##### Supplementary Table A. *Correlations - ALS*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Age | Gen | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | Age in years | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender | 0.12 | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 | -.25\* | 0.17 | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Pain2 | -0.12 | 0.19 | .50\*\* | 1.00 |  |  |  |  |  |  |  |  |
|  | Nausea1 | -0.09 | 0.05 | .36\*\* | .38\*\* | 1.00 |  |  |  |  |  |  |  |
|  | Nausea2 | -0.13 | -0.10 | 0.08 | 0.23 | .53\*\* | 1.00 |  |  |  |  |  |  |
|  | Drowsiness1 | -0.08 | 0.00 | 0.17 | 0.17 | .34\*\* | .32\*\* | 1.00 |  |  |  |  |  |
|  | Drowsiness2 | -0.03 | 0.08 | .27\* | .40\*\* | 0.17 | .28\* | .52\*\* | 1.00 |  |  |  |  |
|  | Shortness of breath1 | -0.02 | 0.01 | .22\* | 0.08 | .31\*\* | .28\* | .43\*\* | 0.16 | 1.00 |  |  |  |
|  | Shortness of breath2 | -0.06 | 0.02 | .24\* | 0.10 | .30\* | .37\*\* | .37\*\* | 0.21 | .71\*\* | 1.00 |  |  |
|  | Anxious1 | -0.18 | 0.00 | .28\*\* | 0.19 | 0.14 | -0.15 | 0.04 | 0.15 | 0.07 | 0.16 | 1.00 |  |
|  | Anxious2 | -0.11 | 0.15 | 0.24 | .38\*\* | 0.04 | 0.03 | 0.09 | .35\*\* | 0.08 | 0.24 | .40\*\* | 1.00 |
|  | Fatigued1 | -0.04 | 0.07 | .33\*\* | .35\*\* | 0.19 | 0.23 | .46\*\* | .39\*\* | .41\*\* | .32\*\* | .29\*\* | .37\*\* |
|  | Fatigued2 | -0.14 | 0.02 | .32\* | .31\* | 0.17 | 0.16 | .41\*\* | .46\*\* | 0.17 | 0.24 | 0.18 | .40\*\* |
|  | Trouble sleeping1 | -.25\* | 0.08 | 0.18 | 0.19 | 0.13 | 0.03 | 0.15 | 0.05 | 0.19 | 0.21 | .37\*\* | 0.04 |
|  | Trouble sleeping2 | -.45\*\* | 0.04 | .42\*\* | .30\* | .37\*\* | 0.21 | 0.20 | 0.13 | 0.17 | .28\* | 0.17 | 0.20 |
|  | Weakness1 | -0.12 | -0.14 | 0.15 | 0.23 | 0.05 | 0.08 | .32\*\* | .25\* | .25\* | 0.22 | 0.16 | 0.08 |
|  | Weakness2 | -0.08 | -0.04 | .44\*\* | .31\* | 0.09 | -0.05 | .36\*\* | 0.22 | .28\* | .43\*\* | .36\*\* | 0.22 |
|  | Dizziness1 | -0.04 | -0.08 | .32\*\* | .36\*\* | .50\*\* | 0.17 | 0.08 | 0.14 | 0.11 | -0.01 | .25\* | 0.18 |
|  | Dizziness2 | -0.01 | 0.04 | 0.16 | 0.18 | 0.20 | 0.01 | 0.07 | .34\*\* | -0.16 | 0.00 | 0.06 | 0.12 |
|  | Difficulty thinking1 | 0.03 | -0.04 | 0.13 | 0.14 | .28\*\* | 0.04 | 0.05 | 0.18 | 0.01 | -0.05 | .28\*\* | .28\* |
|  | Difficulty thinking2 | 0.02 | 0.11 | 0.10 | .31\* | 0.08 | 0.11 | 0.01 | .28\* | 0.02 | 0.07 | 0.07 | .50\*\* |
|  | Neuroticism | 0.16 | 0.08 | 0.01 | 0.01 | 0.07 | -0.12 | 0.03 | 0.09 | 0.08 | 0.05 | .48\*\* | .28\* |
|  | Depression1 | 0.11 | 0.04 | 0.10 | 0.18 | 0.02 | -0.04 | 0.15 | 0.15 | 0.15 | 0.10 | .30\*\* | 0.12 |
