001 census	32399
Mixed	Mixed Other	9SB00	Other ethnic, mixed origin	12696
Mixed	Mixed Other	9SB4.00	Other ethnic, other mixed orig	32420
Mixed	Mixed Other	9i600	Other Mixed background - ethnic category 2001 census	12873
Mixed	Mixed Other	9i63.00	Chinese and White - ethnic category 2001 census	12706
Mixed	Mixed Other	9i64.00	Asian and Chinese - ethnic category 2001 census	47005
Mixed	Mixed Other	9i65.00	Other Mixed or Mixed unspecified ethnic category 2001 census	32408
Mixed	Mixed NOS	9S51.00	Other Black - Black/White orig	25623
Mixed	Mixed NOS	9SB1.00	•	47401
			Other ethnic, Black/White orig	
Mixed	Mixed NOS	9i62.00	Black and White - ethnic category 2001 census	40110
Asian/Asian British	Indian	9S600	Indian	12482
Asian/Asian British	Indian	9SA7.00	Indian sub-continent (NMO)	39696
Asian/Asian British	Indian	9i700	Indian or British Indian - ethnic category 2001 census	12414
Asian/Asian British	Indian	9iA1.00	Punjabi - ethnic category 2001 census	26392
Asian/Asian British	Pakistani	9S700	Pakistani	24690
Asian/Asian British	Pakistani	9i800	Pakistani or British Pakistani - ethnic category 2001 census	12460
Asian/Asian British	Pakistani	9iA2.00	Kashmiri - ethnic category 2001 census	64133
Asian/Asian British	Bangladeshi	9S800	Bangladeshi	24740
Asian/Asian British	Bangladeshi	9i900	Bangladeshi or British Bangladeshi - ethn categ 2001 census	28888
Asian/Asian British	Other Asian	9SA6.11	East African Asian (NMO)	46818
		9SA8.00	* /	
Asian/Asian British	Other Asian		Other Asian (NMO)	26379
Asian/Asian British	Other Asian	9SH00	Other Asian ethnic group	12668
Asian/Asian British	Other Asian	9iA00	Other Asian background - ethnic category 2001 census	12513
Asian/Asian British	Other Asian	9iA3.00	East African Asian - ethnic category 2001 census	47077
Asian/Asian British	Other Asian	9iA8.00	British Asian - ethnic category 2001 census	12653
Asian/Asian British	Other Asian	9iA9.00	Mixed Asian - ethnic category 2001 census	46056
Asian/Asian British	Other Asian	9iAA.00	Other Asian or Asian unspecified ethnic category 2001 census	28935
Asian/Asian British	Other Asian	9SA6.12	Indo-Caribbean (NMO)	99316
Black/Black British	Black Caribbean	9S200	Black Caribbean	12632
Black/Black British	Black Caribbean	9S42.00		57435
			Black Caribbean/W.I./Guyana	
Black/Black British	Black Caribbean	9S42.11	Black Caribbean	47950
Black/Black British	Black Caribbean	9S42.12	Black West Indian	47997
Black/Black British	Black Caribbean	9S42.13	Black Guyana	32100
Black/Black British	Black Caribbean	9SA3.00	Caribbean I./W.I./Guyana (NMO)	54593
Black/Black British	Black Caribbean	9SA3.11	Caribbean Island (NMO)	57094
Black/Black British	Black Caribbean	9SA3.12	West Indian (NMO)	57075
Black/Black British	Black Caribbean	9SA3.13	Guyana (NMO)	93144
Black/Black British	Black Caribbean	9iB00	Caribbean - ethnic category 2001 census	12432
Black/Black British	Black African	9S300	Black African	12778
Black/Black British	Black African	9S44.00	Black - other African country	35412
Black/Black British	Black African	9SA5.00	Other African countries (NMO)	47969
Black/Black British	Black African	9iC00	African - ethnic category 2001 census	12350
Black/Black British	Black African	9iD0.00	Somali - ethnic category 2001 census	12443
Black/Black British	Black African	9iD1.00	Nigerian - ethnic category 2001 census	32886
Black/Black British	Black Other	9S400	Black, other, non-mixed origin	24339
Black/Black British	Black Other	9S41.00	Black British	12452
Black/Black British	Black Other	9843.00	Black N African/Arab/Iranian	41329
Black/Black British	Black Other	9S43.11	Black North African	46812
Black/Black British	Black Other	9S43.12	Black Arab	57752
Black/Black British	Black Other	9S43.13	Black Iranian	50286
Black/Black British	Black Other	9S48.00	Black Black - other	26312
Black/Black British	Black Other	9S500	Black - other, mixed	25676
Black/Black British		9SG00		
	Black Other		Other black ethnic group	32136
Black/Black British	Black Other	9iD00	Other Black background - ethnic category 2001 census	32389
Black/Black British	Black Other	9iD2.00	Black British - ethnic category 2001 census	40097
Black/Black British	Black Other	9iD3.00	Mixed Black - ethnic category 2001 census	40096
Black/Black British	Black Other	9iD4.00	Other Black or Black unspecified ethnic category 2001 census	46047
Other	Chinese	98900	Chinese	24272
Other	Chinese	9iE00	Chinese - ethnic category 2001 census	12468
Other	Other ethnic group	9SA00	Other ethnic non-mixed (NMO)	30280
Other	Other ethnic group	9SA1.00	Brit. ethnic minor. spec.(NMO)	32110
Other	Other ethnic group	9SA2.00	Brit. ethnic minor. spec.(NMO) Brit. ethnic minor. unsp (NMO)	57764
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Other	Other ethnic group	9SA4.00	N African Arab/Iranian (NMO)	24962
Other	Other ethnic group	9SA4.11	North African Arab (NMO)	47285
Other	Other ethnic group	9SA4.12	Iranian (NMO)	25082
Other	Other ethnic group	9SAD.00	Other ethnic NEC (NMO)	41214
Other	Other ethnic group	9SC00	Vietnamese	25411
Other	Other ethnic group	9SJ00	Other ethnic group	12757
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Other Other ethnic group 9iF9.00	Other	Other ethnic group	9iF7.00	Muslim - ethnic category 2001 census	47091
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Other Other ethnic group 9iFF.00 Moroccan - ethnic category 2001 census 25451 Other Other ethnic group 9iFG.00 Latin American - ethnic category 2001 census 26246 Other Other ethnic group 9iFH.00 South and Central American - ethnic category 2001 census 12756 Other Other ethnic group 9iFJ.00 Mauritian/Seychellois/Maldivian/St Helena eth cat 2001 census 32382 Other Other ethnic group 9iFK.00 Any other group - ethnic category 2001 census 26455 N/A Ethnic group not specified 916E.00 Patient ethnicity unknown 93749 N/A Ethnic group not specified 9SD.00 Ethnic groups (1991 census) 10196 N/A Ethnic group not specified 9SD.00 Ethnic group not given - patient refused 12429 N/A Ethnic group not specified 9SE.00 Ethnic group not recorded 24340 N/A Ethnic group not specified 9SZ.00 Ethnic groups (census) NOS 45199 N/A Ethnic group not specified 9T00 Ethnic groups (census) NOS 45199 N/A Ethnic group not specified 9i00 Ethnic category - 2001 census 12435	Other	Other ethnic group	9iFD.00	Iranian - ethnic category 2001 census	25937
