

Association between the manganese superoxide dismutase polymorphism and breast cancer risk in the Shanghai Breast Cancer Study

| Genotype | Cases (n [%]) | Controls (n [%]) | OR ^a | 95% CI |
|---|---------------|------------------|-----------------|-----------|
| All subjects | | | | |
| Val/Val | 831 (73.9) | 884 (73.9) | 1.0 | Reference |
| Val/Ala | 266 (23.6) | 290 (24.2) | 1.0 | 0.8–1.2 |
| Ala/Ala | 28 (2.5) | 23 (1.9) | 1.3 | 0.7–2.3 |
| Val/Val and Val/Ala | 1097 (97.5) | 1174 (98.1) | 1.0 | Reference |
| Ala/Ala | 28 (2.5) | 23 (1.9) | 1.3 | 0.7–2.3 |
| Stratified analyses by menopausal status | | | | |
| Premenopausal women | | | | |
| Val/Val and Val/Ala | 729 (97.2) | 751 (98.4) | 1.0 | Reference |
| Ala/Ala | 21 (2.8) | 12 (1.6) | 1.8 | 0.9–3.7 |
| Postmenopausal women | | | | |
| Val/Val and Val/Ala | 363 (98.1) | 419 (97.4) | 1.0 | Reference |
| Ala/Ala | 7 (1.9) | 11 (2.6) | 0.8 | 0.3–2.0 |
| <i>P</i> for interaction = 0.147 | | | | |
| Stratified analyses by age | | | | |
| Age < 45 years | | | | |
| Val/Val and Val/Ala | 442 (97.1) | 488 (98.4) | 1.0 | Reference |
| Ala/Ala | 13 (2.9) | 8 (1.6) | 1.8 | 0.7–4.3 |
| Age ≥ 45 years | | | | |
| Val/Val and Val/Ala | 655 (97.8) | 686 (97.9) | 1.0 | Reference |
| Ala/Ala | 15 (2.2) | 15 (2.1) | 1.1 | 0.5–2.2 |
| <i>P</i> for interaction = 0.380 | | | | |

^aAdjusted for age. CI, confidence interval; OR, odds ratio.

controls in a Finnish Caucasian population and reported that women or had higher BMI also had an increased risk for