|  | Depression2 | 0.08 | -0.03 | 0.07 | .28\* | -0.09 | -0.05 | 0.11 | 0.21 | .26\* | .33\*\* | .36\*\* | .30\* |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|  | Age in years |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued1 | 1.00 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued2 | .71\*\* | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping1 | 0.18 | 0.16 | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping2 | 0.16 | 0.24 | .48\*\* | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Weakness1 | .39\*\* | .31\* | 0.07 | 0.09 | 1.00 |  |  |  |  |  |  |  |  |
|  | Weakness2 | .58\*\* | .56\*\* | 0.22 | .32\*\* | .62\*\* | 1.00 |  |  |  |  |  |  |  |
|  | Dizziness1 | .25\* | 0.15 | 0.12 | 0.23 | 0.13 | 0.13 | 1.00 |  |  |  |  |  |  |
|  | Dizziness2 | 0.01 | 0.12 | 0.14 | 0.11 | 0.06 | 0.12 | 0.18 | 1.00 |  |  |  |  |  |
|  | Difficulty thinking1 | 0.19 | 0.15 | 0.12 | -0.09 | -0.06 | -0.11 | .40\*\* | 0.08 | 1.00 |  |  |  |  |
|  | Difficulty thinking2 | 0.23 | 0.17 | -0.16 | -0.14 | -0.03 | -0.02 | .30\* | 0.11 | .50\*\* | 1.00 |  |  |  |
|  | Neuroticism | .23\* | 0.05 | 0.15 | 0.05 | .22\* | 0.16 | 0.10 | 0.13 | .23\* | 0.16 | 1.00 |  |  |
|  | Depression1 | .36\*\* | 0.22 | 0.19 | -0.08 | .33\*\* | .36\*\* | 0.06 | 0.20 | 0.09 | 0.12 | .87\*\* | 1.00 |  |
|  | Depression2 | .35\*\* | 0.19 | 0.16 | 0.04 | .35\*\* | .47\*\* | 0.10 | 0.16 | -0.08 | 0.20 | .37\*\* | .68\*\* | 1.00 |

##### Supplementary Table B. *Correlations – COPD*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Age | Gen | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | Age in years | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender | -0.05 | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 | -0.05 | 0.13 | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Pain2 | -0.02 | 0.07 | .73\*\* | 1.00 |  |  |  |  |  |  |  |  |
|  | Nausea1 | -0.05 | 0.05 | .37\*\* | .31\*\* | 1.00 |  |  |  |  |  |  |  |
|  | Nausea2 | -0.03 | 0.00 | .27\* | .27\* | .48\*\* | 1.00 |  |  |  |  |  |  |
|  | Drowsiness1 | -0.03 | 0.03 | .26\* | .23\* | .48\*\* | .42\*\* | 1.00 |  |  |  |  |  |
|  | Drowsiness2 | .23\* | -0.16 | 0.17 | .29\*\* | .28\* | .41\*\* | .60\*\* | 1.00 |  |  |  |  |
|  | Shortness of breath1 | 0.00 | -.25\* | 0.18 | .25\* | 0.12 | 0.16 | .25\* | .22\* | 1.00 |  |  |  |
|  | Shortness of breath2 | -0.04 | -.29\*\* | -0.12 | 0.00 | -0.04 | 0.00 | 0.12 | 0.12 | .52\*\* | 1.00 |  |  |
|  | Anxious1 | 0.06 | 0.05 | .44\*\* | .35\*\* | .32\*\* | .27\* | .23\* | 0.18 | .48\*\* | 0.18 | 1.00 |  |
|  | Anxious2 | -0.04 | 0.05 | 0.18 | .35\*\* | .27\* | .41\*\* | 0.14 | .32\*\* | 0.22 | 0.20 | .47\*\* | 1.00 |
|  | Fatigued1 | 0.00 | -0.01 | .45\*\* | .46\*\* | .36\*\* | .28\* | .49\*\* | 0.20 | .36\*\* | .33\*\* | .51\*\* | .29\* |
|  | Fatigued2 | 0.01 | -.22\* | .28\* | .40\*\* | .29\* | .24\* | .40\*\* | .44\*\* | .26\* | .48\*\* | .24\* | .34\*\* |
