

S7 Table. Unadjusted and adjusted ORs of angina, depression and chronic pain within in sib1 subset.

| Exposure (Sib1 status) | Outcome (Sib1 status) | Gender | Unadjusted | | Adjusted | |
|------------------------|-----------------------|-----------------------|------------------------------|----------------------------|----------|----------------------------|
| | | | N | OR | N | OR |
| Angina | Chronic pain | Overall | 4,042 | 5.87 [4.56 to 7.55] *** | 3,304 | 4.71 [3.52 to 6.31] *** |
| | | Female-only sib pairs | 2,451 | 6.38 [4.55 to 8.95] *** | 2,001 | 4.98 [3.39 to 7.31] *** |
| | | Male-only sib pairs | 1,584 | 6.24 [4.19 to 9.28] *** | 1,303 | 4.28 [2.70 to 6.78] *** |
| Angina | Depression | Overall | As "depression-angina" | | 3,875 | 1.69 [1.25 to 2.29] *** |
| | | Female-only sib pairs | | | 2,320 | 1.43 [0.9 to 2.12] |
| | | Male-only sib pairs | | | 1,555 | 2.23 [1.38 to 3.62] *** |
| Chronic pain | Angina | Overall | As "angina-chronic pain" | | 3,304 | 4.69 [3.50 to 6.28] *** |
| | | Female-only sib pairs | | | 2,001 | 4.98 [3.40 to 7.30] *** |
| | | Male-only sib pairs | | | 1,303 | 4.35 [2.76 to 6.87] *** |
| Chronic pain | Depression | Overall | 3,716 | 2.89 [2.36 to 3.54] *** | 3,225 | 2.48 [1.96 to 3.13] *** |
| | | Female-only sib pairs | 2,214 | 2.53 [1.99 to 3.22] *** | 1,915 | 2.33 [1.76 to 3.07] *** |
| | | Male-only sib pairs | 1,494 | 3.37 [2.32 to 4.90] *** | 1,310 | 2.94 [1.90 to 4.54] *** |
| Depression | Angina | Overall | 4,470 | 1.95 [1.50 to 2.54] *** | 3,875 | 1.71 [1.26 to 2.32] *** |
| | | Female-only sib pairs | 2,689 | 1.67 [1.19 to 2.35] ** | 2,320 | 1.42 [0.96 to 2.11] |
| | | Male-only sib pairs | 1,771 | 2.78 [1.83 to 4.24] *** | 1,555 | 2.42 [1.49 to 3.92] *** |
| Depression | Chronic pain | Overall | As "chronic pain-depression" | | 3,225 | 2.52 [2.00 to 3.18] *** |
| | | Female-only sib pairs | | | 1,915 | 2.35 [1.78 to 3.10] *** |
| | | Male-only sib pairs | | | 1,310 | 3.04 [1.9 to 4.68] *** |

** p<0.01, *** p<0.001