Appendix 6. Comparison of genotype frequencies of the controls and AMD (subgroup) cases between all study populations

	Controls					
rs3754219	Chi^2	20.258	df	10	p-value	0.0269
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	44	56	121	194	110	711
Heterozygous (Aa)	84	108	187	298	194	1109
Homozygous (aa)	51	48	57	115	79	401
MAF	0.520	0.481	0.412	0.435	0.460	0.430
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.415	0.001	0.014	0.113	0.002
AREDS	NA	NA	0.060	0.250	0.770	0.124
Columbia	NA	NA	NA	0.420	0.151	0.526
Franconian	NA	NA	NA	NA	0.534	0.872
IOWA	NA	NA	NA	NA	NA	0.312
Rotterdam	NA	NA	NA	NA	NA	NA
rs4660687	Chi^2	14.886	df	10	p-value	0.1363
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	71	73	133	212	127	772
Heterozygous (Aa)	57	90	174	296	191	1091
Homozygous (aa)	22	43	56	100	61	358
MAF	0.337	0.427	0.394	0.408	0.413	0.407
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.062	0.067	0.017	0.010	0.007
AREDS	NA	NA	0.246	0.281	0.211	0.154
Columbia	NA	NA	NA	0.829	0.671	0.780
Franconian	NA	NA	NA	NA	0.869	0.974
IOWA	NA	NA	NA	NA	NA	0.881
Rotterdam	NA	NA	NA	NA	NA	NA
rs841853	Chi^2	20.602	df	10	p-value	0.0241
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	104	111	158	265	67	1027
Heterozygous (Aa)	62	90	170	260	49	961
Homozygous (aa)	13	14	27	66	14	229
MAF	0.246	0.274	0.315	0.332	0.296	0.320
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.341	0.010	0.007	0.398	0.009
AREDS	NA	NA	0.256	0.076	0.340	0.126
Columbia	NA	NA	NA	0.165	0.115	0.140
Franconian	NA	NA	NA	NA	0.360	0.748
IOWA	NA	NA	NA	NA	NA	0.438
Rotterdam	NA	NA	NA	NA	NA	NA

	All AMD cases					
rs3754219	Chi^2	8.493	df	10	p-value	0.5808
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	118	289	352	238	338	335
Heterozygous (Aa)	184	437	524	380	532	531
Homozygous (aa)	56	191	215	176	221	203
MAF	0.413	0.447	0.437	0.461	0.446	0.438
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.106	0.218	0.038	0.156	0.361
AREDS	NA	NA	0.814	0.709	0.882	0.533
Columbia	NA	NA	NA	0.348	0.808	0.745
Franconian	NA	NA	NA	NA	0.599	0.242
IOWA	NA	NA	NA	NA	NA	0.758
Rotterdam	NA	NA	NA	NA	NA	NA
rs4660687	Chi^2	28.303	df	10	p-value	0.0016
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	95	330	360	307	338	340
Heterozygous (Aa)	133	400	548	379	542	517
Homozygous (aa)	51	171	181	107	178	212
MAF	0.421	0.412	0.418	0.374	0.424	0.440
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.621	0.691	0.110	0.569	0.726
AREDS	NA	NA	0.030	0.010	0.010	0.075
Columbia	NA	NA	NA	0.022	0.859	0.155
Franconian	NA	NA	NA	NA	0.006	0.000
IOWA	NA	NA	NA	NA	NA	0.173
Rotterdam	NA	NA	NA	NA	NA	NA
rs841853	Chi^2	8.372	df	10	p-value	0.5925
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	150	429	519	374	153	493
Heterozygous (Aa)	168	383	451	326	136	459
Homozygous (aa)	41	112	113	80	27	117
MAF	0.348	0.328	0.313	0.312	0.301	0.324
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.216	0.128	0.152	0.169	0.352
AREDS	NA	NA	0.471	0.467	0.220	0.648
Columbia	NA	NA	NA	0.992	0.607	0.699
Franconian	NA	NA	NA	NA	0.681	0.718
IOWA	NA	NA	NA	NA	NA	0.443
Rotterdam	NA	NA	NA	NA	NA	NA

