

S2 Table. Significant 470 SNP-Disease pairs in the discovery set where genotypic and phenotypic data was available in the replication set.

ICD9 Code	Phenotype	GWAS_Diseases(V/N/AMBI/GOUS)	SNP	Position (bp, hg19)	Variation	Discovery set							Validation set				Functional Annotation					
						Cases (MAF)	Controls (MAF)	Fishers' exact p-value	FDR	Logistic p-value	OR[95%CI]	Cases (MAF)	Controls (MAF)	Fishers' exact p-value	OR[95%CI]	Meta Analysis p-value	Gene	basepairs (nearest Gene)	Gene Location	Exonic Function	AAChange.refGene	
DX_115.92	Unspecified Histoplasmosis Retinitis	N	rs3093983	31496925	G/A	12(0.54)	7406(0.18)	5E-05	0.57	5.79E-05	5.3[2.4-11.8]	8(0.56)	3879(0.19)	0.00048	5.7[2.1-15.2]	1.2E-07	MCCD1		exonic ncRNA_intronic	nonsynonymous SNV	MCDD1:NM_001011700:exon1.c.G134A:p.S45N	
DX_115.92	Unspecified Histoplasmosis Retinitis	N	rs3093978	31498497	C/A	12(0.54)	7406(0.18)	5E-05	0.57	5.79E-05	5.3[2.4-11.8]	8(0.56)	3879(0.19)	0.00049	5.6[2.1-15.2]	1.22E-07	ATP6V1G2-DDX398					
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs9276370	32707295	G/T	70(0.61)	7348(0.44)	4.2E-05	0.53	5.53E-05	2[1.4-2.9]	31(0.66)	3856(0.44)	0.00059	2.5[1.5-4.2]	1.23E-07	HLA-DQA2	1868	intergenic			
DX_720.8	Other Inflammatory Spondylopathies	Y	rs1328982	31417191	A/G	26(0.6)	7392(0.29)	3E-06	0.18	4.91E-06	3.6[2.1-6.3]	9(0.67)	3878(0.29)	0.00061	4.9[1.8-13.1]	1.03E-08	HCF5	13766	intergenic			
DX_720.89	Other Inflammatory Spondylopathies	Y	rs1328982	31417191	A/G	26(0.6)	7392(0.29)	3E-06	0.18	4.91E-06	3.6[2.1-6.3]	9(0.67)	3878(0.29)	0.00061	4.9[1.8-13.1]	1.03E-08	HCF5	13766	intergenic			
DX_340	Multiple Sclerosis	Y	rs5457617	32663851	C/T	58(0.88)	73600(4.9)	4.3E-05	0.53	8.83E-05	2.2[1.5-3.3]	31(0.77)	3856(0.49)	0.00064	2.5[1.3-4.7]	1.36E-07	HLA-DQB1	29385	intergenic			
DX_714.0	Rheumatoid Arthritis	Y	rs9275595	32681355	T/C	164(0.32)	7165(0.21)	1.1E-05	0.33	6.42E-06	1.7[1.4-2.2]	150(0.29)	3644(0.21)	0.00074	1.6[1.2-2.1]	4.28E-08	HLA-DQA2	27808	intergenic			
DX_250.61	Type I (Juvenile Type) Diabetes Mellitus With Neurological Manifestations, Not Stated As Uncontrolled	Y	rs2187668	32605884	C/T	37(0.31)	7381(0.12)	7.4E-06	0.28	2.56E-06	3[2-5.4]	16(0.31)	3871(0.12)	0.0016	3.5[1.6-7.3]	6.18E-08	HLA-DQA1		intronic			
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs1480380	32913246	C/T	70(0.2)	7348(0.08)	1.4E-05	0.38	2.55E-06	2.7[1.8-4.2]	31(0.19)	3856(0.08)	0.002	2.8[1.5-5.3]	1.41E-07	HLA-DMA	3145	intergenic			
DX_696.1	Other Psoriasis	N	rs1265159	31140047	G/A	253(0.32)	7034(0.22)	1.5E-07	0.003	6.09E-08	1.7[1.4-2.1]	148(0.3)	3656(0.22)	0.0026	1.5[1.2-1.9]	2.3E-09	PSORS1C3	1465	intergenic			
DX_697.0	Lichen Planus	Y	rs12529049	32357715	C/T	97(0.26)	7321(0.15)	4.6E-05	0.55	1.42E-05	2[1.5-2.8]	81(0.22)	3806(0.14)	0.0031	1.8[1.2-2.6]	6.53E-07	HCC23		upstream			
DX_696	Psoriasis And Similar Disorders	Y	rs9264942	31274380	T/C	32(0.46)	6744(0.35)	5.8E-09	0.0026	3.13E-09	1.6[1.4-1.9]	18(0.44)	3564(0.36)	0.0026	1.4[1.1-1.7]	1.26E-10	HLA-C	34467	intergenic			
DX_720.0	Ankylosing Spondylitis	Y	rs9264942	31274380	T/C	35(0.63)	7383(0.35)	2.8E-06	0.17	4.67E-06	3[1[1.9-5]]	12(0.67)	3875(0.37)	0.0035	3.5[1.5-8.1]	5.1E-08	HLA-C	34467	intergenic			
DX_720.8	Other Inflammatory Spondylopathies	Y	rs12175489	31377587	G/A	26(0.44)	7392(0.13)	3.2E-08	0.011	4.14E-09	5.4[3.1-9.4]	9(0.39)	3878(0.13)	0.0037	4.1[1.6-10.7]	7.49E-10	MICA		intronic			
DX_720.89	Other Inflammatory Spondylopathies	Y	rs12175489	31377587	G/A	26(0.44)	7392(0.13)	3.2E-08	0.011	4.14E-09	5.4[3.1-9.4]	9(0.39)	3878(0.13)	0.0037	4.1[1.6-10.7]	7.49E-10	MICA		intronic			
DX_697.0	Lichen Planus	N	rs13192471	32671103	T/C	97(0.29)	7321(0.14)	8.4E-08	0.023	1.43E-08	2.5[1.8-3.4]	81(0.23)	3806(0.14)	0.0038	1.8[1.2-2.6]	1.93E-09	HLA-DQB1	36637	intergenic			
DX_697.0	Lichen Planus	N	rs2857106	32787570	T/C	97(0.33)	7321(0.2)	1.4E-05	0.38	6.18E-06	2[1.5-2.7]	81(0.28)	3806(0.19)	0.0051	1.7[1.2-2.4]	3.42E-07	TAP2	2040	intergenic			
DX_250.41	Type I (Juvenile Type) Diabetes Mellitus With Renal Manifestations, Not Stated As Uncontrolled	Y	rs9275312	32665728	A/G	29(0.4)	7389(0.13)	2.4E-07	0.039	6.82E-08	4.4[2.6-7.5]	14(0.32)	3873(0.13)	0.0058	3[1.4-6.8]	7.88E-09	HLA-DQB1	31262	intergenic			
DX_696.1	Other Psoriasis	Y	rs720465	31125777	C/A	253(0.39)	7034(0.29)	6.9E-06	0.27	4.58E-06	1.5[1.3-1.8]	148(0.38)	3650(0.3)	0.0074	1.4[1.1-1.8]	2.46E-07	CHCR1		intronic			
DX_720.0	Ankylosing Spondylitis	Y	rs2248462	31446796	G/A	35(0.49)	7383(0.22)	3.9E-07	0.005	1.85E-07	3.4[2.1-5.5]	12(0.46)	3875(0.22)	0.0075	3[1.4-6.8]	1.62E-08	HCC26	6611	intergenic			
DX_923.21	Cutaneous Of Wrist	N	rs9264942	31274380	T/C	26(0.44)	7154(0.35)	1.9E-05	0.44	1.35E-05	1.5[1.2-1.8]	98(0.46)	3789(0.36)	0.0076	1.5[1.1-2.1]	6.63E-07	HLA-C	34467	intergenic			
DX_228.04	Hemangioma Of Intra-Abdominal Structures	N	rs3131003	31093482	G/A	31(0.68)	7387(0.42)	3.7E-05	0.52	0.000092	2.9[1.7-5]	25(0.62)	3862(0.43)	0.0078	2.2[1.2-3.9]	1.24E-06	PSORS1C1		UTRS			
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs9461799	32689529	T/C	70(0.26)	7348(0.43)	1.9E-05	0.43	5.2E-05	0.5[0.3-0.7]	31(0.26)	3856(0.43)	0.008	0.5[0.3-0.8]	6.69E-07	HLA-DQA2	19634	intergenic			
DX_720.8	Other Inflammatory Spondylopathies	Y	rs1131904	31383071	A/G	26(0.54)	7392(0.27)	2.8E-05	0.48	3.24E-05	3.2[1.9-5.7]	9(0.56)	3878(0.26)	0.0092	3.5[1.4-8.8]	1.13E-06	MICA		UTRS			
DX_720.89	Other Inflammatory Spondylopathies	Y	rs1131904	31383071	A/G	26(0.54)	7392(0.27)	2.8E-05	0.48	3.24E-05	3.2[1.9-5.7]	9(0.56)	3878(0.26)	0.0092	3.5[1.4-8.8]	1.13E-06	MICA		UTRS			
DX_482.4	Pneumonia Due To Staphylococcus	N	rs756440	31322331	A/G	15(0.57)	7403(0.23)	4.3E-05	0.54	9.66E-05	4.4[2.1-9]	12(0.46)	3875(0.24)	0.011	2.7[1.2-6]	2.1E-06	COL11A2			8138	intergenic	
DX_228.04	Hemangioma Of Intra-Abdominal Structures	N	rs2523619	31318144	T/C	31(0.45)	7387(0.2)	5.1E-06	0.23	2.35E-06	3[2-5.5]	25(0.36)	3862(0.21)	0.011	2[1.1-3.8]	2.66E-07	HLA-B	3505	intergenic			