Other Other ethnic group 9iFG.00 South and Central American - ethnic category 2001 census 26246 Other Other ethnic group 9iFH.00 South and Central American - ethnic category 2001 census 12756 Other Other ethnic group 9iFJ.00 Mauritian/Seychellois/Maldivian/St Helena eth cat 2001census 32382 Other Other ethnic group 9iFK.00 Any other group - ethnic category 2001 census 26455 N/A Ethnic group not specified 916E.00 Patient ethnicity unknown 93749 N/A Ethnic group not specified 9SD00 Ethnic groups (1991 census) 10196 N/A Ethnic group not specified 9SD00 Ethnic group not given - patient refused 12429 N/A Ethnic group not specified 9SZ00 Ethnic group not recorded 24340 N/A Ethnic group not specified 9SZ00 Ethnic groups (census) NOS 45199 N/A Ethnic group not specified 9T00 Ethnicity and other related nationality data 23955 N/A Ethnic group not specified 9i00 Ethnic category - 2001 census 12435	Other	Other ethnic group	9iFE.00	Kurdish - ethnic category 2001 census	45964
Other Other ethnic group 9iFH.00 South and Central American - ethnic category 2001 census 12756 Other Other ethnic group 9iFJ.00 Mauritian/Seychellois/Maldivian/St Helena eth cat 2001 census 32382 Other Other ethnic group 9iFK.00 Any other group - ethnic category 2001 census 26455 N/A Ethnic group not specified 916E.00 Patient ethnicity unknown 93749 N/A Ethnic group not specified 9S00 Ethnic groups (1991 census) 10196 N/A Ethnic group not specified 9SE00 Ethnic group not given - patient refused 12429 N/A Ethnic group not specified 9SZ00 Ethnic group not recorded 24340 N/A Ethnic group not specified 9SZ00 Ethnic groups (census) NOS 45199 N/A Ethnic group not specified 9T00 Ethnic groups (census) NOS 45199 N/A Ethnic group not specified 9i00 Ethnic group other related nationality data 23955 N/A Ethnic group not specified 9i00 Ethnic category - 2001 census 12435	Other	Other ethnic group	9iFF.00	Moroccan - ethnic category 2001 census	25451
OtherOther ethnic group9iFJ.00Mauritian/Seychellois/Maldivian/St Helena eth cat 2001 census32382OtherOther ethnic group9iFK.00Any other group - ethnic category 2001 census26455N/AEthnic group not specified916E.00Patient ethnicity unknown93749N/AEthnic group not specified9S00Ethnic groups (1991 census)10196N/AEthnic group not specified9SD00Ethnic group not given - patient refused12429N/AEthnic group not specified9SE00Ethnic group not recorded24340N/AEthnic group not specified9SZ00Ethnic groups (census) NOS45199N/AEthnic group not specified9T00Ethnicity and other related nationality data23955N/AEthnic group not specified9i00Ethnic category - 2001 census12435	Other	Other ethnic group	9iFG.00	Latin American - ethnic category 2001 census	26246
OtherOther ethnic group9iFJ.00Mauritian/Seychellois/Maldivian/St Helena eth cat 2001 census32382OtherOther ethnic group9iFK.00Any other group - ethnic category 2001 census26455N/AEthnic group not specified916E.00Patient ethnicity unknown93749N/AEthnic group not specified9S00Ethnic groups (1991 census)10196N/AEthnic group not specified9SD00Ethnic group not given - patient refused12429N/AEthnic group not specified9SE00Ethnic group not recorded24340N/AEthnic group not specified9SZ00Ethnic groups (census) NOS45199N/AEthnic group not specified9T00Ethnicity and other related nationality data23955N/AEthnic group not specified9i00Ethnic category - 2001 census12435	Other	Other ethnic group	9iFH.00	South and Central American - ethnic category 2001 census	12756
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N/A Ethnic group not specified 9SD00 Ethnic group not given - patient refused 12429 N/A Ethnic group not specified 9SE00 Ethnic group not recorded 24340 N/A Ethnic group not specified 9SZ00 Ethnic groups (census) NOS 45199 N/A Ethnic group not specified 9T00 Ethnicity and other related nationality data 23955 N/A Ethnic group not specified 9i00 Ethnic category - 2001 census 12435	N/A	Ethnic group not specified	916E.00	Patient ethnicity unknown	93749
N/A Ethnic group not specified 9SD00 Ethnic group not given - patient refused 12429 N/A Ethnic group not specified 9SE00 Ethnic group not recorded 24340 N/A Ethnic group not specified 9SZ00 Ethnic groups (census) NOS 45199 N/A Ethnic group not specified 9T00 Ethnicity and other related nationality data 23955 N/A Ethnic group not specified 9i00 Ethnic category - 2001 census 12435	N/A	Ethnic group not specified	9S00	Ethnic groups (1991 census)	10196
N/AEthnic group not specified98Z00Ethnic groups (census) NOS45199N/AEthnic group not specified9T00Ethnicity and other related nationality data23955N/AEthnic group not specified9i00Ethnic category - 2001 census12435	N/A		9SD00	Ethnic group not given - patient refused	12429
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N/A Ethnic group not specified 9T00 Ethnicity and other related nationality data 23955 N/A Ethnic group not specified 9i00 Ethnic category - 2001 census 12435	N/A	Ethnic group not specified	9SZ00		45199
	N/A	Ethnic group not specified	9T00		23955
	N/A		9i00		12435
	N/A	Ethnic group not specified	9i000	British or mixed British - ethnic category 2001 census	12351
N/A Ethnic group not specified 9iG00 Ethnic category not stated - 2001 census 12459	N/A		9iG00		12459

