**Additional file 5: Table S4.** Associations of Serous-Subtype Ovarian Cancer with Pathogenic Variants in Homologous Recombination Genes among Self-Reported White Women.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gene | Median Age of PV Carriers (Casesa, Controlsb) | Crude Odds Ratio (CI) | p-value, Crudec | Adjusted Odds Ratio (CI) | p-value, Adjustedc | Case Carriers, No. (Non-Carriers)d | Control Carriers, No.(Non-Carriers) | p-value, z-teste |
| *ATM* | 60.0, 47.0 | 1.31. (0.57 to 2.83) | 0.70 | 0.61 (0.21 to 1.66) | 0.57 | 9 (1939) | 17 (4673) | 0.14 |
| *BARD1* | 66.0, 34.5 | 1.66 (0.15 to 12.46) | 0.70 | 4.32 (0.06 to 70.12) | 0.77 | 1 (1698) | 2 (4688) | 0.70 |
| *BRCA1* | 54.0, 37.0 | 50.11 (21.93 to 151.24) | 5.12x10-47 | 87.66 (36.52 to 272.70) | 4.36x10-47 | 115 (2400) | 4 (4686) | 0.73 |
| *BRCA2* | 63.0, 40.0 | 11.16 (6.97 to 18.92) | 4.23x10-31 | 8.50 (4.77 to 15.87) | 1.61x10-14 | 106 (2409) | 18 (4672) | 0.23 |
| *BRIP1* | 65.0, 46.0 | 2.92 (1.47 to 5.91) | 4.74x10-03 | 1.25 (0.50 to 3.19) | 0.77 | 18 (2044) | 14 (4676) | 0.07 |
| *CHEK2* | 63.5, 42.0 | 1.09 (0.53 to 2.12) | 0.81 | 1.66 (0.63 to 4.02) | 0.57 | 12 (2006) | 24 (4287) | 0.77 |
| *NBN* | 60.5, 37.0 | 0.71 (0.13 to 2.49) | 0.70 | 0.93 (0.14 to 4.95) | 0.94 | 2 (1744) | 9 (4681) | 0.65 |
| *PALB2* | 66.0, 39.0 | 2.24 (0.79 to 6.30) | 0.21 | 1.52 (0.35 to 7.20) | 0.77 | 7 (2094) | 7 (4683) | 0.34 |
| *RAD51C* | 58.0, 39.0 | 12.92 (2.91 to 121.42) | 8.61x10-04 | 11.38 (1.84 to 131.62) | 0.02 | 8 (2056) | 1 (4689) | 0.38 |
| *RAD51D* | 59.0, 32.5 | 10.51 (3.10 to 54.13) | 2.11x10-04 | 25.28 (4.84 to 165.13) | 2.92x10-04 | 11 (2051) | 2 (4688) | 0.72 |

aAge (in years) at time of ovarian cancer diagnosis

bAge (in years) at time of testing

cCorrected for False Discovery Rate

dAll genes were not tested for every sample

eComparing crude odds ratio to adjusted odds ratio

CI = Confidence Interval

No. = Number