DX_596.9	Other Inflammatory Disorder Of Bladder	N	rs6901084	32736936	C/T	54(0.64)	7364(0.44)	4.7E-05	0.56	7.21E-05	2.2[1.5-3.3]	60(0.32)	3827(0.44)	0.011	0.6[0.4-0.9]	0.000273	HLA-DQB2	5606	intergenic			
DX_482.4	Pneumonia Due To Staphylococcus	N	rs3129234	33111347	C/T	15(0.57)	7403(0.23)	4.3E-05	0.54	9.77E-05	4.4[2.1-9]	12(0.46)	3875(0.24)	0.012	2.7[1.2-6]	2.11E-06	HLA-DPB2	14457	intergenic			
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs2187668	32605884	C/T	70(0.26)	7348(0.12)	2.1E-06	0.15	6.3E-07	2.6[1.8-3.9]	31(0.23)	3856(0.12)	0.012	2.2[1.2-4.1]	1.22E-07	HLA-DQA1		intronic			
DX_813.07	Other And Unspecified Closed Fractures Of Proximal End Of Radius (Alone)	N	rs3948793	32759448	G/A	44(0.58)	7374(0.35)	1.1E-05	0.34	1.15E-05	2.6[1.7-3.9]	34(0.21)	3853(0.35)	0.012	0.5[0.3-0.9]	7.44E-05	HLA-DOB	21092	intergenic			
DX_813.07	Other And Unspecified Closed Fractures Of Proximal End Of Radius (Alone)	N	rs9276711	32757297	C/T	44(0.58)	7374(0.35)	1.1E-05	0.34	1.18E-05	2.6[1.7-3.9]	34(0.21)	3853(0.35)	0.012	0.5[0.3-0.9]	7.46E-05	HLA-DOB	23243	intergenic			
DX_697.0	Lichen Planus	N	rs4248166	32366421	T/C	97(0.3)	7321(0.18)	1.4E-05	0.38	4.82E-06	2[1.5-2.8]	81(0.25)	3806(0.17)	0.013	1.6[1.1-2.3]	8.3E-07	BTML2		intronic			
DX_696.1	Other Psoriasis	Y	rs9264942	31274380	T/C	253(0.48)	7034(0.35)	5.5E-09	0.0026	4.29E-09	1.7[1.4-2]	148(0.43)	3656(0.36)	0.015	1.3[1.1-1.7]	5.29E-10	HLA-C	34467	intergenic			
DX_692.4	Contact Dermatitis And Other Eczema Due To Other Chemical Products	AMBIGUOUS	rs9275698	32687973	A/G	148(0.22)	7270(0.34)	2.5E-05	0.46	NA	0.6[0.4-0.7]	69(0.23)	3818(0.33)	0.015	0.6[0.4-0.9]	1.61E-06	HLA-DQA2	21190	intergenic			
DX_696	Psoriasis And Similar Disorders	Y	rs1265159	31140047	G/A	327(0.3)	6744(0.22)	3.9E-07	0.05	1.81E-07	1.6[1.3-1.9]	180(0.28)	3564(0.22)	0.016	1.3[1.1-1.7]	3.27E-08	PSORS1C3	1465	intergenic			
DX_250.60	Type II Or Unspecified Type Diabetes Mellitus With Neurological Manifestations, Not Stated As Uncontrolled	Y	rs2395163	32387809	T/C	238(0.28)	7180(0.2)	4.3E-05	0.53	3.23E-05	1.5[1.3-1.9]	219(0.26)	3668(0.21)	0.017	1.3[1.1-1.6]	3.02E-06	BTML2	12909	intergenic			
DX_696.1	Other Psoriasis	Y	rs10484554	31274555	C/T	253(0.28)	7034(0.14)	2.1E-15	5.7E-09	5.89E-17	2.4[1.9-2.9]	148(0.2)	3566(0.15)	0.019	1.4[1.1-1.9]	3.92E-16	HLA-C	34642	intergenic			
DX_823.82	Closed Fracture Of Unspecified Part Of Fibula With Tibia Fracture	AMBIGUOUS	rs4084262	31218889	C/T	50(0.33)	7368(0.16)	4.6E-05	0.55	1.41E-05	2.5[1.7-3.9]	28(0.27)	3859(0.15)	0.02	2[1.1-3.6]	3.69E-06	HLA-C	17637	intergenic			
DX_482.4	Pneumonia Due To Staphylococcus	N	rs3129214	33117258	C/T	15(0.57)	7403(0.23)	4.4E-05	0.54	9.81E-05	4.4[2.1-9]	12(0.46)	3875(0.24)	0.022	2.7[1.2-6]	3.94E-06	COL11A2	13211	intergenic			
DX_696	Psoriasis And Similar Disorders	Y	rs10484554	31274555	C/T	327(0.25)	6744(0.14)	9.2E-13	0.000005	5.37E-14	2[1.7-2.4]	180(0.2)	3564(0.15)	0.022	1.4[1.1-1.8]	1.73E-13	HLA-C	34642	intergenic			
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs7775397	32261252	T/G	70(0.23)	7348(0.11)	1.9E-05	0.43	6.23E-06	2.5[1.7-3.7]	31(0.19)	3856(0.1)	0.025	2[1.1-1.4]	2E-06	C6orf10		exonic	nonsynonymous SNV	C6orf10:NM_006781:exon23:c.A1198C:p.K400Q,C6orf10:NM_001286475:exon24:c.A1150C:p.K384Q,C6orf10:NM_001286475:exon24:c.A1150C:p.K384Q	
DX_842.02	Sprain Of Radiocarpal (Joint) (Ligament) Of Wrist	N	rs9263871	31170528	A/G	15(0.03)	7403(0.37)	2E-05	0.44	0.004952	0.1[0-0.4]	10(0.6)	3877(0.35)	0.025	2.8[1.1-6.8]	0.000123	HCC27					
DX_696.1	Other Psoriasis	Y	rs3130467	31187075	C/T	253(0.36)	7034(0.27)	7.7E-06	0.29	5.48E-06	1.5[1.3-1.9]	148(0.33)	3656(0.27)	0.026	1.3[1.1-1.7]	8.98E-07	HCC27	15330	intergenic			
DX_720.9	Unspecified Inflammatory Spondylopathy	Y	rs4711268	31354504	C/T	30(0.5)	7388(0.25)	2.9E-05	0.48													

DX_795.79	Other Adiposities	N	rs3094165	29833541	A/G	215(0.23)	7012(0.32)	2.6E-05	0.47	3.94E-05	0.6[0.5-0.8]	127(0.26)	3668(0.32)	0.044	0.7[0.6-1]	4.55E-06	HLA-H	21996	intergenic				
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs3131379	31721033	G/A	70(0.23)	7348(0.11)	4.2E-05	0.53	1.26E-05	2.4[1.6-3.6]	31(0.18)	3856(0.1)	0.045	1.9[1-3.7]	7.32E-06	MHS5-SAPCD1		ncRNA_intronic				
DX_720.8	Other Inflammatory Spondylopathies	Y	rs2844505	31439063	C/T	26(0.56)	7392(0.27)	9.5E-06	0.31	1.35E-05	3.4[2.5-5.9]	9(0.5)	3878(0.28)	0.048	2.6[1.6-4.4]	1.92E-06	HCG26		ncRNA_exonic				
DX_720.89	Other Inflammatory Spondylopathies	Y	rs2844505	31439063	C/T	26(0.56)	7392(0.27)	9.5E-06	0.31	1.35E-05	3.4[2.5-5.9]	9(0.5)	3878(0.28)	0.048	2.6[1.6-4.4]	1.92E-06	HCG26		ncRNA_exonic				
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs9275312	32665728	A/G	70(0.27)	7348(0.13)	9.4E-06	0.31	2.67E-06	2.5[1.7-3.6]	31(0.23)	3856(0.13)	0.05	1.9[1-3.4]	1.97E-06	HLA-DQB1			31262	intergenic		
DX_327.24	Idiopathic Sleep Related Nonobstructive Alveolar Hypoventilation	N	rs3117294	29653329	T/G	5(1)	7413(0.34)	1E-05	0.32	0.6071	NA[NA-NA]	3(0.67)	3884(0.33)	0.056	4.1[0.8-22.4]	0.127453	ZPFS7			8398	intergenic		
DX_250.81	Type I (Juvenile Type) Diabetes Mellitus With Other Specified Manifestations, Not Stated As Uncontrolled	Y	rs9275312	32665728	A/G	39(0.33)	7379(0.13)	2.3E-06	0.16	9.04E-07	3.3[2.1-5.4]	9(0.28)	3878(0.13)	0.056	2.5[0.9-6.9]	5.73E-07	HLA-DQB1			31262	intergenic		
DX_696	Psoriasis And Similar Disorders	Y	rs2523619	31318144	T/C	327(0.31)	6744(0.2)	7.3E-11	0.000077	1.29E-11	1.8[1.5-2.1]	180(0.25)	3564(0.21)	0.059	1.3[1-1.6]	3.08E-11	HLA-B			3505	intergenic		
DX_250.8	Diabetes With Other Specified Manifestations	Y	rs9275312	32665728	A/G	162(0.22)	7171(0.13)	5E-06	0.23	2.77E-06	1.9[1.5-2.5]	132(0.17)	3681(0.13)	0.06	1.4[1-1.9]	1.32E-06	HLA-DQB1			31262	intergenic		
DX_696.1	Other Psoriasis	Y	rs522929	31930441	G/T	253(0.33)	70340(43)	9.3E-06	0.31	1.21E-05	0.7[0.5-0.8]	148(0.38)	3656(0.44)	0.06	0.8[0.6-1]	2.34E-06	SKI2L				intronic		
