

Appendix 2. Risk of AMD for *SLC2A1* SNPs rs3754219, rs4660687 and rs841853 in five replication populations

	<i>rs3754219</i>					<i>rs4660687</i>					<i>rs841853</i>				
	No AMD	All AMD cases		Late AMD		No AMD	All AMD cases		Late AMD		No AMD	All AMD cases		Late AMD	
The Rotterdam study															
	N= 2221	N=1069		N=175		N=2221	N=1069		N=175		N=2217	N=1069		N=175	
	No. (%)	No. (%)	OR (95% CI)	No. (%)	OR (95% CI)	No. (%)	No. (%)	OR (95% CI)	No. (%)	OR (95% CI)	No. (%)	No. (%)	OR (95% CI)	No. (%)	OR (95% CI)
Genotype															
Noncarrier (AA)	711 (32.0)	335 (31.3)	1	56 (32.0)	1	772 (34.8)	340 (31.8)	1	61 (34.9)	1	1027 (46.3)	493 (46.1)	1	76 (43.4)	1
Heterozygous (Aa)	1109 (49.9)	531 (49.7)	1.02 (0.86-1.21)	89 (50.8)	1.04 (0.73-1.49)	1091 (49.1)	517 (48.4)	1.11 (0.94-1.32)	81 (46.3)	0.99(0.70-1.42)	961 (43.3)	459 (42.9)	1.00 (0.86-1.18)	82 (46.9)	1.21 (0.87-1.70)
Homozygous (aa)	401 (18.0)	203 (19.0)	1.05 (0.84-1.30)	30 (17.1)	0.92 (0.57-1.47)	358 (16.1)	212 (19.8)	1.39 (1.12-1.72)	33 (18.9)	1.21(0.77-1.91)	229 (10.3)	117 (10.9)	1.11 (0.86-1.43)	17 (9.7)	1.11 (0.63-1.95)
m.a.f(%)	43	43.8		42.6		40.7	42.9		42.0		32	32.4		33.1	
The Franconian AMD study															
	N=607	N=794		N=708		N=608	N=793		N=707		N=591	N=780		N=697	
	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)
Genotype															
Noncarrier (AA)	194 (32.0)	238 (30.0)	1	212 (29.9)	1	212 (34.9)	307 (38.7)	1	273 (38.6)	1	265 (44.8)	374 (47.9)	1	333 (47.8)	1
Heterozygous (Aa)	298 (49.1)	380 (47.9)	1.04 (0.82-1.33)	338 (47.7)	1.04 (0.81-1.33)	296 (48.7)	379 (47.8)	0.88 (0.70-1.11)	338 (47.8)	0.89 (0.70-1.12)	260 (44.0)	326 (41.8)	0.89 (0.71-1.11)	290 (41.6)	0.89 (0.70-1.12)
Homozygous (aa)	115 (18.9)	176 (22.2)	1.25 (0.92-1.69)	158 (22.3)	1.26 (0.92-1.71)	100 (16.4)	107 (13.5)	0.74 (0.53-1.02)	96 (13.6)	0.75 (0.53-1.04)	66 (11.2)	80 (10.3)	0.86 (0.60-1.23)	74 (6.4)	0.89 (0.62-1.29)
m.a.f(%)	43.5	46.1		46.2		40.8	37.4		30.7		33.2	31.2		31.2	
AREDS															
	N=212	N=917		N=667		N=206	N=901		N=655		N=215	N=924		N=671	
	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)
Genotype															
Noncarrier (AA)	56 (26.4)	289 (31.5)	1	205 (30.7)	1	73 (35.4)	330 (36.6)	1	239 (36.5)	1	111 (51.6)	429 (46.4)	1	312 (46.5)	1
Heterozygous (Aa)	108 (50.9)	437 (47.7)	0.78 (0.55-1.12)	324 (48.6)	0.82 (0.57-1.18)	90 (43.7)	400 (44.4)	0.98 (0.70-1.38)	291 (44.4)	0.99 (0.69-1.41)	90 (41.9)	383 (41.4)	1.10 (0.81-1.50)	274 (40.8)	1.08 (0.79-1.49)