	CNV					
rs3754219	Chi^2	10.967	df	8	p-value	0.2036
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	60	98	NE	135	197	25
Heterozygous (Aa)	91	160	NE	192	318	33
Homozygous (aa)	25	64	NE	93	134	6
MAF	0.401	0.447	#VALUE!	0.450	0.451	0.352
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.270	NE	0.081	0.149	0.556
AREDS	NA	NA	NE	0.544	0.959	0.104
Columbia	NE	NE	NE	NE	NE	NE
Franconian	NA	NA	NE	NA	0.575	0.060
IOWA	NA	NA	NE	NA	NA	0.072
Rotterdam	NA	NA	NE	NA	NA	NA
rs4660687	Chi^2	12.534	df	8	p-value	0.1289
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	52	113	NE	152	205	23
Heterozygous (Aa)	55	132	NE	205	324	31
Homozygous (aa)	26	67	NE	62	103	10
MAF	0.402	0.426	#VALUE!	0.393	0.419	0.398
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.821	NE	0.237	0.115	0.614
AREDS	NA	NA	NE	0.045	0.024	0.509
Columbia	NE	NE	NE	NE	NE	NE
Franconian	NA	NA	NE	NA	0.421	0.985
IOWA	NA	NA	NE	NA	NA	0.850
Rotterdam	NA	NA	NE	NA	NA	NA
rs841853	Chi^2	17.602	df	8	p-value	0.0244
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	65	139		199	82	17
Heterozygous (Aa)	89	144		172	80	38
Homozygous (aa)	22	42		44	13	9
MAF	0.378	0.351	#DIV/0!	0.313	0.303	0.438
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.380293198	NE	0.048	0.093	0.324
AREDS	NA	NA	NE	0.322	0.165	0.046
Columbia	NE	NE	NE	NE	NE	NE
Franconian	NA	NA	NE	NA	0.399	0.006
IOWA	NA	NA	NE	NA	NA	0.013
Rotterdam	NA	NA	NE	NA	NA	NA

	CNV + mixed					
rs3754219	Chi^2	5.630	df	8	p-value	0.6886
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	151	167	170	208	38
Heterozygous (Aa)	NE	251	248	256	342	51
Homozygous (aa)	NE	98	107	120	139	14
MAF	#VALUE!	0.447	0.443	0.454	0.450	0.383
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	0.689	0.503	0.967	0.236
Columbia	NE	NA	NA	0.836	0.740	0.244
Franconian	NE	NA	NA	NA	0.595	0.137
IOWA	NE	NA	NA	NA	NA	0.191
Rotterdam	NE	NA	NA	NA	NA	NA
rs4660687	Chi^2	15.592	df	8	p-value	0.0486
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	174	169	211	216	37
Heterozygous (Aa)	NE	215	257	259	346	47
Homozygous (aa)	NE	99	93	75	107	19
MAF	#VALUE!	0.423	0.427	0.375	0.419	0.413
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	0.218	0.020	0.026	0.908
Columbia	NE	NA	NA	0.051	0.628	0.751
Franconian	NE	NA	NA	NA	0.061	0.460
IOWA	NE	NA	NA	NA	NA	0.512
Rotterdam	NE	NA	NA	NA	NA	NA
rs841853	Chi^2	6.986	df	8	p-value	0.5381
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	232	250	258	87	41
Heterozygous (Aa)	NE	212	216	220	86	51
Homozygous (aa)	NE	60	49	60	14	11
MAF	#VALUE!	0.329	0.305	0.316	0.305	0.354
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	0.427	0.811	0.225	0.379
Columbia	NE	NA	NA	0.680	0.531	0.266
Franconian	NE	NA	NA	NA	0.254	0.251
IOWA	NE	NA	NA	NA	NA	0.441
Rotterdam	NE	NA	NA	NA	NA	NA