DX_795.7	Other Nonspecific Immunological Findings	N	rs3094165	29833541	A/G	229(0.23)	6985(0.32)	3.6E-05	0.52	4.2E-05	0.6[0.5-0.8]	137(0.27)	3635(0.32)	0.061	0.8[0.6-1]	8.33E-06	HLA-H			21996	intergenic		
DX_219.0	Benign Neoplasm Of Cervix Uteri	N	rs2071482	32816700	C/A	34(0)	7384(0.14)	2.6E-05	0.47	0.7838	[0-NA]	130(27)	3874(0.14)	0.063	2.2[0.9-5.3]	0.000153	TAP1				intronic		
DX_047	Meningitis Due To Enterovirus	N	rs3132680	30073195	A/C	54(0.54)	7364(0.32)	3.1E-06	0.18	5.17E-06	2.5[1.7-3.6]	15(0.17)	3872(0.33)	0.066	0.4[0.2-1.1]	2.18E-05	TRIM31-AS1				ncRNA_intronic		
DX_047.9	Unspecified Viral Meningitis	N	rs3132680	30073195	A/C	54(0.54)	7364(0.32)	3.1E-06	0.18	5.17E-06	2.5[1.7-3.6]	15(0.17)	3872(0.33)	0.066	0.4[0.2-1.1]	2.18E-05	TRIM31-AS1				ncRNA_intronic		
DX_250.41	Type I (Juvenile Type) Diabetes Mellitus With Renal Manifestations, Not Stated As Uncontrolled	Y	rs660895	32577380	A/G	29(0.43)	7389(0.18)	1.5E-05	0.39	6.27E-06	3.4[2.5-7]	14(0.32)	3873(0.19)	0.067	2.1[0.9-4.5]	4.11E-06	HLA-DRB1				intergenic		
DX_995.7	Other Adverse Food Reactions, Not Elsewhere Classified	N	rs1233487	29468809	A/G	40(0.49)	7378(0.25)	4.6E-06	0.26	2.76E-06	2.9[1.9-4.5]	11(0.09)	3876(0.25)	0.067	0.3[0.1-1.3]	3.09E-05	MAS1L			13130	intergenic		
DX_250.6	Diabetes With Neurological Manifestations	Y	rs6910071	32282854	A/G	250(0.26)	7168(0.18)	2.6E-05	0.47	2.08E-05	1.6[1.3-1.9]	223(0.22)	3664(0.19)	0.067	1.2[1-1.6]	6.82E-06	C6orf10				intronic/intronic		
DX_696.0	Psoriatic Arthropathy	Y	rs10484554	31274555	C/T	42(0.4)	7376(0.14)	1.9E-09	0.001	1.66E-10	4.2[2.7-6.4]	21(0.26)	3866(0.15)	0.068	2[1-3.9]	8.18E-10	HLA-C			34642	intergenic		
DX_362.81	Retinal Hemorrhage	N	rs181997	32900718	G/A	139(0.45)	7279(0.32)	2E-05	0.44	1.63E-05	1.7[1.3-2.2]	191(0.38)	3696(0.33)	0.071	1.2[1-1.5]	5.59E-06	HLA-DMB			1688	intergenic		
DX_696	Psoriasis And Similar Disorders	Y	rs3871466	30983683	T/C	327(0.19)	6744(0.12)	4.6E-06	0.23	2.13E-06	1.6[1.3-2.1]	180(0.16)	3564(0.12)	0.079	1.3[1-1.7]	1.56E-06	MUC22				intronic		
DX_696.1	Other Psoriasis	Y	rs746647	31114182	A/G	253(0.4)	7034(0.31)	3E-05	0.48	2.34E-05	1.5[1.2-1.8]	148(0.36)	3656(0.31)	0.079	1.2[1-1.6]	9.04E-06	CCHCR1				intronic/intronic		
DX_302.8	Other Specified Psychosexual Disorders	Y	rs12210887	31815723	G/T	6(0.58)	7412(0.06)	1.1E-06	0.1	5.49E-07	21.3[6.7-67.1]	5(0.2)	3882(0.07)	0.072	3.5[0.7-16.6]	4.21E-07	C6orf48			8180	intergenic		
DX_250.51	Type I (Juvenile Type) Diabetes Mellitus With Ophthalmic Manifestations, Not Stated As Uncontrolled	Y	rs9275312	32665728	A/G	69(0.3)	7349(0.13)	6.1E-08	0.018	1.62E-08	2.9[2-4.2]	26(0.21)	3861(0.13)	0.084	1.7[0.9-3.4]	2.78E-08	HLA-DQB1			31262	intergenic		
DX_696.1	Other Psoriasis	Y	rs2523619	31318144	T/C	253(0.33)	7034(0.2)	5.8E-12	0.0000081	7.22E-13	2[1.7-2.4]	148(0.25)	3656(0.21)	0.087	1.3[1-1.7]	3.9E-12	HLA-B			3505	intergenic		
DX_718.96	Locking Joint, Knee	AMBIGUOUS	rs580962	32925692	C/T	10(0.9)	7408(0.4)	2.6E-06	0.17	0.000462	13.6[3.2-58.6]	2(0)	3885(0.41)	0.089	[0-NA]	1.78E-05	HLA-DMA			4793	intergenic		
DX_718.96	Locking Joint, Knee	AMBIGUOUS	rs206777	32925246	G/A	10(0.85)	7408(0.39)	2E-05	0.44	0.000519	8.8[2.6-29.9]	2(0)	3885(0.4)	0.09	[0-NA]	0.000121	BRD2			3264	intergenic		
DX_357.2	Polynuropathy In Diabetes	N	rs660895	32577380	A/G	241(0.26)	7177(0.19)	4.8E-05	0.56	3.77E-05	1.6[1.3-1.9]	212(0.22)	3675(0.19)	0.09	1.2[1-1.6]	1.61E-05	HLA-DRB1			19767	intergenic		
DX_357.2	Polynuropathy In Diabetes	N	rs6910071	32282854	A/G	241(0.27)	7177(0.18)	1.6E-05	0.4	9.86E-06	1.6[1.3-2]	212(0.22)	3675(0.19)	0.092	1.2[1-1.6]	5.73E-06	C6orf10				intronic/intronic		
DX_791.2	Hemoglobinuria	N	rs1116221	30017130	C/T	293(0.19)	7125(0.27)	3.6E-05	0.52	9.49E-05	0.6[0.5-0.8]	197(0.22)	3690(0.26)	0.092	0.8[0.6-1]	1.23E-05	TRIM31				exonic	nonsynonymous SNV	TRIM31-NM_007028:exon9:c.G1261A:p.E421K
DX_705.81	Dysidrosis	N	rs2844657	30829522	A/G	374(0.27)	7044(0.21)	4.1E-05	0.53	2.89E-05	1.4[1.2-1.7]	146(0.24)	3741(0.2)	0.094	1.3[1-1.7]	1.42E-05	DDR1			20868	intergenic		
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs9275595	32681355	T/C	70(0.39)	7348(0.22)	1.9E-06	0.14	1.02E-06	2.3[1.7-3.3]	31(0.3)	3856(0.21)	0.095	1.6[0.9-2.8]	8.22E-07	HLA-DQA2			27808	intergenic		
DX_652.21	Breath Presentation Without Mention Of Version, Delivered	N	rs1116221	30017130	C/T	160(0.37)	7258(0.26)	3.4E-05	0.51	2.13E-05	1.6[1.3-2.1]	17(0.38)	3870(0.26)	0.095	1.8[0.9-3.6]	1.21E-05	TRIM31				exonic	nonsynonymous SNV	TRIM31-NM_007028:exon9:c.G1261A:p.E421K
DX_377.31	Optic Papillitis	N	rs9394145	33399778	C/T	4(1)	7414(0.29)	2.9E-05	0.48	0.5752	NA[NA-NA]	9(0.11)	3878(0.3)	0.098	0.3[0.1-1.3]	0.99879	SYNGAP1				intronic		
DX_696.0	Psoriatic Arthropathy	Y	rs3130467	31187075	C/T	42(0.5)	7376(0.27)	4.3E-06	0.23	4.98E-06	2.7[1.8-4.2]	21(0.38)	3866(0.27)	0.1	1.6[0.9-3.1]	1.86E-06	HCG27			15330	intergenic;intergenic		
DX_608.86	Edema Of Male Genital Organs	Y	rs2743335	31899944	G/A	46(0.7)	7372(0.49)	4.7E-05	0.56	6.89E-05	2.4[1.5-3.8]	46(0.41)	3841(0.5)	0.1	0.7[0.5-1.1]	1.8E-05	C2				intronic		
DX_696.1	Other Psoriasis	Y	rs3823418	31100942	G/A	253(0.25)	7034(0.16)	9.3E-08	0.023	3.52E-08	1.8[1.5-2.2]	148(0.2)	3656(0.17)	0.11	1.3[1-1.7]	5E-08	PSORS1C1				intronic		
DX_429.0	Myocarditis, Unspecified	Y	rs2071538	32818678	G/A	14(0.61)	7404(0.25)	3.7E-05	0.52	8.18E-05	4.7[2.2-10]	11(0.41)	3876(0.25)	0.11	2[0.9-4.8]	1.55E-05	TAP1				intronic		
DX_696.0	Psoriatic Arthropathy	Y	rs2523619	31318144	T/C	42(0.4)	7376(0.2)	9E-06	0.31	4.45E-06	2.8[1.8-4.3]	21(0.31)	3866(0.21)	0.11	1.7[0.9-3.2]	3.9E-06	HLA-B			3505	intergenic		
DX_696.1	Other Psoriasis	Y	rs4711268	31354504	C/T	253(0.35)	7034(0.25)	6.7E-07	0.075	4.23E-07	1.6[1.3-1.9]	148(0.3)	3656(0.26)	0.11	1.2[1-1.6]	3.52E-07	MICA			13057	intergenic		