 $\label{eq:codes} Table~S2.~Migration~phenotype, including~Read~(V2)~codes,~Read~terms,~Medcodes,~type~of~code~and~level~of~certainty~of~migration~status.$

Level of certainty of migration status	Type of code	Read code	Read term	Medcode	
Definite	Born outside of the UK	13e00	Country of birth (Asian)	11552	
Definite	Born outside of the UK	13gf.00	Born in South Africa	12458	
Definite	Born outside of the UK	13eG.00	Born in Iraq	12713	
Definite	Born outside of the UK	13eH.00	Born in Israel	25007	
Definite	Born outside of the UK	13go.00	Born in Zimbabwe	25008	
Definite	Born outside of the UK	13eY.00	Born in Philippines	25092	
Definite	Born outside of the UK	13gi.00	Born in Tanzania	25133	
Definite	Born outside of the UK	13dl.00	Born in Yugoslavia	25256	
Definite	Born outside of the UK	13gC.00	Born in Congo	25664	
Definite	Born outside of the UK	13dM.00	Born in Kosovo	25730	
Definite	Born outside of the UK	13eW.00	Born in Pakistan	25995	
Definite	Born outside of the UK	13eo.00	Born in Vietnam	26334	
Definite	Born outside of the UK	13eF.00	Born in Iran	26426	
Definite	Born outside of the UK	13dA.00	Born in Czech Republic	26463	
Definite	Born outside of the UK	13dP.00	Born in Lithuania	28301	
Definite	Born outside of the UK	13eg.00	Born in Syria	28529	
Definite	Born outside of the UK	13gY.00	Born in Niger	30224	
Definite Definite	Born outside of the UK Born outside of the UK	13f5.00	Born in Canada	30606	
Definite	Born outside of the UK	13f00 13d0.00	Country of birth (American) Born in Albania	32053 32055	
Definite	Born outside of the UK	13e8.00	Born in China	32058	
Definite	Born outside of the UK	13e0.00	Born in Afghanistan	32060	
Definite	Born outside of the UK	13h0.00	Born in Australia	32061	
Definite	Born outside of the UK	13jC.00	Born in Trinidad and Tobago	32062	
Definite	Born outside of the UK	13gJ.00	Born in Ghana	32067	
Definite	Born outside of the UK	13gl.00	Born in Uganda	32068	
Definite	Born outside of the UK	13eI.00	Born in Japan	32070	
Definite	Born outside of the UK	13fL.00	Born in USA	32072	
Definite	Born outside of the UK	13h1.00	Born in New Zealand	32074	
Definite	Born outside of the UK	13f3.00	Born in Brazil	32075	
Definite	Born outside of the UK	13j6.00	Born in Jamaica	32076	
Definite	Born outside of the UK	13g0.00	Born in Algeria	32079	
Definite	Born outside of the UK	13dH.00	Born in Greece	32080	
Definite	Born outside of the UK	13dF.00	Born in France	32081	
Definite	Born outside of the UK	13eD.00	Born in India	32082	
Definite	Born outside of the UK	13dG.00	Born in Germany	32085	
Definite	Born outside of the UK	13j2.00	Born in Barbados	32089	
Definite	Born outside of the UK	13fN.00	Born in Venezuela	32090	
Definite Definite	Born outside of the UK	13dW.00 13de.00	Born in Poland	32094 32097	
Definite	Born outside of the UK Born outside of the UK	13df.00	Born in Spain Born in Sweden	32097	
Definite	Born outside of the UK	13gM.00	Born in Ivory Coast	32098	
Definite	Born outside of the UK	13g.vi.00	Country of birth (African)	32102	
Definite	Born outside of the UK	13di.00	Born in Ukraine	32102	
Definite	Born outside of the UK	13gV.00	Born in Morocco	32108	
Definite	Born outside of the UK	13gZ.00	Born in Nigeria	32111	
Definite	Born outside of the UK	13gN.00	Born in Kenya	32112	
Definite	Born outside of the UK	13dK.00	Born in Ireland	32113	
Definite	Born outside of the UK	13ek.00	Born in Turkey	32114	
Definite	Born outside of the UK	13gS.00	Born in Malawi	32115	
Definite	Born outside of the UK	13dL.00	Born in Italy	32116	
Definite	Born outside of the UK	13dc.00	Born in Slovakia	32119	
Definite	Born outside of the UK	13fB.00	Born in Grenada	32120	
Definite	Born outside of the UK	13e3.00	Born in Bangladesh	32125	
Definite	Born outside of the UK	13eb.00	Born in Russia	32127	
Definite	Born outside of the UK	13eM.00 Born in Kyrgyzstan		32128	
Definite	Born outside of the UK	13j9.00	Born in St. Lucia	32131	
Definite	Born outside of the UK	13ej.00	Born in Thailand	32135	
Definite	Born outside of the UK	13dD.00	Born in Estonia	32139	
Definite	Born outside of the UK	13gU.00	Born in Mauritius	32140	
Definite	Born outside of the UK	13ec.00	Born in Saudi Arabia	32144	