|  | Trouble sleeping1 | 0.00 | -0.03 | .34\*\* | .36\*\* | .29\*\* | 0.22 | .32\*\* | .30\*\* | .23\* | 0.02 | .22\* | 0.18 |
|  | Trouble sleeping2 | 0.20 | 0.01 | .31\*\* | .33\*\* | 0.18 | .40\*\* | .44\*\* | .42\*\* | 0.17 | 0.14 | 0.14 | .28\* |
|  | Weakness1 | 0.02 | -0.12 | .28\*\* | .25\* | .40\*\* | 0.15 | .40\*\* | 0.19 | .47\*\* | 0.21 | .46\*\* | .25\* |
|  | Weakness2 | -0.01 | -0.18 | 0.10 | .28\* | .27\* | .33\*\* | .42\*\* | .33\*\* | .37\*\* | .52\*\* | .27\* | .30\*\* |
|  | Dizziness1 | 0.03 | -0.03 | .41\*\* | .41\*\* | .48\*\* | .33\*\* | .56\*\* | .47\*\* | .20\* | 0.14 | .30\*\* | .27\* |
|  | Dizziness2 | 0.13 | -0.12 | 0.15 | 0.19 | 0.19 | .45\*\* | .35\*\* | .36\*\* | 0.14 | 0.10 | 0.00 | 0.22 |
|  | Difficulty thinking1 | -0.07 | 0.10 | .35\*\* | 0.18 | .32\*\* | 0.12 | .34\*\* | 0.06 | .21\* | 0.20 | .34\*\* | 0.13 |
|  | Difficulty thinking2 | -0.04 | -0.16 | 0.15 | 0.11 | .41\*\* | .49\*\* | .28\* | .31\*\* | 0.15 | 0.13 | 0.11 | .25\* |
|  | Neuroticism | 0.06 | 0.09 | .38\*\* | .47\*\* | .33\*\* | .28\* | .33\*\* | .30\*\* | .49\*\* | .23\* | .58\*\* | .41\*\* |
|  | Depression1 | -0.07 | -0.11 | .22\* | .24\* | .24\* | .31\*\* | .27\*\* | 0.13 | .50\*\* | .33\*\* | .42\*\* | 0.20 |
|  | Depression2 | -0.13 | -0.16 | .29\*\* | .36\*\* | .27\* | .26\* | .26\* | 0.20 | .47\*\* | .48\*\* | .41\*\* | .32\*\* |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|  | Age in years |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued1 | 1.00 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued2 | .68\*\* | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping1 | .28\*\* | .34\*\* | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping2 | 0.22 | .35\*\* | .549\*\* | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Weakness1 | .48\*\* | .27\* | .523\*\* | 0.19 | 1.00 |  |  |  |  |  |  |  |  |
|  | Weakness2 | .45\*\* | .58\*\* | 0.20 | .26\* | .43\*\* | 1.00 |  |  |  |  |  |  |  |
|  | Dizziness1 | .43\*\* | .40\*\* | .336\*\* | 0.21 | .42\*\* | .40\*\* | 1.00 |  |  |  |  |  |  |
|  | Dizziness2 | .26\* | .33\*\* | .338\*\* | .39\*\* | .34\*\* | .40\*\* | .45\*\* | 1.00 |  |  |  |  |  |
|  | Difficulty thinking1 | .43\*\* | .24\* | 0.16 | 0.02 | .44\*\* | 0.21 | .49\*\* | 0.18 | 1.00 |  |  |  |  |
|  | Difficulty thinking2 | .34\*\* | .32\*\* | 0.10 | 0.20 | 0.18 | .25\* | .31\*\* | .48\*\* | .50\*\* | 1.00 |  |  |  |
|  | Neuroticism | .47\*\* | .33\*\* | 0.18 | 0.21 | .28\*\* | .23\* | .29\*\* | 0.10 | .35\*\* | .27\* | 1.00 |  |  |
|  | Depression1 | .33\*\* | .26\* | 0.12 | -0.08 | .52\*\* | .44\*\* | .24\* | 0.21 | .40\*\* | .34\*\* | .48\*\* | 1.00 |  |
|  | Depression2 | .46\*\* | .48\*\* | 0.13 | 0.11 | .37\*\* | .63\*\* | .33\*\* | 0.16 | .34\*\* | .33\*\* | .54\*\* | .70\*\* | 1.00 |