DX_696.1	Other Psoriasis	Y	rs4711268	31354819	C/T	253(0.35)	7034(0.25)	8.9E-07	0.088	5.01E-07	1.6[1.3-1.9]	148(0.3)	3656(0.26)	0.11	1.2[1-1.6]	4.59E-07	MICA			12742	intergenic		
DX_696.1	Other Psoriasis	Y	rs13437082	31354560	C/T	253(0.35)	7034(0.25)	8.9E-07	0.088	5.07E-07	1.6[1.3-1.9]	148(0.3)	3656(0.26)	0.11	1.2[1-1.6]	4.6E-07	MICA			13001	intergenic		
DX_300.29	Other Isolated Or Specific Phobias	Y	rs362511	29530850	A/G	120(0.11)	7280(0.21)	4.3E-05	0.53	0.000147	0.5[0.3-0.7]	8(0.16)	3866(0.21)	0.11	0.7[0.5-1.1]	1.7E-05	UBD			3148	intergenic		
DX_995.7	Other Adverse Food Reactions, Not Elsewhere Classified	N	rs3129012	29988642	G/A	40(0.36)	7378(0.17)	2.1E-05	0.45	8.43E-06	2.8[1.8-4.5]	11(0.05)	3876(0.17)	0.12	0.2[0-1.8]	0.000124	ZNRD1-AS1				ncRNA_intronic		
DX_426.2	Left Bundle Branch Hemiblock	N	rs3094549	29355148	C/A	10(10.45)	7317(0.3)	2.5E-04	0.46	1.81E-05	1.8[1.4-2.1]	12(0.35)	3760(0.3)	0.12	1.2[0.9-1.6]	1.11E-05	OR12O2			9268	intergenic		
DX_696.1	Other Psoriasis	Y	rs9496003	31407828	T/C	253(0.23)	7034(0.15)	9.1E-07	0.089	2.65E-07	1.7[1.4-2.1]	148(0.18)	3656(0.15)	0.12	1.3[0.9-1.7]	5.08E-07	HCP5			23129	intergenic		
DX_696	Psoriasis And Similar Disorders	Y	rs3130467	31187075																			

DX_795.08	Unsatisfactory Cervical Cytology Smear	N	rs1419881	31130593	G/A	35(0.69)	7383(0.44)	4E-05	0.53	7.91E-05	2.81(1.7-4.6)	13(0.58)	3874(0.44)	0.2	1.7(0.8-3.7)	2.85E-05	TCF19	UTR3;UTR3		
DX_579.0	Celiac Disease	Y	rs130340	32244627	T/C	47(0.41)	7371(0.22)	2.2E-05	0.45	1.09E-05	2.5(1.7-3.8)	13(0.12)	3874(0.22)	0.2	0.5(0.1-1.5)	0.000122	C6orf10	15848	intergenic	
DX_579.0	Celiac Disease	Y	rs1315553	32245827	C/T	47(0.41)	7371(0.22)	2.2E-05	0.45	1.09E-05	2.5(1.7-3.8)	13(0.12)	3874(0.22)	0.2	0.5(0.1-1.5)	0.000122	C6orf10	14648	intergenic	
DX_579.0	Celiac Disease	Y	rs6935269	32260350	T/C	47(0.41)	7371(0.22)	2.2E-05	0.45	1.1E-05	2.5(1.7-3.8)	13(0.12)	3874(0.22)	0.2	0.5(0.1-1.5)	0.000122	C6orf10		downstream	
DX_697	Lichen	N	rs13192471	32671103	T/C	187(0.25)	7231(0.14)	3.3E-07	0.049	6.33E-08	1.9(1.5-2.4)	157(0.17)	3730(0.14)	0.2	1.2(0.9-1.6)	3.14E-07	HLA-DQB1	36637	intergenic	
DX_854.00	Intracranial Injury Of Other And Unspecified Nature, Without Mention Of Open Intracranial Wound, Unspecified State Of Consciousness	N	rs2021723	30103923	G/A	253(0.06)	7165(0.12)	2.9E-05	0.48	0.000159	0.5(0.3-0.7)	81(0.15)	3806(0.12)	0.2	1.3(0.9-2)	0.000162	TRIM40	UTR5		
DX_781.8	Neurological Neglect Syndrome	N	rs423639	32987774	C/T	14(0.36)	7404(0.07)	4.6E-06	0.23	3.23E-07	7.7(3.8-16.8)	9(0.11)	3878(0.06)	0.21	1.8(0.4-8)	4.01E-06	HLA-DQA	10385	intergenic	
DX_696.0	Poriatic Arthropathy	Y	rs2395185	32433167	G/T	42(0.52)	7376(0.29)	1.5E-05	0.39	1.5E-05	2.6(1.7-4.7)	21(0.38)	3866(0.3)	0.21	1.4(0.8-2.7)	1.17E-05	HLA-DRA	20341	intergenic	
DX_250.01	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Not Stated As Uncontrolled	Y	rs2523535	31336250	A/G	146(0.5)	7272(0.37)	1.1E-05	0.34	9.52E-06	1.7(1.3-2.1)	106(0.41)	3781(0.36)	0.21	1.2(0.9-1.6)	8.92E-06	HLA-B	11261	intergenic	
DX_434.91	Unspecified Cerebral Artery Occlusion With Cerebral Infarction	AMBIGUOUS	rs13192471	32671103	T/C	183(0.08)	7173(0.15)	3.1E-05	0.5	0.000119	0.5(0.3-0.7)	208(0.17)	3591(0.14)	0.21	1.2(0.9-1.5)	0.00017	HLA-DQB1	36637	intergenic	
DX_537.0	Acquired Hypertrophic Pyloric Stenosis	AMBIGUOUS	rs805274	31665194	T/C	28(0.52)	7390(0.26)	3E-05	0.48	2.22E-05	3.1(1.8-5.2)	24(0.19)	3863(0.27)	0.22	0.6(0.3-1.3)	0.000168	AHD16A		intronic	
DX_716.67	Unspecified Monoarthritis, Ankle And Foot	N	rs2516390	31529883	C/T	38(0.64)	7380(0.41)	2.5E-05	0.47	4.64E-05	2.6(1.7-4.2)	38(0.34)	3849(0.41)	0.22	0.7(0.5-1.2)	0.000138	NFKB1L1	3277	intergenic	
DX_714.0	Rheumatoid Arthritis	Y	rs3817973	32361111	C/T	164(0.52)	7165(0.41)	4.8E-05	0.56	4.17E-05	1.6(1.3-2)	150(0.45)	3644(0.41)	0.22	1.2(0.9-1.5)	3.64E-05	HCG23		ncRNA_intronic	
DX_714.0	Rheumatoid Arthritis	Y	rs4424066	32354428	A/G	164(0.52)	7165(0.41)	4.8E-05	0.56	4.47E-05	1.6(1.3-2)	150(0.45)	3644(0.41)	0.22	1.2(0.9-1.5)	3.64E-05	HCG23	3859	intergenic	
DX_726.9	Unspecified Entesopathy	N	rs2071550	32730940	C/A	435(0.41)	6983(0.33)	5.8E-06	0.25	1.22E-05	1.4(1.2-1.6)	286(0.31)	3601(0.34)	0.22	0.9(0.7-1.1)	3.55E-05	HLA-DQB2		intronic	
DX_474	Chronic Disease Of Tonsils And Adenoids	N	rs3115663	31601843	T/C	339(0.13)	6863(0.19)	5E-05	0.57	8.45E-05	0.6(0.5-0.8)	390(0.24)	3782(0.19)	0.22	1.4(0.8-2.3)	0.000259	PRRC2A		intronic	
DX_558.9	Other And Unspecified Noninfectious Gastroenteritis And Colitis	AMBIGUOUS	rs4151657	31917540	T/C	107(0.41)	5194(0.35)	1.3E-05	0.35	1.11E-05	1.2(1.1-1.4)	583(0.36)	2772(0.34)	0.23	1.1(1-1.2)	1.04E-05	CFB		intronic	
DX_756.15	Congenital Fusion Of Spine (Vertebrae)	N	rs926070	32257566	G/A	17(0.03)	7401(0.32)	3.8E-05	0.52	0.00715	0.1(0.05)	8(0.44)	3879(0.31)	0.23	1.7(0.6-4.6)	0.000203	C6orf10	2909	intergenic	
DX_597.81	Urethral Syndrome Nos	N	rs3135363	32389648	A/G	14(0.68)	7404(0.3)	2.5E-05	0.47	9.63E-05	4.9(2.2-10.9)	13(0.19)	3874(0.3)	0.24	0.6(0.2-1.5)	0.000137	BTNL2	14748	intergenic	
DX_344.0	Quadriplegia And Quadripareis	N	rs7765379	32680928	T/G	19(0.34)	7399(0.1)	3.7E-05	0.52	1.27E-05	4.6(2.3-9.9)	12(0.17)	3875(0.1)	0.24	1.7(0.6-5.1)	3.04E-05	HLA-DQA2	28235	intergenic	
DX_345.90	Unspecified Epilepsy Without Mention Of Intractable Epilepsy	Y	rs1076832	30419831	C/A	142(0.26)	7276(0.16)	4.2E-05	0.53	1.43E-05	1.8(1.4-2.4)	60(0.21)	3827(0.17)	0.24	1.3(0.8-2)	3.55E-05	HLA-E	37352	intergenic	
DX_270	Disorders Of Amino-Acid Transport And Metabolism	N	rs7751856	32698988	C/A	37(0.22)	7381(0.47)	8.3E-06	0.29	3.67E-05	0.3(0.2-0.5)	26(0.56)	3861(0.47)	0.24	1.4(0.8-2.4)	4.93E-05	HLA-DQA2		intergenic	10175
DX_381.1	Chronic Serous Otitis Media	Y	rs1810472	33083121	T/C	94(0.42)	7324(0.28)	5E-05	0.57	4.55E-05	1.8(1.4-2.5)	33(0.35)	3854(0.28)	0.25	1.3(0.8-2.2)	4.17E-05	HLA-DPB2		ncRNA_intronic	