Definite	Born outside of the UK	13dh.00	Born in The Netherlands	32150
Definite	Born outside of the UK	13ed.00	Born in Singapore	32157
Definite	Born outside of the UK	13gG.00	Born in Ethiopia	32158
Definite	Born outside of the UK	13dX.00	Born in Portugal	32160
Definite	Born outside of the UK	13gW.00	Born in Mozambique	32162
Definite	Born outside of the UK	13fJ.00	Born in Peru	32166
Definite	Born outside of the UK	13g5.00	Born in Burundi	32167
Definite	Born outside of the UK	13gn.00	Born in Zambia	32168
Definite	Born outside of the UK	13d7.00	Born in Bulgaria	32169
Definite	Born outside of the UK	13eP.00	Born in Malaysia	32171
Definite	Born outside of the UK	13dE.00	Born in Finland	32173
Definite	Born outside of the UK	13dB.00	Born in Denmark	32186
Definite	Born outside of the UK	13ge.00	Born in Somalia	32189
Definite	Born outside of the UK	13d9.00	Born in Cyprus	32190
Definite	Born outside of the UK	13gd.00	Born in Sierra Leone	32197
Definite	Born outside of the UK	13fF.00	Born in Mexico	32201
Definite	Born outside of the UK	13e7.00	Born in Chechnya	32202
Definite	Born outside of the UK	13gI.00	Born in Gambia	32207
Definite	Born outside of the UK	13eT.00	Born in Nepal	32217
Definite	Born outside of the UK	13eC.00	Born in Hong Kong	32220
Definite	Born outside of the UK	13gX.00	Born in Namibia	32233
Definite	Born outside of the UK	13gP.00	Born in Liberia	32237
Definite	Born outside of the UK	13dN.00	Born in Latvia	32242
Definite	Born outside of the UK	13ef.00	Born in Sri Lanka	32242
Definite			Born in Burma	32254
Definite	Born outside of the UK	13e6.00		
	Born outside of the UK	13g7.00	Born in Cameroon	32255
Definite	Born outside of the UK	13g1.00	Born in Angola	32260
Definite	Born outside of the UK	13e2.00	Born in Bahrain	32273
Definite	Born outside of the UK	13k4.00	Born in Seychelles	32293
Definite	Born outside of the UK	13j0.00	Born in Antigua and Barbuda	32301
Definite	Born outside of the UK	13f7.00	Born in Columbia	32303
Definite	Born outside of the UK	13jB.00	Born in Togo	32304
Definite	Born outside of the UK	13gc.00	Born in Senegal	32309
Definite	Born outside of the UK	13f9.00	Born in Ecuador	32311
Definite	Born outside of the UK	13d2.00	Born in Austria	32313
Definite	Born outside of the UK	13f0.00	Born in Argentina	32325
Definite	Born outside of the UK	13ga.00	Born in Rwanda	32331
Definite	Born outside of the UK	13gE.00	Born in Egypt	32333
Definite	Born outside of the UK	13f4.00	Born in British Guyana	32342
Definite	Born outside of the UK	13dZ.00	Born in Romania	32345
Definite	Born outside of the UK	13gL.00	Born in Guinea Republic	32347
Definite	Born outside of the UK	13d4.00	Born in Belgium	32352
Definite	Born outside of the UK	13e1.00	Born in Armenia	32361
Definite	Born outside of the UK	13j4.00	Born in Dominican Republic	32369
Definite	Born outside of the UK	13eh.00	Born in Taiwan	32390
Definite	Born outside of the UK	13d6.00	Born in Bosnia - Herzegovnia	32397
Definite	Born outside of the UK	13k00	Country of birth (Pacific)	32417
Definite	Born outside of the UK	13dI.00	Born in Hungary	32688
Definite	Born outside of the UK	13gk.00	Born in Tunisia	32741
Definite	Born outside of the UK	13dg.00	Born in Switzerland	32807
Definite	Born outside of the UK	13gg.00	Born in Sudan	36794
		13gg.00 13gR.00	Born in Madagascar	37197
Definite	Born outside of the UK	13fD.00	<u> </u>	38075
Definite	Born outside of the UK		Born in Guyana	
Definite	Born outside of the UK	13gA.00	Born in Chad	38117
Definite	Born outside of the UK	13dS.00	Born in Moldavia	39974
Definite	Born outside of the UK	13gm.00	Born in Zaire	41209
Definite	Born outside of the UK	13d8.00	Born in Croatia	41210
Definite	Born outside of the UK	13eO.00	Born in Lebanon	41211
Definite	Born outside of the UK	13dV.00	Born in Norway	41213
Definite	Born outside of the UK	13eL.00	Born in Kuwait	41217
Definite	Born outside of the UK	13ee.00	Born in South Korea	41228
Definite	Born outside of the UK	13f2.00	Born in Bolivia	41230
Definite	Born outside of the UK	13d5.00	Born in Belorussia	41233
Definite	Born outside of the UK	13fE.00	Born in Honduras	41280
Definite	Born outside of the UK	13eE.00	Born in Indonesia	41289
Definite	Born outside of the UK	13j3.00	Born in Cuba	41290
Definite	Born outside of the UK	13f6.00	Born in Chile	41291
Definite	Born outside of the UK	13eK.00	Born in Kazakhstan	41292
Definite	Born outside of the UK	13eX.00	Born in Palestine	41297
Definite	Born outside of the UK	13el.00	Born in Turkmenistan	41302
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Definite	Born outside of the UK	13dd.00	Born in Slovenia	41304
Definite	Born outside of the UK	13eJ.00	Born in Jordan	41311
Definite	Born outside of the UK	13dJ.00	Born in Iceland	41312
Definite	Born outside of the UK	13g3.00	Born in Botswana	41316
		-	Born in Benin	
Definite	Born outside of the UK	13g2.00		41318
Definite	Born outside of the UK	13h00	Country of birth (Australasian)	41327
Definite	Born outside of the UK	13d3.00	Born in Azerbaijan	41337
Definite	Born outside of the UK	13gQ.00	Born in Libya	41341
Definite	Born outside of the UK	13ep.00	Born in Yemen	41344
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Definite	Born outside of the UK	13gh.00	Born in Swaziland	41350
Definite	Born outside of the UK	13eS.00	Born in Mongolia	41351
Definite	Born outside of the UK	13e9.00	Born in Democratic People's Republic of Korea	41354
Definite	Born outside of the UK	13ea.00	Born in Republic of Korea	41356
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Definite	Born outside of the UK	13dY.00	Born in Republic of Ireland	41357
Definite	Born outside of the UK	13dR.00	Born in Malta	41364
Definite	Born outside of the UK	13gK.00	Born in Guinea Bissau	41365
Definite	Born outside of the UK	13fM.00	Born in Uruguay	41367
Definite		13em.00	Ç ,	41372
	Born outside of the UK		Born in United Arab Emirates	
Definite	Born outside of the UK	13fI.00	Born in Paraguay	41399
Definite	Born outside of the UK	13en.00	Born in Uzbekistan	41402
Definite	Born outside of the UK	13k0.00	Born in Fiji	42635
Definite	Born outside of the UK	13eZ.00	Born in Qatar	42639
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Definite	Born outside of the UK	13k6.00	Born in Tonga	47559
Definite	Born outside of the UK	13k5.00	Born in Solomon Islands	48297
Definite	Born outside of the UK	13eB.00	Born in Georgia	49402
Definite	Born outside of the UK	13j00	Country of birth (Atlantic)	49907
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Definite	Born outside of the UK	13eV.00	Born in Oman	51778
Definite	Born outside of the UK	13eA.00	Born in East Timor	57186
Definite	Born outside of the UK	13k7.00	Born in Tuvalu	57189
Definite	Born outside of the UK	13j5.00	Born in Haiti	58192
Definite	Born outside of the UK		Born in Burkina Faso	58527
		13g4.00		
Definite	Born outside of the UK	13j1.00	Born in Bahamas	58533
Definite	Born outside of the UK	13gH.00	Born in Gabon	59657
Definite	Born outside of the UK	13e5.00	Born in Brunei	62298
Definite	Born outside of the UK	13fH.00	Born in Panama	63923
Definite	Born outside of the UK	13gj.00	Born in The Gambia	63927
Definite	Born outside of the UK	13fA.00	Born in El Salvador	63943
Definite	Born outside of the UK	13k3.00	Born in Papua New Guinea	64120
Definite	Born outside of the UK	13gp.00	Born in Eritrea	64949
Definite	Born outside of the UK	13f8.00	Born in Costa Rica	64984
Definite	Born outside of the UK	13eR.00	Born in Mali	65310
Definite	Born outside of the UK	13jA.00	Born in St. Vincent	66551
Definite	Born outside of the UK	13j8.00	Born in St. Kitts and Nevis	66553
Definite	Born outside of the UK	13eU.00	Born in North Korea	66560
Definite				68866
	Born outside of the UK	13gD.00	Born in Djibouti	
Definite	Born outside of the UK	13dQ.00	Born in Luxembourg	69131
Definite	Born outside of the UK	13j7.00	Born in Puerto Rico	69135
Definite	Born outside of the UK	13gT.00	Born in Mauritania	69143
Definite	Born outside of the UK	13fK.00	Born in Suriname	69426
Definite	Born outside of the UK	13eN.00	Born in Laos	69431
Definite	Born outside of the UK	13g8.00	Born in Cape Verde Islands	69560
Definite	Born outside of the UK	13fC.00	Born in Guatemala	69806
Definite	Born outside of the UK	13dT.00	Born in Monaco	71190
				74892
Definite	Born outside of the UK	13fG.00	Born in Nicaragua	
Definite	Born outside of the UK	13eQ.00	Born in Maldives	91328
Definite	Born outside of the UK	13gO.00	Born in Lesotho	93697
Definite	Born outside of the UK	13gF.00	Born in Equatorial Guinea	93923
Definite	Born outside of the UK	13d1.00	Born in Andorra	93935
Definite	Born outside of the UK	13f1.00	Born in Belize	94050
Definite	Born outside of the UK	13dO.00	Born in Liechtenstein	95708
Definite	Born outside of the UK	13t00	Born in British overseas territory	96295
Definite	Born outside of the UK	13g6.00	Born in Cambodia	96636
Definite	Born outside of the UK	13dm.00	Born in former Yugoslav Republic of Macedonia	96824
Definite	Born outside of the UK	13e4.00	Born in Bhutan	97390
Definite	Born outside of the UK	13t1.00	Born in Bermuda	98038
Definite	Born outside of the UK	13da.00	Born in San Marino	98530
Definite	Born outside of the UK	13dj.00	Born in Vatican City	99119
		•		
Definite	Born outside of the UK	13g9.00	Born in Central African Republic	99258
Definite	Born outside of the UK	13jD.00	Born in Dominica	99431
Definite	Born outside of the UK	13ei.00	Born in Tajikistan	100007