	Late AMD					
rs3754219	Chi^2	8.723	df	10	p-value	0.5585
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	95	205	226	212	238	56
Heterozygous (Aa)	132	324	351	338	376	89
Homozygous (aa)	40	138	153	158	154	30
MAF	0.397	0.450	0.450	0.462	0.445	0.426
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.096	0.083	0.027	0.134	0.687
AREDS	NA	NA	0.982	0.762	0.956	0.579
Columbia	NA	NA	NA	0.804	0.901	0.525
Franconian	NA	NA	NA	NA	0.566	0.326
IOWA	NA	NA	NA	NA	NA	0.681
Rotterdam	NA	NA	NA	NA	NA	NA
rs4660687	Chi^2	16.732	df	10	p-value	0.0805
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	71	239	241	273	243	61
Heterozygous (Aa)	92	291	367	338	384	81
Homozygous (aa)	34	125	119	96	119	33
MAF	0.406	0.413	0.416	0.375	0.417	0.420
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.797	0.636	0.415	0.489	0.918
AREDS	NA	NA	0.074	0.022	0.029	0.900
Columbia	NA	NA	NA	0.068	0.929	0.565
Franconian	NA	NA	NA	NA	0.048	0.196
IOWA	NA	NA	NA	NA	NA	0.426
Rotterdam	NA	NA	NA	NA	NA	NA
rs841853	Chi^2	17.742	df	10	p-value	0.0595
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	103	312	357	333	100	76
Heterozygous (Aa)	131	274	292	290	100	82
Homozygous (aa)	34	85	72	74	15	17
MAF	0.371	0.331	0.302	0.314	0.302	0.331
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.058	0.008	0.033	0.054	0.459
AREDS	NA	NA	0.237	0.495	0.052	0.289
Columbia	NA	NA	NA	0.793	0.187	0.293
Franconian	NA	NA	NA	NA	0.201	0.455
IOWA	NA	NA	NA	NA	NA	0.581
Rotterdam	NA	NA	NA	NA	NA	NA

	Early AMD					
rs3754219	Chi^2	6.812	df	10	p-value	0.7431
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	23	84	126	26	100	279
Heterozygous (Aa)	52	113	173	42	156	442
Homozygous (aa)	16	53	62	18	67	173
MAF	0.462	0.438	0.411	0.453	0.449	0.441
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.144	0.193	0.542	0.328	0.357
AREDS	NA	NA	0.454	0.816	0.738	0.493
Columbia	NA	NA	NA	0.605	0.376	0.395
Franconian	NA	NA	NA	NA	0.992	0.937
IOWA	NA	NA	NA	NA	NA	0.860
Rotterdam	NA	NA	NA	NA	NA	NA
rs4660687	Chi^2	8.423	df	10	p-value	0.5876
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	24	91	119	34	95	279
Heterozygous (Aa)	41	109	181	41	158	436
Homozygous (aa)	17	46	62	11	59	179
MAF	0.457	0.409	0.421	0.366	0.442	0.444
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.446	0.685	0.233	0.929	0.936
AREDS	NA	NA	0.383	0.457	0.232	0.227
Columbia	NA	NA	NA	0.410	0.733	0.489
Franconian	NA	NA	NA	NA	0.195	0.147
IOWA	NA	NA	NA	NA	NA	0.838
Rotterdam	NA	NA	NA	NA	NA	NA
rs841853	Chi^2	5.132	df	10	p-value	0.8822
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	47	117	162	41	53	417
Heterozygous (Aa)	37	109	159	36	36	377
Homozygous (aa)	7	27	41	6	12	100
MAF	0.280	0.322	0.333	0.289	0.297	0.323
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NA	0.576	0.400	0.936	0.557	0.494
AREDS	NA	NA	0.925	0.642	0.437	0.955
Columbia	NA	NA	NA	0.497	0.313	0.823
Franconian	NA	NA	NA	NA	0.409	0.537
IOWA	NA	NA	NA	NA	NA	0.444
Rotterdam	NA	NA	NA	NA	NA	NA