DX_381.10	Simple Or Unspecified Chronic Serous Otitis Media	Y	rs1810472	33083121	T/C	94(0.42)	7324(0.28)	5E-05	0.57	4.55E-05	1.8(1.4-2.5)	33(0.35)	3854(0.28)	0.25	1.3(0.8-2.2)	4.17E-05	HLA-DPB2		ncRNA_intronic	
DX_842.0	Wrist Sprain And Strain	N	rs29232	29611431	C/T	268(0.45)	6685(0.36)	2.1E-05	0.45	1.53E-05	1.5(1.2-1.7)	74(0.41)	3608(0.36)	0.25	1.2(0.9-1.7)	1.89E-05	GABBR1	10469	intergenic	
DX_727.09	Other Synovitis And Tenosynovitis	N	rs176248	32695942	G/A	348(0.2)	6590(0.27)	3.2E-05	0.5	3.21E-05	0.7(0.6-0.8)	223(0.23)	3329(0.26)	0.25	0.9(0.7-1.1)	2.85E-05	HLA-DQA		intergenic	6018
DX_686.0	Pyoderma	N	rs2517451	30914751	C/T	7(0.023)	7348(0.1)	1.6E-05	0.41	6.82E-06	2.5(1.7-3.8)	42(0.07)	3845(0.11)	0.26	0.6(0.3-1.4)	9.21E-05	DCPCR1		intronic	
DX_28.9	Other Operations On Tonsils And Adenoids	N	rs2517613	30165662	G/A	5(0.7)	7413(0.14)	3.9E-05	0.52	0.000129	14.7(3.8-57.7)	2(0.25)	3885(0.13)	0.26	2.0(2.0-21)	3.57E-05	TRIM26		intronic	
DX_448	Disease Of Capillaries	N	rs1611185	29768344	T/C	181(0.51)	6944(0.4)	5E-05	0.57	3.82E-05	1.5(1.2-1.9)	113(0.44)	3578(0.4)	0.26	1.2(0.9-1.5)	4.35E-05	LOC554223		intronic	2760
DX_558	Other And Unspecified Noninfectious Gastroenteritis And Colitis	AMBIGUOUS	rs4151657	31917540	T/C	110(0.4)	5163(0.35)	2E-05	0.44	1.88E-05	1.2(1.1-1.4)	594(0.36)	2753(0.34)	0.26	1.1(0.9-1.2)	1.9E-05	CFB		intronic	
DX_530.11	Reflux Esophagitis	Y	rs422951	32188383	T/C	192(0.36)	7048(0.48)	6E-06	0.25	2.5E-06	0.6(0.5-0.8)	144(0.43)	3616(0.47)	0.26	0.9(0.7-1.1)	6.22E-06	NOTCH4		exonic	nonsynonymous SNV NOTCH4:NM_004557:exon6:c.A958G;p.T320A
DX_854.00	Intracranial Injury Of Other And Unspecified Nature, Without Mention Of Open Intracranial Wound, Unspecified State Of Consciousness	N	rs2257914	30120563	C/A	253(0.06)	7165(0.12)	1E-05	0.32	8.99E-05	0.5(0.3-0.7)	81(0.15)	3806(0.13)	0.26	1.3(0.8-2)	5.88E-05	TRIM10		UTR3	
DX_364.02	Recurrent Iridocyclitis	N	rs2844505	31439063	C/T	22(0.66)	7396(0.27)	5.7E-08	0.017	2.85E-07	5.2(2.8-9.7)	21(0.36)	3866(0.28)	0.27	1.4(0.8-2.7)	7.74E-08	HCG26		ncRNA_exonic	
DX_250.51	Type I (Juvenile Type) Diabetes Mellitus With Ophthalmic Manifestations, Not Stated As Uncontrolled	Y	rs9275595	32681355	T/C	69(0.38)	7349(0.22)	7.7E-06	0.29	4.01E-06	2.3(1.6-3.2)	26(0.27)	3861(0.21)	0.27	1.4(0.7-2.6)	8.01E-06	HLA-DQA2	27808	intergenic	
DX_696	Psoriasis And Similar Disorders	Y	rs8192591	32185796	C/T	327(0.07)	6744(0.03)	3.6E-06	0.2	5.63E-07	2.2(1.6-3.1)	180(0.04)	3564(0.03)	0.27	1.3(0.8-2.2)	3.94E-06	NOTCH4		exonic	nonsynonymous SNV NOTCH4:NM_004557:exon9:c.G1600A;p.G534S
DX_696.1	Other Psoriasis	Y	rs2523467	31362930	C/T	253(0.42)	7034(0.32)	4.7E-06	0.23	3.68E-06	1.5(1.3-1.8)	148(0.36)	3656(0.33)	0.27	1.1(0.9-1.5)	5.08E-06	MICA	4631	intergenic	
DX_696.1	Other Psoriasis	Y	rs2596542	31366595	C/T	253(0.42)	7034(0.32)	5.7E-06	0.25	4.08E-06	1.5(1.3-1.8)	148(0.36)	3656(0.33)	0.27	1.1(0.9-1.5)	6.04E-06	MICA		upstream	
DX_530.11	Reflux Esophagitis	Y	rs394657	32187023	A/G	192(0.37)	7048(0.48)	1.6E-05	0.4	1.01E-05	0.6(0.5-0.8)	144(0.43)	3616(0.47)	0.27	0.9(0.7-1.1)	1.57E-05	NOTCH4		intronic	
DX_756.3	Other Congenital Anomaly Of Ribs And Sternum	N	rs9260734	29932666	G/A	8(0.62)	7410(0.15)	1.4E-05	0.38	1.96E-05	9.2(3.3-25.2)	5(0)	3882(0.15)	0.28	0(0-NA)	7.6E-05	HCG9	10222	intergenic	
DX_995.7	Other Adverse Food Reactions, Not Elsewhere Classified	N	rs3131296	32172993	C/T	40(0.32)	7378(0.14)	1.7E-05	0.42	3.57E-06	3(1.9-4.8)	11(0.05)	3876(0.14)	0.28	0.3(0.2-2)	9.43E-05	NOTCH4		intronic	
DX_279.3	Unspecified Immunity Deficiency	N	rs17839997	30339293	A/C	9(0.44)	7409(0.06)	1.6E-06	0.13	1.15E-07	13.2(5.2-33.6)	5(0.1)	3882(0.06)	0.28	1.8(0.2-14.2)	1.94E-06	TRIM39-RPP21	24658	intergenic	
DX_250.03	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Uncontrolled	Y	rs3129882	32409530	G/A	7(0.22)	7348(0.4)	8.9E-08	0.023	8.14E-07	0.4(0.2-0.5)	31(0.37)	3856(0.44)	0.28	0.7(0.4-1.3)	1.22E-07	HLA-DRA		intronic/intronic	
DX_214.8	Lipoma Of Other Specified Sites	N	rs6457109	29933261	T/C	36(0.26)	7382(0.09)	9.7E-06	0.32	1.49E-06	3.6(2.1-6.2)	27(0.13)	3860(0.09)	0.29	1.4(0.6-3.2)	1.08E-05	HCG9	9631	intergenic	
DX_696.1	Other Psoriasis	Y	rs8192591	32185796	C/T	253(0.08)	7034(0.03)	2.6E-07	0.042	2.01E-08	2.6(1.9-3.6)	148(0.04)	3656(0.03)	0.29	1.3(0.7-2.3)	3.51E-07	NOTCH4		exonic	nonsynonymous SNV NOTCH4:NM_004557:exon9:c.G1600A;p.G534S
DX_579.0	Celiac Disease	Y	rs6457536	32273765	A/G	47(0.4)	7371(0.22)	3.5E-05	0.52	1.94E-05	2.4(1.6-3.7)	13(0.12)	3874(0.22)	0.29	0.5(0.1-1.6)	0.000181	C6orf10		intronic	
DX_842	Sprains And Strains Of Wrist And Hand	N	rs29232	29611431	C/T	567(0.43)	6084(0.36)	2.3E-06	0.16	1.29E-06	1.3(1.2-1.5)	170(0.39)	3349(0.36)	0.29	1.1(0.9-1.4)	2.71E-06	GABBR1	10469	intergenic	
DX_720.0	Ankylosing Spondylitis	Y	rs4711268	31354504	C/T	35(0.49)	7383(0.25)	3.4E-05	0.51	1.85E-05	2.8(1.7-4.5)	12(0.33)	3875(0.26)	0.3	1.4(0.6-3.4)	3.51E-05	MICA	13057	intergenic	
DX_720.0	Ankylosing Spondylitis	Y	rs4711269	31354819	C/T	35(0.49)	7383(0.25)	3.4E-05	0											

DX_807.04	Closed Fracture Of Four Ribs	N	rs176248	32965942	G/A	17(0)	7401(0.26)	2.9E-05	0.48	NA	0(0-NA)	16(0.31)	3871(0.26)	0.48	1.3(0.6-2.8)	0.000138	HLA-DOA	6018	intergenic				
DX_789.39	Abdominal Or Pelvic Swelling, Mass, Or Lump, Other Specified Site	AMBIGUOUS	rs375555	33557741	T/C	193(0.28)	7225(0.19)	3.7E-05	0.52	4.54E-05	1.7(1.3-2.1)	121(0.19)	3766(0.2)	0.49	0.9(0.6-1.2)	0.00017	LINC00336	ncRNA	intronic				
DX_558	Other And Unspecified Noninfectious Gastroenteritis And	AMBIGUOUS	rs7751856	32698988	C/A	1100(0.43)	5163(0.48)	1.4E-05	0.38	2.31E-05	0.8(0.7-0.9)	594(0.48)	2753(0.47)	0.49	1(0.9-1.2)	6.98E-05	HLA-DQA2	10175	intergenic				
DX_692.72	Acute Dermatitis Due To Solar Radiation	AMBIGUOUS	rs721394	33117818	C/T	121(0.07)	7297(0.17)	1.4E-05	0.38	9.89E-05	0.4(0.2-0.6)	113(0.18)	3774(0.16)	0.49	1.1(0.8-1.6)	6.83E-05	COL11A2	12651	intergenic				
DX_302.72	Colitis	N	rs3763313	32376471	A/C	66(0.07)	7352(0.21)	4.6E-05	0.55	0.000467	0.3(0.2-0.6)	52(0.21)	3835(0.19)	0.49	1.2(0.7-1.9)	0.000208	BTNL2	1571	intergenic;intergenic				