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Definite	Born outside of the UK	13dn.00	Born in Serbia	100517
Definite	Born outside of the UK	13gB.00	Born in Comoros Islands	101158
Definite	Born outside of the UK	13gb.00	Born in Sao Tome and Principe	101591
Definite	Born outside of the UK	13Zq.00	Country of birth unknown	101846
Definite	Born outside of the UK	13v0.00	Born in Martinique	103364
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Definite	Born outside of the UK	13k9.00	Born in Western Samoa	103965
Definite	Born outside of the UK	13t2.00	Born in Anguilla	104983
Definite	Born outside of the UK	13t0.00	Born in Montserrat	105923
Definite	Born outside of the UK	13jE.00	Born in Aruba	108271
Definite	Born outside of the UK	13v7.00	Born in Guadeloupe	108936
Definite	Born outside of the UK	13eq.00	Born in Christmas Island	109226
Definite	Born outside of the UK	13dq.00	Born in Republic of Moldova	109260
Definite	Born outside of the UK	13t5.00	Born in Saint Helena, Ascension and Tristan da Cunha	109276
			Born in Montenegro	
Definite	Born outside of the UK	13do.00	8	109457
Definite	Born outside of the UK	13jG.00	Born in Saint Vincent and the Grenadines	109458
Definite	Born outside of the UK	13t3.00	Born in British Virgin Islands	109727
Definite	Born outside of the UK	13kB.00	Born in American Samoa	109791
Definite	Born outside of the UK	13dp.00	Born in Belarus	109898
		•		
Definite	Born outside of the UK	13gq.00	Born in Democratic Republic of Congo	109992
Definite	Born outside of the UK	13v4.00	Born in French Guiana	111051
Definite	Born outside of the UK	13k8.00	Born in Vanuatu	111392
Definite	Born outside of the UK	13jH.00	Born in Sint Maarten	111700
Definite	Born outside of the UK	-	Born in Aland Islands	
		13dx.00		111774
Definite	Born outside of the UK	13t9.00	Born in Cayman Islands	112269
Definite	Visa status indicating migration	13ZC.00	Immigrant	4114
Definite	Visa status indicating migration	ZV70314	[V]Immigration medical	8929
Definite	Visa status indicating migration	133L.00	Immigrant	9292
			e e	
Definite	Visa status indicating migration	13ZN.00	Asylum seeker	9627
Definite	Visa status indicating migration	13D3.00	Social migrant	23398
Definite	Visa status indicating migration	13ZB.00	Refugee	24403
Definite	Visa status indicating migration	ZV70516	[V]Refugee health examination	25632
			: 1 C	
Definite	Visa status indicating migration	13D4.00	Illegal migrant	44407
Definite	Visa status indicating migration	133Q.00	Family reunion immigrant	47073
Definite	Visa status indicating migration	912H.00	Overseas visitor	47513
Definite	Visa status indicating migration	6951	Immigration examination	48029
Definite	Visa status indicating migration	69D8.00	Exam. of refugee	65503
	5 5		-	
Definite	Visa status indicating migration	13Zd.00	Failed asylum seeker	94906
Definite	Visa status indicating migration	13Zw.00	Has United Kingdom student visa	104123
Definite	Visa status indicating migration	918z.00	Has United Kingdom general visitor visa	107572
Probable	First/main language not English	131Z.00	Main spoken language Turkish	22294
Probable	First/main language not English	041E.11	Language interpreter	22515
Probable	First/main language not English	13Z6000	English as a second language	23523
Probable	First/main language not English	13Z6500	Language Punjabi	24295
Probable	First/main language not English	13Z6300	Language Hindi	24296
Probable	First/main language not English	13Z6600	Language Urdu	24691
Probable	First/main language not English	13Z6200	Language Gujurati	24712
Probable	First/main language not English	13Z6100	Language Bengali	24741
Probable		131C.00		24881
	First/main language not English		Main spoken language Polish	
Probable	First/main language not English	13b0.00	Vietnamese language	25410
Probable	First/main language not English	13lS.00	Main spoken language Albanian	25423
Probable	First/main language not English	1312.00	Main spoken language Cantonese	25472
Probable	First/main language not English	131x.00	Main spoken language Thai	25609
Probable	First/main language not English	13lp.00	Main spoken language Malayalam	25616
Probable	First/main language not English	1315.00	Main spoken language French	25665
Probable	2 2 2			
	First/main language not English	1311.00	Main spoken language Bengali	25802
Probable	First/main language not English	131E.00	Main spoken language Punjabi	25829
Probable	First/main language not English	131P.00	Main spoken language Shona	26078
Probable	First/main language not English	13Z6400	Language Pashtu	26196
Probable	First/main language not English	131H.00	Main spoken language Spanish	26247
Probable	First/main language not English	13lb.00	Main spoken language Vietnamese	26335
Probable	First/main language not English	1310.00	Main spoken language Arabic	26337
Probable	First/main language not English	131L.00	Main spoken language Urdu	26361
Probable	First/main language not English	1313.00	Main spoken language Czech	26464
Probable	First/main language not English	131F.00	Main spoken language Russian	32427
Probable	First/main language not English	131G.00	Main spoken language Somali	32456
Probable	First/main language not English	131B.00	Main spoken language Mandarin	32776
Probable	First/main language not English	131W.00	Main spoken language Japanese	36852
Probable	First/main language not English	13lt.00	Main spoken language Serbian	36862
Probable	First/main language not English	131Q.00	Main spoken language Italian	36980
Probable	First/main language not English	131N.00	Main spoken language Kurdish	46014
Probable	First/main language not English	1318.00	Main spoken language Hindi	46029
Probable	First/main language not English	131Y.00	Main spoken language Lithuanian	46325

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Probable	First/main language not English	131K.00	Main spoken language Tamil	46861
Probable	First/main language not English	131V.00	Main spoken language Greek	46974
Probable	First/main language not English	13li.00	Main spoken language French Creole	47007
Probable	First/main language not English	1310.00	Main spoken language Farsi	47029
Probable	First/main language not English	131J.00	Main spoken language Sylheti	47627
Probable	First/main language not English	13ld.00	Main spoken language Amharic	47628
Probable	First/main language not English	131R.00	Main spoken language German	47630
Probable	First/main language not English	13lw.00	Main spoken language Tagalog	47631
Probable	First/main language not English	13II.00	Main spoken language Swahili	47641
Probable	First/main language not English	13lu.00	Main spoken language Sinhala	47643
Probable	First/main language not English	13lm.00	Main spoken language Igbo	47646
Probable	First/main language not English	1316.00	Main spoken language Gujerati	48002
Probable	First/main language not English	13b4.00	Mirpuri language	52200
Probable	First/main language not English	131M.00	Main spoken language Yoruba	54409
Probable	First/main language not English	131T.00	Main spoken language Croatian	54410
Probable	First/main language not English	131c.00	Main spoken language Akan	54413
				54414
Probable	First/main language not English	131f.00	Main spoken language Dutch	
Probable	First/main language not English	131X.00	Main spoken language Korean	54415
Probable	First/main language not English	1319.00	Main spoken language Iba	54416
Probable	First/main language not English	13lv.00	Main spoken language Swedish	54417
Probable	First/main language not English	13lh.00	Main spoken language Flemish	56879
Probable	First/main language not English	13b3.00	Creole language	57462
Probable	First/main language not English	1311.00	Main spoken language Hebrew	57755
Probable	First/main language not English	13lq.00	Main spoken language Norwegian	57758
Probable	First/main language not English	1317.00	Main spoken language Hausa	58193
Probable	First/main language not English	13lr.00	Main spoken language Pashto	58643
Probable	First/main language not English	13sA.00	English as a second language	63932
Probable	First/main language not English	131s.00	Main spoken language Patois	64948
Probable	First/main language not English	13la.00	Main spoken language Ukrainian	66685
Probable	First/main language not English	13lg.00	Main spoken language Ethiopian	69139
Probable	First/main language not English	13lo.00	Main spoken language Luganda	69153
Probable	First/main language not English	131A.00	Main spoken language Kutchi	72379
Probable	First/main language not English	131k.00	Main spoken language Hakka	91422
Probable	5 5 5			93643
	First/main language not English	ZV60012	[V]Social migrant	
Probable	First/main language not English	13u0.00	Main spoken language Bulgarian	95897
Probable	First/main language not English	13ur.00	Main spoken language Latvian	95940
Probable	First/main language not English	131T.11	Main spoken language Serbo-Croatian	95968
Probable	First/main language not English	13lt.11	Main spoken language Serbo-Croatian	95969
Probable	First/main language not English	1310.11	Main spoken language Persian	95970
Probable	First/main language not English	13lu.11	Main spoken language Sinhalese	95974
Probable	First/main language not English	13w1.00	Main spoken language Nepali	95978
Probable	First/main language not English	13ua.00	Main spoken language Hungarian	96041
	2 2 2			
Probable	First/main language not English	131E.11	Main spoken language Panjabi	96147
Probable	First/main language not English	13u5.00	Main spoken language Afrikaans	96148
Probable	First/main language not English	13u1.00	Main spoken language Romanian	96152
Probable	First/main language not English	13wL.00	Main spoken language Telugu	96163
Probable	First/main language not English	13wR.00	Main spoken language Twi	96223
Probable	First/main language not English	13wG.00	Main spoken language Slovenian	96230
Probable	First/main language not English	13wD.00	Main spoken language Sindhi	96240
Probable	First/main language not English	13ux.00	Main spoken language Marathi	96267
Probable	2 2 2		Main spoken language Kannada	96268
	First/main language not English	13uj.00	, , ,	
Probable	First/main language not English	13uN.00	Main spoken language Danish	96289
Probable	First/main language not English	13u6.00	Main spoken language Armenian	96290
Probable	First/main language not English	13w5.00	Main spoken language Quechua	96317
Probable	First/main language not English	13uv.00	Main spoken language Maltese	96370
Probable	First/main language not English	13uu.00	Main spoken language Malay	96376
Probable	First/main language not English	13le.00	Main spoken language Brawa	96485
Probable	First/main language not English	13wM.00	Main spoken language Tibetan	96558
Probable	First/main language not English	13uG.00	Main spoken language Burmese	96559
Probable				
	First/main language not English	13uT.00	Main spoken language Finnish	96560
Probable	First/main language not English	13us.00	Main spoken language Macedonian	96611
Probable	First/main language not English	13wN.00	Main spoken language Tongan	96634
Probable	First/main language not English	13wT.00	Main spoken language Uzbek	96784
Probable	First/main language not English	13u2.00	Main spoken language Oromo	96857
Probable	First/main language not English	13u4.00	Main spoken language Afar	96868
Probable	First/main language not English	13wa.00	Main spoken language Zulu	96873
Probable	First/main language not English	13uQ.00	Main spoken language Estonian	96928
			1 2 2	
Probable	First/main language not English	13uk.00	Main spoken language Kashmiri	97015
Probable	First/main language not English	13uz.00	Main spoken language Mongolian	97038
Probable	First/main language not English	13wW.00	Main spoken language Wolof	97039
Probable	First/main language not English	13wQ.00	Main spoken language Turkmen	97041
Probable	First/main language not English	13u9.00	Main spoken language Azerbaijani	97083
Probable	First/main language not English	13wH.00	Main spoken language Sundanese	97131
Probable	First/main language not English	13uX.00	Main spoken language Georgian	97212
Probable	First/main language not English	13wX.00	Main spoken language Xhosa	97273
11000010	I not main language not English	15 WZ1.00	mani spoken language Allosa	11413