	GA					
rs3754219	Chi^2	6.054	df	8	p-value	0.6411
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	54	59	42	30	18
Heterozygous (Aa)	NE	73	103	82	34	38
Homozygous (aa)	NE	40	46	38	15	16
MAF	#VALUE!	0.458	0.469	0.488	0.405	0.486
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	0.526	0.368	0.578	0.396
Columbia	NE	NA	NA	0.864	0.291	0.846
Franconian	NE	NA	NA	NA	0.158	0.954
IOWA	NE	NA	NA	NA	NA	0.230
Rotterdam	NE	NA	NA	NA	NA	NA
rs4660687	Chi^2	4.207	df	8	p-value	0.8380
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	65	72	62	27	24
Heterozygous (Aa)	NE	76	110	79	38	34
Homozygous (aa)	NE	26	26	21	12	14
MAF	#VALUE!	0.383	0.389	0.373	0.403	0.431
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	0.347	0.746	0.829	0.636
Columbia	NE	NA	NA	0.721	0.764	0.339
Franconian	NE	NA	NA	NA	0.816	0.416
IOWA	NE	NA	NA	NA	NA	0.825
Rotterdam	NE	NA	NA	NA	NA	NA
rs841853	Chi^2	7.903	df	8	p-value	0.4430
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	80	107	75	13	35
Heterozygous (Aa)	NE	62	76	70	14	31
Homozygous (aa)	NE	25	23	14	1	6
MAF	#VALUE!	0.335	0.296	0.308	0.286	0.299
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	0.512	0.169	0.186	0.338
Columbia	NE	NA	NA	0.360	0.268	0.591
Franconian	NE	NA	NA	NA	0.605	0.978
IOWA	NE	NA	NA	NA	NA	0.641
Rotterdam	NE	NA	NA	NA	NA	NA

	Mixed					
rs3754219	Chi^2	2.456	df	6	p-value	0.8734
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	53	NE	35	11	13
Heterozygous (Aa)	NE	91	NE	64	24	18
Homozygous (aa)	NE	34	NE	27	5	8
MAF	#VALUE!	0.447	#VALUE!	0.468	0.425	0.436
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	NE	0.861	0.561	0.867
Columbia	NE	NE	NE	NE	NE	NE
Franconian	NE	NA	NE	NA	0.438	0.786
IOWA	NE	NA	NE	NA	NA	0.437
Rotterdam	NE	NA	NE	NA	NA	NA
rs4660687	Chi^2	10.745	df	6	p-value	0.0966
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	61	NE	59	11	14
Heterozygous (Aa)	NE	83	NE	54	22	16
Homozygous (aa)	NE	32	NE	13	4	9
MAF	#VALUE!	0.418	#VALUE!	0.317	0.405	0.436
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	NE	0.046	0.375	0.694
Columbia	NE	NE	NE	NE	NE	NE
Franconian	NE	NA	NE	NA	0.154	0.120
IOWA	NE	NA	NE	NA	NA	0.196
Rotterdam	NE	NA	NE	NA	NA	NA
rs841853	Chi^2	3.897	df	6	p-value	0.6906
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
Noncarrier (AA)	NE	93	NE	59	5	24
Heterozygous (Aa)	NE	68	NE	48	6	13
Homozygous (aa)	NE	18	NE	16	1	2
MAF	#VALUE!	0.291	#VALUE!	0.325	0.333	0.218
	AMRO_NL	AREDS	Columbia	Franconian	IOWA	Rotterdam
AMRO_NL	NE	NE	NE	NE	NE	NE
AREDS	NE	NA	NE	0.663	0.819	0.501
Columbia	NE	NE	NE	NA	0.913	0.241
Franconian	NE	NA	NE	NE	NE	NE
IOWA	NE	NA	NE	NA	NA	0.341
Rotterdam	NE	NA	NE	NA	NA	NA

Genotype frequencies were compared by using the Pearson χ2 test. Abbreviations: AMD= age-related macular degeneration; GA= geographic athrophy; CNV= choroidal neovascularization; Mixed= combination of GA+CNV; Chi^2= Chi square; df= degrees of freedom