DX_992.8	Acute Dermatitis Due To Solar Radiation	N	rs6917517	31082363	C/T	12(0.54)	7406(0.18)	4.2E-05	0.53	5E-05	5.4(2.4-12)	4(0.25)	3883(0.18)	0.5	1.5(0.3-7.5)	6.9E-05	PSORS1C1;CDSN		upstream;downstream				
DX_720.9	Psychosocial Dysfunction With Inhibited Sexual Excitement	N	rs2844505	31439063	C/T	3(0.52)	7388(0.27)	4.3E-05	0.53	5.53E-05	2.9(1.7-4.8)	8(0.19)	3879(0.28)	0.5	0.6(0.2-2.1)	0.000195	HCG26		ncRNA_exonic				
DX_692.72	Unspecified Inflammatory Synovopathy	AMBIGUOUS	rs13437000	33105064	T/C	121(0.08)	7297(0.18)	2.6E-05	0.47	0.000185	0.4(0.3-0.7)	113(0.18)	3774(0.17)	0.5	1.1(0.8-1.6)	0.000124	HLA-DPB2	8174	intergenic				
DX_692.72	Acute Dermatitis Due To Solar Radiation	AMBIGUOUS	rs13437000	33105064	T/C	121(0.08)	7297(0.18)	2.6E-05	0.47	0.000185	0.4(0.3-0.7)	113(0.18)	3774(0.17)	0.5	1.1(0.8-1.6)	0.000124	HLA-DPB2	8174	intergenic				
DX_250.51	Type I (Juvenile Type) Diabetes Mellitus With Ophthalmic Manifestations, Not Started As Uncontrolled	Y	rs3135338	32401217	C/T	69(0.12)	7349(0.32)	1.9E-07	0.036	4.61E-06	0.3(0.2-0.5)	26(0.27)	3861(0.32)	0.5	0.8(0.4-1.5)	4.53E-07	HLA-DRA	6402	intergenic;intergenic				
DX_214.8	Lipoma Of Other Specified Sites	N	rs9468692	30119800	G/T	36(0.22)	7382(0.07)	1.7E-05	0.42	2.7E-06	3.9(2.2-6.7)	27(0.09)	3860(0.07)	0.51	1.3(0.5-3.2)	3.14E-05	TRIM10		UTR3				
DX_074.0	Herpangina	N	rs9277920	33125725	G/A	34(0.57)	7384(0.33)	3.2E-05	0.5	5.18E-05	2.8(1.7-4.5)	8(0.25)	3879(0.33)	0.51	0.7(0.2-2.1)	0.000148	COL11A2		4744	intergenic			
DX_216.5	Benign Neoplasm Of Skin Of Trunk, Except Scrotum	Y	rs9264942	31274380	T/C	807(0.31)	7576(0.36)	2.5E-05	0.47	8.93E-05	0.8(0.7-0.9)	333(0.36)	3144(0.37)	0.51	0.9(0.8-1.1)	4.4E-05	HLA-C		34467	intergenic			
DX_047	Meningitis Due To Enterovirus	N	rs909728	29719561	T/C	54(0.62)	7364(0.42)	2.8E-05	0.48	4.5E-05	2.2(1.5-3.3)	15(0.37)	3872(0.43)	0.52	0.8(0.4-1.6)	0.000127	IFITMIP		upstream;upstream				
DX_047.9	Unspecified Viral Meningitis	N	rs909728	29719561	T/C	54(0.62)	7364(0.42)	2.8E-05	0.48	4.5E-05	2.2(1.5-3.3)	15(0.37)	3872(0.43)	0.52	0.8(0.4-1.6)	0.000127	IFITMIP		upstream;upstream				
DX_697	Lichen	N	rs1794275	32671248	G/A	187(0.28)	7231(0.17)	2.8E-07	0.045	5.99E-08	1.9(1.5-2.4)	157(0.18)	3730(0.17)	0.52	1.1(0.8-1.5)	6.63E-07	HLA-DQB1		36782	intergenic			
DX_780.52	Insomnia, Unspecified	Y	rs2860580	29906691	A/G	488(0.36)	6568(0.44)	3.9E-05	0.52	4.41E-05	0.7(0.6-0.8)	279(0.42)	3372(0.43)	0.52	0.9(0.8-1.1)	6.66E-05	HLA-A		3556	intergenic			
DX_372.05	Acute Atopic Conjunctivitis	N	rs4713668	33690796	C/T	251(0.36)	6937(0.46)	6.2E-06	0.26	4.64E-06	0.7(0.5-0.8)	90(0.49)	3703(0.47)	0.52	1.1(0.8-1.5)	3.2E-05	IPK3		exonic	nonsynonymous SNV			IPK3:NM_054111:exon6:c.G934A;p.V3121;IPK3:NM_001142883:exon7:c.G934A:p.V3121
DX_372.05	Acute Atopic Conjunctivitis	N	rs2281829	33675642	A/G	251(0.36)	6937(0.46)	7.7E-06	0.29	5.74E-06	0.7(0.5-0.8)	90(0.49)	3703(0.47)	0.52	1.1(0.8-1.5)	3.92E-05	UQC22		intronic				
DX_696.0	Poriatic Arthropathy	Y	rs8192591	32185796	C/T	42(0.14)	7376(0.03)	1.3E-05	0.37	5.72E-07	4.9(2.6-9.1)	21(0.05)	3866(0.03)	0.53	1.4(0.3-6)	2.46E-05	NOTCH4		exonic	nonsynonymous SNV			NOTCH4:NM_004557:exon9:c.G1600A;p.G5345
DX_583.81	Nephritis And Nephropathy, Not Specified As Acute Or Chronic, With Other Specified Pathological Lesion In Kidney, In Diseases Classified Elsewhere	Y	rs2395163	32387809	T/C	135(0.31)	7283(0.21)	4.6E-05	0.55	2.94E-05	1.7(1.3-2.3)	112(0.19)	3775(0.21)	0.53	0.9(0.6-1.2)	0.000202	BTNL2		intergenic;intergenic				
DX_719.49	Pain In Joint, Multiple Sites	N	rs403414	32977315	A/G	663(0.23)	6110(0.16)	3E-07	0.047	1.97E-06	1.6(1.3-1.8)	419(0.16)	3082(0.16)	0.53	0.9(0.8-1.1)	1.89E-06	HLA-DOA		UTR5				
DX_289.3	Lymphadenitis, Unspecified, Except Mesenteric	N	rs2071544	32806121	T/C	426(0.55)	6992(0.48)	1.7E-05	0.41	1.36E-05	1.4(1.2-1.6)	119(0.49)	3768(0.47)	0.53	1.1(0.8-1.4)	3.80E-05	TAP2		intronic				
DX_753.9	Unspecified Congenital Anomaly Of Urinary System	N	rs2763979	31794592	C/T	10(0.8)	7408(0.35)	2.3E-05	0.45	0.000329	7.6(2.5-22.7)	9(0.28)	3878(0.35)	0.54	0.7(0.3-2)	0.000108	HSPA18		upstream				
DX_214.8	Lipoma Of Other Specified Sites	N	rs2523946	29941943	C/T	36(0.69)	7382(0.43)	9.2E-06	0.31	1.24E-05	3(1.8-5)	27(0.48)	3860(0.44)	0.54	1.2(0.7-2)	1.81E-05	HCG9		upstream				
DX_696.0	Poriatic Arthropathy	Y	rs9368699	31802541	T/C	42(0.15)	7376(0.04)	7.1E-06	0.28	3.79E-07	4.9(2.7-8.8)	21(0.05)	3866(0.04)	0.55	1.2(0.3-5)	1.45E-05	C6orf48;SNORD48		upstream				
DX_579.0	Celiac Disease	Y	rs204994	32154998	C/T	47(0.44)	7371(0.22)	3.1E-06	0.18	1.25E-06	2.8(1.8-4.2)	13(0.15)	3874(0.21)	0.55	0.7(0.2-1.9)	1.63E-05	PBX2		intronic				
DX_753.9	Unspecified Congenital Anomaly Of Urinary System	N	rs805294	31688217	A/G	10(0.85)	7408(0.36)	4.5E-06	0.23	0.000256	10.2(3-34.9)	9(0.28)	3878(0.36)	0.55	0.7(0.2-1.9)	2.34E-05	LYGGC		intronic				
DX_550.92	Inguinal Hernia Without Mention Of Obstruction Or Gangrene, Bilateral, (Not Specified As Recurrent)	Y	rs1329299	32900787	C/T	127(0.24)	7291(0.14)	2.6E-05	0.47	4.61E-06	1.9(1.4-2.6)	119(0.16)	3768(0.15)	0.55	1.1(0.8-1.6)	4.75E-05	HLA-DMB		intergenic				
DX_710.1	Systemic Sclerosis	N	rs13192471	32671103	T/C	32(0)	7386(0.15)	4E-05	0.53	NA	0(0-NA)	35(0.11)	3852(0.14)	0.55	0.8(0.4-1.6)	7.21E-05	HLA-DQB1		intergenic				
DX_558.9	Other And Unspecified Noninfectious Gastroenteritis And	AMBIGUOUS	rs7751856	32698988	C/A	1074(0.43)	5194(0.48)	1.4E-05	0.38	2.35E-05	0.8(0.7-0.9)	583(0.48)	2772(0.47)	0.55	1(0.9-1.2)	6.85E-05	HLA-DQA2		intergenic				
DX_597.89	Other Urthritis	N	rs9498114	33571857	G/T	8(0.59)	7410(0.21)	1.7E-05	0.42	7.76E-05	8.9(3.1-25.6)	5(0.1)	3882(0.2)	0.56	0.4(0.1-3.5)	7.98E-05	UQC22		intronic				
DX_597.89	Other Urthritis	N	rs597386	33668618	A/C	8(0.69)	7410(0.21)	1.7E-05	0.42	7.75E-05	8.9(3.1-25.5)	5(0.1)	3882(0.2)	0.56	0.4(0.1-3.5)	8E-05	UQC22		intronic				