Probable	First/seein language and Frantish	12 00	M-i	07274
Probable	First/main language not English	13uc.00	Main spoken language Indonesian	97274
	First/main language not English	13w3.00	Main spoken language Oriya	97297
Probable	First/main language not English	9NUC.11	Persian language interpreter needed	97298
Probable	First/main language not English	13wB.00	Main spoken language Southern Sotho	97439
Probable	First/main language not English	13w6.00	Main spoken language Romansh	97440
Probable	First/main language not English	13uB.00	Main spoken language Basque	97574
Probable	First/main language not English	13ul.00	Main spoken language Kazakh	97595
Probable	First/main language not English	9NUz.00	Bulgarian language interpreter needed	97644
Probable	First/main language not English	13wP.00	Main spoken language Tsonga	97685
Probable	First/main language not English	13uK.00	Main spoken language Catalan	97997
Probable	First/main language not English	9Nmm.00	Burmese language interpreter needed	98062
Probable	First/main language not English	13uZ.00	Main spoken language Guarani	98070
Probable	First/main language not English	13up.00	Main spoken language Lao	98132
Probable	First/main language not English	13um.00	Main spoken language Kinyarwanda	98194
Probable	First/main language not English	13uy.00	Main spoken language Moldavian	98215
Probable	First/main language not English	13uw.00	Main spoken language Maori	98255
Probable	First/main language not English	13w4.00	Main spoken language Filipino	98285
Probable	First/main language not English	13uY.00	Main spoken language Kalaallisut	98510
Probable	First/main language not English	13ub.00	Main spoken language Icelandic	98604
Probable	First/main language not English	13u8.00	Main spoken language Aymara	98762
Probable	First/main language not English	9NmQ.00	Hungarian language interpreter needed	98809
Probable	First/main language not English	9NUy.00	Romanian language interpreter needed	98841
Probable	First/main language not English	13wS.00	Main spoken language Uighur	99712
Probable	First/main language not English	9Nn1.00	Tsonga language interpreter needed	99794
Probable	First/main language not English	13ui.00	Main spoken language Javanese	100011
Probable	First/main language not English	13uL.00	Main spoken language Slovak	100013
Probable	First/main language not English	9NmA.00	Macedonian language interpreter needed	100438
Probable	First/main language not English	13uR.00	Main spoken language Faeroese	100707
Probable	First/main language not English	13uS.00	Main spoken language Fijian	100714
Probable	First/main language not English	13ug.00	Main spoken language Inuktitut	100716
Probable	First/main language not English	13uW.00	Main spoken language Galician	100743
Probable	First/main language not English	9Nn7.00	Slovenian language interpreter needed	100759
Probable	First/main language not English	13uH.00	Main spoken language Belarusian	100828
Probable	First/main language not English	13uD.00	Main spoken language Bihari	100949
Probable	First/main language not English	13wb.00	Main spoken language Konkani	101038
Probable	First/main language not English	13uJ.00	Main spoken language Central Khmer	101189
Probable	First/main language not English	13wA.00	Main spoken language Dari	101220
Probable	First/main language not English	9Nn4.00	Telugu language interpreter needed	101614
Probable	First/main language not English	13ut.00	Main spoken language Malagasy	101620
Probable	First/main language not English	13ud.00	Main spoken language Interlingua	101659
Probable	First/main language not English	1319.11	Main spoken language Iban	101761
Probable	First/main language not English	13uM.00	Main spoken language Corsican	101788
Probable	First/main language not English	9NUc.11	Punjabi language interpreter needed	101814
Probable	First/main language not English	13uY.11	Main spoken language Greenlandic	102007
Probable	First/main language not English	13uC.00	Main spoken language Dzongkha	102127
Probable	First/main language not English	13uF.00	Main spoken language Breton	102128
Probable	First/main language not English	13ue.00	Main spoken language Interlingue	102129
Probable	First/main language not English	13u3.00	Main spoken language Abkhazian	102184
Probable	First/main language not English	13u7.00	Main spoken language Assamese	102218
Probable	First/main language not English	13uA.00	Main spoken language Bashkir	102259
Probable	First/main language not English	13wC.00	Main spoken language Tswana	102877
Probable	First/main language not English	13uV.00	Main spoken language Frisian	103200
Probable	First/main language not English	13w7.00	Main spoken language Samoan	103219
Probable	First/main language not English	13uq.00	Main spoken language Bamun	104071
Probable	First/main language not English	9NmC.00	Latvian language interpreter needed	104635
Probable	First/main language not English	13wE.00	Main spoken language Ndebele	104886
Probable	First/main language not English	9Nm6.00	Brawa language interpreter needed	104901
Probable	First/main language not English	9Nmd.00		105079
			Catalan language interpreter needed	
Probable	First/main language not English	13wV.00	Main spoken language Tetum	105523
Probable	First/main language not English	13wc.00	Main spoken language Aragonese	105529
Probable	First/main language not English	13wJ.00	Main spoken language Tajik	105960
Probable	First/main language not English	13Z6900	First language not English	108098
Probable	First/main language not English	9Nn6.00	Turkmen language interpreter needed	108184
Probable	First/main language not English	9NmE.00	Kinyarwanda language interpreter needed	109489
Probable	First/main language not English	1316.11	Main spoken language Gujarati	109896
Probable	First/main language not English	13wF.00	Main spoken language Swati	111709
Probable	First/main language not English	13w0.00	Main spoken language Nauru	111734
Probable	First/main language not English	9Nm1.00	Moldavian language interpreter needed	111788
Probable	First/main language not English	13wZ.00	Main spoken language Zhuang	111789
Probable	First/main language not English	13wY.00	Main spoken language Yiddish	111874
Probable	First/main language not English	13w8.00	Main spoken language Sango	111919
Probable	First/main language not English	9NnC.00	Sundanese language interpreter needed	112222
Probable	First/main language not English	13uo.00	Main spoken language Rundi	112260

Probable	First/main language not English	13wK.00	Main spoken language Tatar	112321
Probable	First/main language not English	131D.00	Main spoken language Portuguese	32728
Possible	Non-UK origin	1343	Asian origin	25801
Possible	Non-UK origin	1345	South American origin	32101
Possible	Non-UK origin	2263.11	O/E - Asian origin	32132
Possible	Non-UK origin	1344	North American origin	41150
Possible	Non-UK origin	1342	African origin	45125
Possible	Non-UK origin	134A.00	West Indian origin	45131
Possible	Non-UK origin	1347	Indian origin	45144
Possible	Non-UK origin	1348	Middle Eastern origin	47951
Possible	Non-UK origin	9SA5.00	Other African countries (NMO)	47969
Possible	Non-UK origin	1346	Australian origin	47975
Possible	Non-UK origin	2263	O/E - Mongoloid origin	66536

Table S3. Number and percentage of recorded migrants in CPRD GOLD per year by certainty of migration status (1997-2018).

