

Table 5a. Joint Effects of Complement Pathway Genotype (*CFB/C2*, *CFI*, and *C3*) and Healthy Lifestyle Score in Association with Odds for AMD in overall sample

| Genotype | No. with AMD/Total No. in Group | Most Healthy Lifestyles | 3 (n=454) | Least Healthy Lifestyle | P-value† | P-value for Multiplicative Interaction | Synergy Index (95% CI) |
|--------------------------|---------------------------------|-----------------------------|-------------------|-----------------------------|----------|--|---------------------------|
| | | 4-6 (n=769) OR* (95% CI) | OR* (95% CI) | 0-2 (n=440) OR* (95% CI) | | | |
| <i>CFB/C2</i> (rs641153) | | | | | | | |
| AA/AG | 44/278 | 1 [Reference] | 0.87 (0.40, 1.89) | 0.84 (0.37, 1.93) | 0.57 | 0.28 | 1.33 (1.11, 1.60) |
| GG | 293/1385 | 1.24 (0.74, 2.06) | 1.47 (0.86, 2.51) | 1.66 (0.97, 2.83) | 0.06 | | |
| <i>CFI</i> (rs10033900) | | | | | | | |
| GG | 92/430 | 1 [Reference] | 1.64 (0.93, 2.90) | 1.41 (0.79, 2.52) | 0.11 | 0.61 | 1.29 (0.78, 2.13) |
| GA | 148/835 | 1.01 (0.65, 1.58) | 1.11 (0.69, 1.81) | 0.91 (0.54, 1.52) | 0.7 | | |
| AA | 97/397 | 1.33 (0.80, 2.19) | 1.06 (0.57, 1.98) | 2.43 (1.41, 4.19) | 0.05 | | |
| <i>C3</i> (rs2230199) | | | | | | | |
| CC | 17/69 | 1 [Reference] | 1.37 (0.31, 6.05) | 6.02 (1.51, 24.05) | 0.01 | 0.78 | 0.22 (8.7E-13, 5.7E10) |
| GC | 105/540 | 1.58 (0.58, 4.35) | 1.27 (0.44, 3.63) | 1.42 (0.50, 4.08) | 0.66 | | |
| GG | 214/1053 | 1.26 (0.47, 3.39) | 1.69 (0.62, 4.60) | 1.68 (0.62, 4.59) | 0.11 | | |

* Adjusted for age (further adjustment for eye color and hormone therapy, or dietary LZ intake, did not alter ORs)

† P-values are for trend across lifestyle score group, within each genotype class.

Table 5b. Joint Effects of Complement Pathway Genotype (*CFB/C2*, *CFI*, and *C3*) and Healthy Lifestyle Score in Association with Odds for AMD among diet stable individuals

| Genotype | No. with AMD/Total No. in Group | Most Healthy Lifestyles | 3 (n=179) | Least Healthy Lifestyle | P-value† | P-value for Multiplicative Interaction | Synergy Index (95% CI) |
|--------------------------|---------------------------------|-----------------------------|--------------------|-----------------------------|----------|--|------------------------|
| | | 4-6 (n=353) OR* (95% CI) | OR* (95% CI) | 0-2 (n=196) OR* (95% CI) | | | |
| <i>CFB/C2</i> (rs641153) | | | | | | | |
| AA/AG | 12/116 | 1 [Reference] | 1.08 (0.24, 4.94) | 1.38 (0.34, 5.63) | 0.76 | 0.99 | 1.16 (0.48, 2.81) |
| GG | 108/612 | 2.00 (0.75, 5.37) | 1.86 (0.66, 5.25) | 2.86 (1.04, 7.84) | 0.19 | | |
| <i>CFI</i> (rs10033900) | | | | | | | |
| GG | 34/199 | 1 [Reference] | 1.03 (0.40, 2.61) | 1.13 (0.46, 2.77) | 0.78 | 0.18 | 1.43 (1.14, 1.80) |
| GA | 47/361 | 0.73 (0.37, 1.47) | 0.83 (0.37, 1.83) | 0.73 (0.33, 1.65) | 0.96 | | |
| AA | 39/168 | 1.22 (0.57, 2.63) | 0.71 (0.24, 2.10) | 2.90 (1.31, 6.41) | 0.05 | | |
| <i>C3</i> (rs2230199) | | | | | | | |
| CC | 29-Sep | 1 [Reference] | 0.86 (0.07, 11.11) | 4.72 (0.75, 29.65) | 0.10 | 0.95 | 1.08 (0.01, 169.2) |
| GC | 32/237 | 0.85 (0.22, 3.31) | 0.36 (0.08, 1.74) | 0.65 (0.14, 2.92) | 0.40 | | |
| GG | 79/462 | 0.69 (0.18, 2.59) | 0.90 (0.23, 3.54) | 1.07 (0.28, 4.09) | 0.13 | | |

* Adjusted for age (further adjustment for eye color and hormone therapy, or dietary LZ intake, did not alter ORs)

† P-values are for trend across lifestyle score group, within each genotype class.