DX_746.4	Congenital Insufficiency Of Aortic Valve	N	rs2844513	31388214	G/A	33(0.7)	7385(0.24)	2.3E-05	0.45	5.16E-05	2.9(1.7-5)	9(0.5)	3878(0.44)	0.56	1.3(0.5-3.2)	4.34E-05	MICA		intergenic				
DX_995.7	Other Adverse Food Reactions, Not Elsewhere Classified	N	rs389883	31947460	G/T	40(0.5)	7378(0.28)	3.8E-05	0.52	3.15E-05	2.5(1.6-4)	11(0.23)	3876(0.29)	0.56	0.7(0.3-2)	0.000167	STK19		intronic				
DX_753.9	Unspecified Congenital Anomaly Of Urinary System	N	rs644827	31838441	T/C	10(0.9)	7408(0.43)	2.2E-05	0.45	0.000857	12(2.8-51.9)	9(0.5)	3878(0.44)	0.56	1.3(0.5-3.3)	4.23E-05	SLC44A4		exonic	nonsynonymous SNV			SLC44A4:NM_001178044:exon10:c.A850G;p.M284V;SLC44A4:NM_001178045:exon11:c.A748G;p.M250Y;SLC44A4:NM_025257:exon11:c.A976G;p.M326V
DX_910.8	Other And Unspecified Superficial Injury Of Face, Neck, And Scalp, Without Mention Of Infection	N	rs2284178	31432125	C/T	92(0.61)	7326(0.45)	1.6E-05	0.4	1.67E-05	1.9(1.4-2.6)	45(0.49)	3842(0.46)	0.56	1.1(0.8-1.7)	3.18E-05	HCP5		ncRNA_exonic				
DX_690	Erythematousquamous Dermatitis	N	rs3871466	30983683	T/C	485(0.17)	7040(0.12)	4.8E-06	0.23	2.62E-06	1.5(1.3-1.8)	406(0.13)	3118(0.13)	0.56	1.1(0.9-1.3)	1.02E-05	MUC22		intronic				
DX_705.81	Dyshidrosis	N	rs3094694	30451904	T/C	374(0.25)	6400(0.18)	3.5E-05	0.52	2.57E-05	1.5(1.2-1.7)	146(0.2)	3741(0.18)	0.56	1.1(0.8-1.5)	6.48E-05	HLA-E		intergenic				
DX_736.70	Unspecified Deformity Of Ankle And Foot, Acquired	N	rs775228	32658079	T/C	79(0.03)	7339(0.13)	1.9E-05	0.44	0.000729	0.2(0.1-0.5)	68(0.11)	3819(0.13)	0.56	0.8(0.5-1.4)	3.75E-05	HLA-DQB1		intergenic				
DX_719.49	Pain In Joint, Multiple Sites	N	rs2284191	32976654	G/A	663(0.14)	6110(0.08)	2.7E-07	0.043	8.65E-07	1.8(1.4-2.2)	419(0.08)	3082(0.08)	0.57	0.9(0.7-1.2)	1.67E-06	HLA-DOA		intergenic				
DX_202.81	Other Malignant Lymphomas Of Lymph Nodes Of Head, Face, And Neck	Y	rs2246618	31478986	C/T	6(0.92)	7412(0.33)	1.9E-05	0.44	0.002858	22.8(2.9-176.3)	4(0.38)	3883(0.31)	0.58	1.3(0.3-5.5)	3.88E-05	MICB		downstream				
DX_720.0	Ankylosing Spondylitis	Y	rs3128982	31417191	A/G	35(0.53)	7383(0.29)	2.2E-05	0.45	2.37E-05	2.8(1.7-4.4)	12(0.33)	3875(0.29)	0.58	1.2(0.5-2.9)	4.36E-05	HCP5		intergenic				
DX_528.2	Oral Aphthae	N	rs1634718	30972865	A/G	418(0.21)	7000(0.28)	2.9E-06	0.18	5.25E-06	0.7(0.6-0.8)	191(0.28)	3696(0.27)	0.58	1.1(0.8-1.3)	1.53E-05	MUC22		upstream				
DX_995.7	Other Adverse Food Reactions, Not Elsewhere Classified	N	rs3749971	29342775	G/A	40(0.25)	7378(0.09)	2E-05	0.44	5.17E-06	3.3(2.5-5)	11(0.05)	3876(

DX_995.7	Other Adverse Food Reactions, Not Elsewhere Classified	N	rs1235162	29537224	A/G	40(0.25)	7378(0.1)	3.7E-05	0.52	1.02E-05	3.1[1.9-5.2]	11(0.05)	3876(0.1)	0.6	0.4[0.1-3.2]	0.000157	UBD		9522	Intergenic			
DX_250.5	Diabetes With Ophthalmic Manifestations	Y	rs3135338	32401217	C/T	263(0.23)	7155(0.32)	3.8E-05	0.52	6.17E-05	0.7[0.5-0.8]	252(0.33)	3635(0.32)	0.6	1.1[0.9-1.3]	0.000161	HLA-DRA		6402	Intergenic;intergenic			
DX_250.01	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Not Stated As Uncontrolled	Y	rs2395150	32326045	G/A	146(0.29)	7272(0.41)	3.5E-05	0.52	4.46E-05	0.6[0.5-0.8]	106(0.42)	3781(0.41)	0.6	1.1[0.8-1.4]	0.000151	C6orf10					intronic	
DX_749.00	Cleft Palate, Unspecified	N	rs241425	32804909	A/G	15(0.83)	7403(0.44)	1.4E-05	0.38	0.000194	6.3[2.4-16.5]	4(0.38)	3883(0.46)	0.61	0.7[0.2-3]	6.57E-05	TAP2						intronic
DX_749.0	Cleft Palate	N	rs241425	32804909	A/G	21(0.76)	7397(0.44)	2.3E-05	0.45	0.000135	4[2-8.2]	4(0.38)	3883(0.46)	0.61	0.7[0.2-3]	0.000101	TAP2						intronic
DX_249.00	Secondary Diabetes Mellitus Without Mention Of Complication, Not Stated As Uncontrolled, Or Unspecified	Y	rs9295928	30823630	T/C	5(0.8)	7413(0.15)	5E-06	0.23	7.83E-05	22.4[7.4-105.3]	8(0.19)	3879(0.15)	0.61	1.3[0.4-4.5]	1.15E-05	DDR1		26760	Intergenic			
DX_579.0	Celiac Disease	Y	rs805294	31688217	A/G	47(0.57)	7371(0.36)	1.5E-05	0.39	2.12E-05	2.5[1.6-3.7]	13(0.31)	3874(0.36)	0.61	0.8[0.3-1.8]	6.8E-05	LV66GC						intronic
DX_696	Psoriasis And Similar Disorders	Y	rs389883	31947460	G/T	327(0.21)	6744(0.29)	3.2E-05	0.5	4.85E-05	0.7[0.6-0.8]	18(0.28)	3564(0.29)	0.61	0.9[0.7-1.2]	6.5E-05	STK19						intronic
DX_995.7	Other Adverse Food Reactions, Not Elsewhere Classified	N	rs3099844	31448976	C/A	40(0.32)	7378(0.12)	6.2E-07	0.07	1.01E-07	3.6[2.2-5.8]	11(0.14)	3876(0.11)	0.62	1.2[0.4-4.2]	1.65E-06	HCG26		8791	Intergenic;intergenic			
DX_579.0	Edema Or Excessive Weight Gain In Pregnancy, With Delivery, With Or Without Mention Of Antepartum Complication	N	rs1150754	32050758	C/T	14(0.46)	7404(0.15)	3.3E-05	0.51	1.95E-05	5.1[2.4-10.7]	1(0)	3886(0.14)	0.63	0[0-NA]	0.000141	TNXB						intronic
DX_579.0	Celiac Disease	Y	rs7775397	32261252	T/G	47(0.3)	7371(0.11)	2.1E-07	0.038	2.43E-08	3.6[2.3-5.6]	13(0.12)	3874(0.1)	0.63	1.1[0.3-3.8]	6.11E-07	C6orf10						exonic
DX_696.0	Poriatic Arthropathy	Y	rs3093662	31544189	A/G	42(0.19)	7376(0.06)	3.5E-05	0.52	1.06E-05	3.6[2.1-6.2]	21(0.07)	3866(0.06)	0.63	1.2[0.4-3.8]	7.26E-05	TNF						intronic
DX_579.0	Celiac Disease	Y	rs389884	31940897	A/G	47(0.3)	7371(0.11)	2.5E-07	0.04	7.72E-08	3.5[2.3-5.5]	13(0.12)	3874(0.1)	0.63	1.2[0.3-3.8]	6.98E-07	STK19						intronic
DX_579.0	Celiac Disease	Y	rs558702	31870326	G/A	47(0.3)	7371(0.11)	3.2E-07	0.049	3.67E-08	3.5[2.2-5.4]	13(0.12)	3874(0.1)	0.63	1.2[0.3-3.9]	9.05E-07	C2						intronic
DX_579.0	Celiac Disease	Y	rs1270942	31918860	A/G	47(0.3)	7371(0.11)	3.2E-07	0.049	3.7E-08	3.5[2.2-5.4]	13(0.12)	3874(0.1)	0.63	1.1[0.3-3.8]	9.06E-07	CFB						intronic
DX_579.0	Celiac Disease	Y	rs3117582	31620520	T/G	47(0.3)	7371(0.11)	3.5E-07	0.05	4.05E-08	3.5[2.2-5.4]	13(0.12)	3874(0.1)	0.63	1.1[0.3-3.8]	9.64E-07	APOM						intronic
DX_579.0	Celiac Disease	Y	rs3131379	31721033	G/A	47(0.3)	7371(0.11)	4E-07	0.05	5.11E-08	3.4[2.2-5.4]	13(0.12)	3874(0.1)	0.63	1.1[0.3-3.8]	1.1E-06	MSH5-SAPCD1						ncRNA_intronic