Year	Migrants Definite migrants		Probable migra	ants	Possible mig	rants	Definite + Probable migrants			
	n/N	%	n/N	%	n/N	%	n/N	%	n/N	%
Total	403,768/16,071,111	2.51	178,749/16,071,111	1.11	216,731/16,071,111	1.35	8,288/16,071,111	0.05	395,480/16,071,111	2.46
1997	4,417/2,210,551	0.20	772/2,210,551	0.0349	3,392/2,210,551	0.153	253/2,210,551	0.0114	4,164/2,210,551	0.00188
1998	6924/2,662,706	0.26	1,949/2,662,706	0.0732	4,604/2,662,706	0.173	371/2,662,706	0.0139	6,553/2,662,706	0.246
1999	9329/3,281,113	0.28	2,955/3,281,113	0.0901	5,934/3,281,113	0.181	440/3,281,113	0.0134	8,889/3,281,113	0.271
2000	12,291/3,787,586	0.33	4,197/3,787,586	0.111	7,555/3,787,586	0.199	539/3,787,586	0.0142	11,752/3,787,586	0.310
2001	17,176/4,362,237	0.39	6,393/4,362,237	0.158	9,461/4,362,237	0.217	822/4,362,237	0.0188	16,354/4,362,237	0.375
2002	23,638/4,812,744	0.49	10,911/4,812,744	0.227	11,742/4,812,744	0.244	985/4,812,744	0.0205	22,653/4,812,744	0.471
2003	31,637/5,194,514	0.609	16,372/5,194,514	0.315	14,132/5,194,514	0.272	1,133/5,194,514	0.0218	30,504/5,194,514	0.587
2004	42,869/5,435,276	0.79	23,824/5,435,276	0.438	17,679/5,435,276	0.325	1,366/5,435,276	0.0251	41,503/5,435,276	0.764
2005	53,229/5,534,090	0.96	29,208/5,534,090	0.528	22,357/5,534,090	0.404	1,664/5,534,090	0.0301	51,565/5,534,090	0.932
2006	63,387/5,653,376	1.12	22,431/5,653,376	0.591	27,654/5,653,376	0.489	2,302/5,653,376	0.0407	61,085/5,653,376	1.08
2007	71,423/5,716,075	1.25	34,474/5,716,075	0.603	34,50/5,716,075	0.604	2,440/5,716,075	0.0427	68,983/5,716,075	1.21
2008	83,092/5,682,548	1.46	38,150/5,682,548	0.671	42,415/5,682,548	0.746	2,527/5,682,548	0.0445	80,565/5,682,548	1.42
2009	102,292/5,700,405	1.79	41,733/5,700,405	0.732	58,246/5,700,405	1.02	2,313/5,700,405	0.0406	99,979/5,700,405	1.75
2010	121,683/5,694,007	2.14	45,192/5,694,007	0.794	74,034/5,694,007	1.30	2,457/5,694,007	0.0432	119,226/5,694,007	2.09
2011	137,231/5,583,145	2.46	46,943/5,583,145	0.841	87,862/5,583,145	1.57	2,426/5,583,145	0.0435	134,805/5,583,145	2.41
2012	155,439/5,490,938	2.83	50,303/5,490,938	0.916	102,603/5,490,938	1.87	2,533/5,490,938	0.0461	152,906/5,490,938	2.78
2013	165,392/5,427,745	3.05	56,225/5,427,745	1.04	106,300/5,427,745	1.96	2,867/5,427,745	0.0528	162,525/5,427,745	2.99
2014	151,699/5,094,287	2.98	58,425/5,094,287	1.15	90,520/5,094,287	1.78	2,754/5,094,287	0.0541	148,945/5,094,287	2.92
2015	139,348/4,484,174	3.11	55,934/4,484,174	1.25	81,960/4,484,174	1.83	1,454/4,484,174	0.0324	137,894/4,484,174	3.08
2016	106,614/3,600,079	2.96	39,106/3,600,079	1.09	66,553/3,600,079	1.85	955/3,600,079	0.0265	105,659/3,600,079	2.93
2017	94,293/3,075,162	3.07	29,888/3,075,162	0.972	63,474/3,075,162	2.06	931/3,075,162	0.0303	93,362/3,075,162	3.04
2018	100,626/2,761,397	3.64	38,096/2,761,397	1.38	61,688/2,761,397	2.23	842/2,761,397	0.0305	99,784/2,761,397	3.61

Table S4. Demographic characteristics of recorded migrants in CPRD GOLD at the time of the 2011 census by certainty of migration status (England and Wales).

Demographic	characteristic	Migrants (%)	Definite migrants	Probable migrants	Possible migrants	Definite + Probable migrants (%)
Total		107,526 (100%)	36,471 (33.9%)*	68,983 (64·2%)	2,072 (1.92%)	105,454 (98·1%)
Sex	Male	51,252 (47·7%)	17,894 (49·1%)	32,325 (46.9%)	1,033 (49.9%)	50,219 (47.6%)
	Female	56,274 (52·3%)	18,577 (50.9%)	36,658 (53·1%)	1,039 (50·1%)	55,235 (52·4%)
Year of birth	1900-1919	119 (0·11%)	36 (0·10%)	77 (0·112%)	6 (0.290%)	113 (0·107%)
	1920-1939	4,560 (4.24%)	1,230 (3.37%)	3,235 (4.69%)	95 (4.58%)	4,465 (4.23%)
	1940-1959	13,267 (12.3%)	4,332 (11.9%)	8,616 (12.5%)	319 (15.4%)	12,948 (12.3%)
	1960-1979	39,600 (36.8%)	15,977 (43.8%)	22,722 (32.9%)	901 (43.5%)	38,699 (36.7%)
	1980-1999	35,886 (33.4%)	12,414 (34.0%)	22,875 (33.2%)	597 (28.8%)	35,289 (33.5%)
	2000-2018	14,094 (13·1%)	2,482 (6.81%)	11,458 (16.6%)	154 (7.43%)	13,940 (13·2%)
Ethnicity	White British	1,667 (1.55%)	840 (2·30%)	796 (1·15%)	31 (1·50%)	1,636 (1.55%)
•	White Non-British	34,821 (32.4%)	11,568 (31.7%)	23,168 (33.6%)	85 (4.10%)	34,736 (32.9%)
	Mixed	2,494 (2.32%)	1,057 (2.90%)	1,367 (1.98%)	70 (3.38%)	2,424 (2·30%)
	Asian/Asian British	39,845 (37·1%)	8,419 (23.1%)	30,606 (44.4%)	820 (39.6%)	39,025 (37.0%)
	Black/African/Caribbean/Black British	10,859 (10.1%)	5,782 (15.9%)	4,563 (6.64%)	514 (24.8%)	10,345 (9.81%)
	Other	8,632 (8.03%)	3,130 (8.58%)	5,371 (7.82%)	131 (6.32%)	8,501 (8.06%)
	Unknown	9,208 (8.56%)	5,675 (15.6%)	3,112 (4.51%)	421 (20·3%)	8,787 (8.33%)
Geographical	African Region	5,617 (5·22%)	5,617 (15·4%)			
	European Region	10,126 (9.42%)	10,126 (27.8%)			••
	Eastern Mediterranean Region	2,970 (2.76%)	2,970 (8.14%)			••
` '	Region of the Americas	2,229 (2.07%)	2,229 (6.11%)			••
	South East Asian Region	4,088 (3.80%)	4,088 (11.2%)			
	Western Pacific Region	3,622 (3.37%)	3,622 (9.93%)			
	Unknown	78,742 (73·2%)	7,819 (21·4%)	••	••	••
Geographical	Africa	5,617 (5·22%)	5,617 (15·4%)			
region of birth		10,048 (9.34%)	10,048 (27.6%)			
(continent)	Middle East & Asia	10,022 (9.32%)	10,022 (27.5%)			••
` '	The Americas & Caribbean	2,229 (2.07%)	2,229 (6.11%)			••
	Antarctica & Oceania	845 (0.79%)	845 (2.3%)			••
	Unknown	78,737 (73.2%)	7,710 (21·1%)	••		••

