Supplemental Materials for “Origins of spousal cross-concordance for psychiatric disorders:

A test of the social stress theory for alcohol use disorder”

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| Table S1. Rates of spousal DAD and spousal BPN as a function of proband parental AUD history and proband premarital AUD |
|  | Males | Females |
| In total | No parental AUD | Parental AUD | No parental AUD | Parental AUD |
| Total (row %) | 317,365 (88.52%) | 41,157 (11.48%) | 339,984 (88.05%) | 46,122 (11.95%) |
| Spousal (anytime) DAD (col %) | 21.38% | 24.48% | 10.30% | 12.74% |
| Spousal (anytime) BPN (col %) | 1.32% | 1.65% | 0.66% | 0.87% |
|  | Males | Females |
| In total | No premaritalproband AUD | Premaritalproband AUD | No premaritalproband AUD | Premaritalproband AUD |
| Total (row %) | 350,954 (97.89%) | 7,568 (2.11%) | 381,809 (98.89%) | 4,297 (1.11%) |
| Spousal (anytime) DAD (col %) | 21.59% | 31.03% | 10.51% | 17.76% |
| Spousal (anytime) BPN (col %) | 1.32% | 3.17% | 0.67% | 1.84% |
| *Notes.* Abbreviations: AUD = alcohol use disorder; DAD = major depression or anxiety disorders disorder; BPN = bipolar disorder or nonaffective psychosis |

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| Table S2. Cox regression models of proband AUD as a function of proband premarital AUD prior to marriage, spousal BPN, and their interaction |
|   | MalesHR (95% CI) | FemalesHR (95% CI) |
| Spousal premarital DAD | 1.42 (1.27, 1.59) | 1.65 (1.32, 2.06) |
| Spousal DAD during marriage | 1.44 (1.30, 1.59) | 1.77 (1.49, 2.10) |
| Spousal BPN | 2.02 (1.58, 2.59) | 3.36 (2.29, 4.92) |
| Birth year | 1.04 (1.03, 1.05) | 1.05 (1.04, 1.07) |
| Proband AUD prior to marriage | 11.68 (10.64, 12.83) | 15.01 (12.83, 17.56) |
| Parental AUD | 2.17 (2.00, 2.36) | 2.26 (2.01, 2.55) |
| Low vs high parental education | 1.42 (1.27, 1.59) | 1.19 (1.00, 1.42) |
| Mid vs high parental education | 1.21 (1.12 ,1.30) | 1.30 (1.17, 1.45) |
| Parental divorce | 1.44 (1.33, 1.55) | 1.47 (1.32, 1.67) |
| Parental death | 1.23 (1.02, 1.48) | 1.85 (1.46, 2.34) |
| Interaction proband AUD and spousal BPN | 1.35 (0.88, 2.06) | 0.85 (0.32, 2.23) |
| *Notes.* Abbreviations: AUD = alcohol use disorder; DAD = major depression or anxiety disorder; BPN = bipolar disorder or nonaffective psychosis; HR = hazard ratio |