DX_305.91	Other, Mixed, Or Unspecified Nondependent Drug Abuse,	N	rs991760	32823567	G/A	97(0.15)	7321(0.06)	2E-05	0.44	4.6E-06	2.6[1.7-3.8]	18(0.08)	3869(0.07)	0.63	1.2[0.4-4]	4.28E-05	PSMB8						intronic
DX_696	Psoriasis And Similar Disorders	Y	rs9368699	31802541	T/C	327(0.08)	6744(0.04)	1.4E-06	0.12	9.21E-08	2.2[1.7-3]	18(0.04)	3564(0.04)	0.63	1.1[0.7-1.9]	3.57E-06	C6orf48_SWORD48						upstream
DX_692.81	Dermatitis Due To Cosmetics	AMBIGUOUS	rs241451	32796480	T/C	66(0.17)	7352(0.34)	4.2E-05	0.53	0.000152	0.4[0.3-0.7]	29(0.29)	3858(0.33)	0.63	0.8[0.5-1.5]	8.53E-05	TAP2						UTR3
DX_579.0	Celiac Disease	Y	rs7750641	31129310	C/T	47(0.28)	7371(0.12)	2.1E-05	0.45	4.51E-06	2.9[1.8-4.6]	13(0.08)	3874(0.11)	0.64	0.7[0.2-2.8]	9.25E-05	TCF19						exonic
DX_690.10	Seborrheic Dermatitis, Unspecified	AMBIGUOUS	rs3871466	30983683	T/C	368(0.18)	6685(0.12)	7.8E-06	0.29	4.06E-06	1.6[1.3-1.9]	318(0.13)	3301(0.13)	0.64	1.1[0.8-1.3]	1.83E-05	MUC22						intronic
DX_607.84	Impotence Of Organic Origin	N	rs2256594	32186872	A/G	598(0.1)	6612(0.15)	1.7E-05	0.42	NA	0.7[0.5-0.8]	508(0.14)	3245(0.14)	0.64	1[0.9-1.3]	7.5E-05	NOTCH4						intronic
DX_579.0	Celiac Disease	Y	rs3099844	31448976	C/A	47(0.31)	7371(0.12)	8E-07	0.084	1.39E-07	3.3[2.1-5.1]	13(0.08)	3874(0.11)	0.65	0.6[0.2-2.7]	4.34E-06	HCG26						intergenic;intergenic
DX_842.13	Sprain Of Interphalangeal (Joint) Of Hand	N	rs259937	30007493	T/C	91(0.15)	7327(0.06)	3.4E-05	0.51	8.85E-06	2.6[1.7-3.9]	24(0.04)	3863(0.06)	0.65	0.7[0.2-2.7]	0.000141	TNFR1-AS1						ncRNA_intronic
DX_721.8	Other Allied Disorders Of Spine	AMBIGUOUS	rs1077394	31610384	C/T	10(0.85)	7408(0.32)	8.1E-07	0.085	6.25E-05	12.1[3.5-41.2]	17(0.29)	3870(0.33)	0.65	0.8[0.4-1.8]	4.4E-06	BAG6						intronic
DX_593.8	Other Specified Disorders Of Kidney And Ureter	Y	rs2516440	31440497	G/A	94(0.19)	7324(0.33)	4.8E-05	0.56	0.000135	0.5[0.3-0.7]	58(0.3)	3829(0.32)	0.65	0.9[0.6-1.4]	9.98E-05	HCG26						downstream
DX_250.51	Type I (Juvenile Type) Diabetes Mellitus With Ophthalmic Manifestations, Not Stated As Uncontrolled	Y	rs3129934	32336187	T/C	69(0.05)	7349(0.17)	3.7E-05	0.52	0.000574	0.3[0.1-0.6]	26(0.13)	3861(0.17)	0.65	0.8[0.3-1.7]	7.87E-05	C6orf10						intronic;intronic
DX_441.9	Rupture	Y	rs8192585	32188823	G/A	31(0.19)	7387(0.04)	9.6E-06	0.31	6.07E-07	5.2[2.8-9.8]	34(0.03)	3853(0.04)	0.66	0.7[0.2-2.7]	4.4E-05	NOTCH4						exonic
DX_754.69	Other Congenital Valvular Deformity Of Feet	N	rs2269423	32145707	A/C	16(0.72)	7402(0.37)	4.1E-05	0.53	0.000158	4.4[2.9-6]	6(0.42)	3881(0.37)	0.66	1.2[0.4-3.8]	8.78E-05	AGPAT1						intronic
DX_579.0	Celiac Disease	Y	rs3094061	30321189	A/C	47(0.3)	7371(0.12)	7.0E-06	0.29	1.17E-06	3[1.9-4.7]	13(0.08)	3874(0.12)	0.66	0.6[0.1-2.5]	3.57E-05	TRIM39-RPP21						intergenic
DX_720.9	Unspecified Inflammatory Spondylopathy	Y	rs2248462	31446796	G/A	30(0.45)	7388(0.22)	3.7E-05	0.52	1.99E-05	3[1.8-5]	8(0.25)	3879(0.22)	0.66	1.2[0.4-3.7]	7.82E-05	HCG26						intergenic;intergenic
DX_250.81	Type I (Juvenile Type) Diabetes Mellitus With Other Specified Manifestations, Not Stated As Uncontrolled	Y	rs660895	32577380	A/G	39(0.38)	7379(0.18)	3.8E-05	0.52	1.62E-05	2.8[1.8-4.4]	9(0.22)	3878(0.19)	0.66	1.2[0.4-3.8]	8.15E-05	HLA-DRB1		19767	Intergenic			
DX_074.0	Herpangina	N	rs2854028	33179689	C/T	34(0.49)	7384(0.24)	7.1E-06	0.28	7.13E-06	3[1.9-4.9]	8(0.19)	3879(0.24)	0.67	0.7[0.2-2.5]	3.32E-05	RING1						exonic
DX_402.10	Benign Hypertensive Heart Disease Without Heart Failure	Y	rs423639	32987774	C/T	59(0.18)	7359(0.07)	2.8E-05	0.48	9.48E-06	3[1.9-4.8]	75(0.05)	3812(0.06)	0.67	0.8[0.4-1.7]	0.000118	HLA-DOA						intergenic
DX_579.0	Celiac Disease	Y	rs3131296	32129993	C/T	47(0.38)	7371(0.14)	3.3E-09	0.0016	3.39E-10	3.8[2.5-5.8]	13(0.15)	3874(0.14)	0.67	1.1[0.4-3.3]	1.22E-08	NOTCH4						intronic
DX_579.0	Celiac Disease	Y	rs1150754	32050758	C/T	47(0.31)	7371(0.15)	3.7E-05	0.52	1.58E-05	2.6[1.7-4.1]	13(0.15)	3874(0.14)	0.67	1.1[0.4-3.2]	8.12E-05	TNXB						intronic
DX_696.1	Other Psoriasis	Y	rs3093662	31544189	A/G	253(0.12)	7034(0.06)	3.1E-07	0.048	2.67E-08	2.2[1.6-2.8]	148(0.07)	3656(0.06)	0.67	1.1[0.7-1.7]	9.31E-07	TNF						intronic
DX_564.4	Other Postoperative Functional Disorders	AMBIGUOUS	rs6916921	31520426	C/T	6(0.67)	7412(0.1)	2.6E-06	0.17	5.47E-06	17.1[5.1-56.9]	2(0)	3885(0.1)	0.68	0[0-NA]	1.3E-05	NFKB1L1						intronic
DX_250.01	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Not Stated As Uncontrolled	Y	rs3135338	32401217	C/T	146(0.18)	7272(0.32)	8.6E-07	0.088	3.12E-06	0.5[0.4-0.7]	106(0.33)	3781(0.32)	0.68	1.1[0.8-1.4]	4.55E-06	HLA-DRA						intergenic;intergenic
DX_793.19	Other Nonspecific Abnormal Finding Of Lung Field	AMBIGUOUS	rs13198118	30770732	T/G	168(0.09)	7250(0.17)	8.5E-05	0.55	0.000194	0.5[0.3-0.7]	172(0.15)	3715(0.16)	0.68	0.9[0.7-1.3]	9.85E-05	IER3						intergenic
DX_780.71	Chronic Fatigue Syndrome	Y	rs9262176	30731330	C/T	16(0.22)	7402(0.13)	3.9E-05	0.52	NA	8.6[3.6-20.4]	8(0)	3879(0.03)	0.69	0[0-NA]	0.000155	IER3						intergenic
DX_579.0	Celiac Disease	Y	rs1980493	32363215	T/C	47(0.34)	7371(0.15)	6.6E-06	0.27	2.29E-06	2.8[1.9-4.4]	13(0.12)	3874(0.15)	0.69	0.7[0.2-2.4]	3.06E-05	BTNL2						intronic
DX_250.01	Type I (Juvenile Type) Diabetes Mellitus Without Mention Of Complication, Not Stated As Uncontrolled	Y	rs9275595	32681355	T/C	146(0.33)	7272(0.22)	4.7E-06	0.23	2.95E-06	1.8[1.4-2.3]	106(0.22)	3781(0.21)	0.7	1.1[0.8-1.5]	1.24E-05	HLA-DQA2						intergenic
DX_724.00	Spinal Stenosis, Unspecified Region Other Than Cervical	N	rs9394145	33399778	C/T	137(0.19)	7281(0.31)	4.9E-05	0.57	9.47E-05	0.5[0.4-0.7]	182(0.31)	3705(0.3)	0.7	1[0.8-1.3]	0.000191	SYNGAP1						intronic
DX_579.0	Celiac Disease	Y	rs3115663	31601843	T/C	47(0.41)	7371(0.19)	4.6E-07	0.056	1.67E-07	3[2-4.6]	13(0.15)	3874(0.19)	0.71	0.8[0.3-2.3]	2.48E-06	PRRC2A						intronic
DX_696.0																							