Practice region London	46,043 (42.8%)	21,324 (58·5%)	25,301 (34·1%)	1,218 (58.8%)	44,825 (42.5%)
South Central	10,641(9.90%)	3,866 (10.6%)	6,566 (9.56%)	209 (10·1%)	10,432 (9.89%)
South East Coast	6,615 (6.15%)	1,483 (4.06%)	5,042 (7.31%)	90 (4.34%)	6,525 (6.19%)
North West	11,538 (10.7%)	3,197 (8.77%)	8,258 (12.0%)	83 (4.01%)	11,455 (10.9%)
West Midlands	10,647 (9.93%)	1,190 (3.26%)	9,347 (13.5%)	110 (5·31%)	10,537 (10.0%)
East of England	8,584 (7.98%)	1,445 (3.96%)	7,069 (10.2%)	70 (3·38%)	8,514 (8.07%)
South West	6,039 (5.62%)	2,299 (6.30%)	3,709 (5·40%)	31 (1.50%)	6,008 (5.70%)
North East	2,370 (2·20%)	154 (0.422%)	2,209 (3·20%)	7 (0.338%)	2,363 (2.24%)
East Midlands	1,770 (1.65%)	150 (0.422%)	1,541 (2.24%)	79 (3.81%)	1,691 (1.60%)
Yorkshire & The Humber	760 (0.707%)	101 (0.277%)	574 (0.83%)	85 (4·10%)	675 (0.64%)
Wales	2,519 (2.34%)	1,262 (3.46%)	1,167 (1.70%)	90 (4.34%)	2,429 (2·30%)

^{*}Percentages are calculated across columns except for the first row which are percentages.

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Table S5. Migrants as a percentage of all patients registered in a CPRD GOLD practice region (2009-2018).

Practice region	No. recorded migrants	No. registered patients	Percentage migrants in region
North East	4,980	205,916	2.42
North West	31,964	1,534,366	2.08
Yorkshire & The Humber	1,740	483,845	0.36
East Midlands	4,594	492,978	0.93
West Midlands	29,629	1,280,599	2.31
East of England	24,006	1,319,786	1.82
South West	19,734	1,322,423	1.49
South Central	48,740	1,674,896	2.91
London	171,368	2,302,173	7.44
South East Coast	43,089	1,625,941	2.65
Northern Ireland	921	434,498	0.21
Scotland	12,135	1,762,543	0.69
Wales	10,868	1,631,147	0.67

Table S6. Percentage of individuals recorded as migrants in CPRD GOLD and ONS country of birth (2004-2018).

Year	Percentage of CPRD GOLD patients recorded as international migrants (95% CI)	Percentage of individuals living in the UK recorded by ONS as international migrants	Ratio of total percentages (% CPRD / % ONS)
2004	0.79 (0.781 - 0.796)	8.89	0.09
2005	0.96 (0.954 - 0.970)	9.36	0.10
2006	1.12 (1.113 - 1.130)	10.05	0.11
2007	1.25 (1.240 - 1.259)	10.59	0.12
2008	1.46 (1.452 - 1.472)	11.09	0.13
2009	1.79 (1.784 - 1.805)	11.42	0.16
2010	2.14(2.125 - 2.149)	11.68	0.18
2011	2.46 (2.445 - 2.471)	12.26	0.20
2012	2.83(2.817 - 2.845)	12.44	0.23
2013	3.05 (3.033 - 3.062)	12.52	0.24
2014	2.98 (2.963 - 2.993)	13.00	0.23
2015	3·11 (3·092 - 3·124)	13.33	0.23
2016	2.96 (2.944 - 2.979)	14.14	0.21
2017	3.07 (3.047 - 3.086)	14.39	0.21
2018	3.64 (3.622 - 3.666)	14.24	0.26

Table S7. Percentage of CPRD patients recorded as migrants and ONS 2011 census percentage of migrants in the population by age band (2011).

Age band in years	CPRD GOLD migrants / all individuals (%)	ONS 2011 census migrants / all individuals (%)	Ratio of total percentages (% CPRD / % ONS)
0-15	17,838 / 745,500 (2·4%)	594,415 / 10,579,132 (5.6%)	0.43
16-24	11,129 / 446,584 (2.5%)	896,719 / 6,658,636 (13.5%)	0.18
25-34	30,178 / 552,426 (5.5%)	1,892,699 / 7,520,524 (25.2%)	0.22
35-49	28,135 / 941,841 (3.0%)	2,004,537 / 11,931,776 (16.8%)	0.18
50-64	12,586 / 810,017 (1.6%)	1,239,056 /10,162,771 (12·2%)	0.13
65-74	4,194 / 397,473 (1.1%)	479,211 / 4,852,833 (9.9%)	0.11
75-84	2,684 / 256,482 (1·1%)	300,122 / 3,115,552 (9.6%)	0.11
85 plus	782 /118,357 (0·7%)	98,251 / 1,254,688 (7.8%)	0.09

Table S8. Age breakdown of migrants in CPRD GOLD and in ONS at the time of the 2011 census.

Age band in	CPRD GOLD		ONS 2011 census	
years	No. migrants	% of migrants	No. migrants	% of migrants
All age bands	107,526	100	7,505,010	100
0-15	17,838	16.6	594,415	7.92
16-24	11,129	10.4	896,719	12.0
25-34	30,178	28.07	1,892,699	25.2
35-49	28,135	26.2	2,004,537	26.7
50-64	12,586	11.7	1,239,056	16.5
65-74	4,194	3.90	479,211	6.39
75-84	2,684	2.50	300,122	4.00
85 plus	782	0.73	98,251	1.31

Table~S9.~Breakdown~of~migrants~recorded~in~CPRD~GOLD~at~the~time~of~the~ONS~2011~census~by~the~18~group~classification~of~ethnicity~(2011).

Ethnic group	Number of migrants	% of migrants
All migrants	107,526	100
White British	1,667	1.55
White Irish	551	0.51
White Other	28,605	26.6
White NOS	5,665	5.27
Mixed White and Black	765	0.71
Mixed White and Asian	474	0.44
Mixed Asian and Black	141	0.13
Mixed Other	1,056	0.98
Mixed NOS	58	0.05
Indian	13,283	12.4
Pakistani	10,084	9.38
Bangladeshi	3,935	3.66
Other Asian	10,028	9.33
Black Caribbean	1,158	1.08
Black African	8,582	7.98
Black Other	1,119	1.04
Chinese	2,515	2.34
Other ethnic group	8,632	8.03
Unknown	9,208	8.56