Homozygous (aa)	48 (22.6)	191 (20.8)	0.77 (0.50-1.18)	138 (20.7)	0.79 (0.50-1.22)	43 (20.9)	171 (19.0)	0.88 (0.58-1.34)	125 (19.1)	0.89 (0.58-1.37)	14 (6.5)	112 (12.1)	2.07 (1.14-3.76)	85 (12.7)	2.16 (1.18-3.96)
m.a.f(%)	48.1	44.6		45		42.7	41.1		41.3		27.4	32.8		33.1	
Columbia University															
	N=365	N=1091		N=730		N=363	N= 1089		N=727		N=355	N=1083		N=721	
	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)
Genotype															
Noncarrier (AA)	121 (33.2)	352 (32.3)	1	226 (31.0)	1	133 (36.6)	360 (33.1)	1	241 (33.1)	1	158 (44.5)	519 (47.9)	1	357 (49.5)	1
Heterozygous (Aa)	187 (51.2)	524 (48.0)	0.96 (0.74-1.26)	351 (48.1)	1.00 (0.76-1.33)	174 (47.9)	548 (50.3)	1.16 (0.89-1.51)	367 (50.5)	1.16 (0.88-1.54)	170 (47.9)	451 (41.6)	0.81 (0.63-1.04)	292 (40.5)	0.76 (0.58-0.99)
Homozygous (aa)	57 (15.6)	215 (19.7)	1.30 (0.91-1.85)	153 (21.0)	1.44 (0.99-2.09)	56 (15.4)	181 (16.6)	1.19 (0.83-1.71)	119 (16.4)	1.17 (0.80-1.72)	27 (7.6)	113 (10.4)	1.27 (0.81-2.01)	72 (10.0)	1.18 (0.73-1.91)
m.a.f(%)	41.2	43.7		45.0		39.4	41.8		41.6		31.5	31.2		30.2	
The University of Iowa															
	N=383	N=1091		N=768		N=379	N=1058		N=746		N=130	N=316		N=215	
	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)	No(%)	No(%)	OR (95% CI)	No(%)	OR (95% CI)
Genotype															
Noncarrier (AA)	110 (28.7)	338 (31.0)	1	238 (31.0)	1	127 (33.5)	338 (31.9)	1	243 (32.5)	1	67 (51.1)	153 (48.4)	1	100 (46.5)	1
Heterozygous (Aa)	194 (50.6)	532 (48.8)	0.89 (0.68-1.17)	376 (48.9)	0.89 (0.67-1.19)	191 (50.4)	542 (51.2)	1.07 (0.82-1.39)	384 (51.4)	1.05 (0.80-1.38)	49 (37.4)	136 (43.0)	1.21 (0.79-1.88)	100 (46.5)	1.37 (0.86-2.17)
Homozygous (aa)	79 (20.6)	221 (20.2)	0.91 (0.65-1.27)	154 (20.0)	0.90 (0.63-1.28)	61 (16.1)	178 (16.8)	1.10 (0.77-1.56)	119 (16.0)	1.02 (0.70-1.48)	14 (10.7)	27 (8.5)	0.84 (0.42-1.71)	15 (7.0)	0.72 (0.33-1.58)
m.a.f(%)	45.9	44.6		44.5		41.3	42.4		41.7		29.6	30.1		30.2	

AMD = age- related macular degeneration; CI = confidence interval; OR = odds ratio; SNP = single nucleotide polymorphism; m.a.f = minor allele frequency. "A" indicates common allele, "a" minor allele. Percentages not always add up to 100% because of rounding. ORs were estimated by logistic regression. Adjustment for age and gender only in the Rotterdam Study.