##### Supplementary Table C. *Correlations – ESRD*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Age | Gen | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | Age in years | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender | 0.04 | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 | 0.05 | .25\* | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Pain2 | 0.15 | .22\* | .52\*\* | 1.00 |  |  |  |  |  |  |  |  |
|  | Nausea1 | 0.00 | 0.13 | .29\*\* | .22\* | 1.00 |  |  |  |  |  |  |  |
|  | Nausea2 | 0.12 | 0.17 | 0.06 | .27\* | .34\*\* | 1.00 |  |  |  |  |  |  |
|  | Drowsiness1 | 0.11 | -0.08 | .24\* | 0.20 | .34\*\* | 0.17 | 1.00 |  |  |  |  |  |
|  | Drowsiness2 | 0.09 | 0.17 | .26\* | .47\*\* | 0.11 | .41\*\* | .41\*\* | 1.00 |  |  |  |  |
|  | Shortness of breath1 | -0.14 | -0.06 | .20\* | 0.21 | .38\*\* | 0.12 | .33\*\* | .21\* | 1.00 |  |  |  |
|  | Shortness of breath2 | -0.17 | 0.00 | 0.10 | .28\* | .26\* | 0.18 | .22\* | .26\* | .60\*\* | 1.00 |  |  |
|  | Anxious1 | 0.03 | .26\* | .28\*\* | .34\*\* | .34\*\* | .41\*\* | .27\*\* | .36\*\* | .27\*\* | 0.19 | 1.00 |  |
|  | Anxious2 | 0.07 | 0.16 | .43\*\* | .51\*\* | .23\* | .43\*\* | .30\*\* | .58\*\* | .27\* | .31\*\* | .42\*\* | 1.00 |
|  | Fatigued1 | 0.00 | 0.02 | .33\*\* | .24\* | .29\*\* | .23\* | .52\*\* | .25\* | .33\*\* | .22\* | .50\*\* | .25\* |
|  | Fatigued2 | 0.03 | 0.13 | .31\*\* | .98\*\* | .38\*\* | .39\*\* | .41\*\* | .58\*\* | .32\*\* | .25\* | .52\*\* | .36\*\* |
|  | Trouble sleeping1 | 0.16 | 0.16 | .36\*\* | .36\*\* | 0.02 | 0.05 | .33\*\* | .32\*\* | 0.11 | 0.01 | .40\*\* | .38\*\* |
|  | Trouble sleeping2 | 0.00 | 0.10 | .29\*\* | .26\* | 0.10 | 0.15 | .33\*\* | .45\*\* | .25\* | .26\* | .45\*\* | .41\*\* |
|  | Weakness1 | 0.05 | -0.01 | .32\*\* | 0.20 | .24\* | 0.19 | .34\*\* | .25\* | .36\*\* | 0.19 | .33\*\* | 0.10 |
|  | Weakness2 | 0.09 | 0.10 | .37\*\* | .46\* | .33\*\* | .36\*\* | .40\*\* | .41\*\* | .37\*\* | 0.16 | .50\*\* | .39\*\* |
|  | Dizziness1 | -0.10 | 0.02 | .27\*\* | .30\*\* | .42\*\* | .31\*\* | .29\*\* | .29\*\* | 0.13 | 0.16 | .32\*\* | .30\*\* |
|  | Dizziness2 | -0.07 | 0.06 | .37\*\* | .40\*\* | .28\*\* | .30\*\* | 0.15 | .35\*\* | 0.13 | 0.16 | .49\*\* | .23\* |
|  | Difficulty thinking1 | .22\* | 0.17 | 0.17 | .26\* | 0.10 | .40\*\* | .44\*\* | .37\*\* | 0.00 | -0.02 | .41\*\* | .39\*\* |
|  | Difficulty thinking2 | 0.21 | 0.18 | 0.17 | .31\*\* | 0.06 | .48\*\* | .33\*\* | .38\*\* | -0.02 | 0.07 | .25\* | .56\*\* |
|  | Neuroticism | -0.03 | .20\* | .34\*\* | .39\*\* | .210\* | .39\*\* | .24\* | .39\*\* | 0.15 | 0.18 | .45\*\* | .52\*\* |
|  | Depression1 | 0.01 | 0.04 | .35\*\* | .28\*\* | 0.17 | 0.13 | .32\*\* | .27\* | 0.14 | 0.06 | .44\*\* | .24\* |
|  | Depression2 | -0.07 | 0.02 | 0.19 | 0.18 | 0.09 | 0.16 | .29\*\* | .31\*\* | 0.18 | 0.07 | .41\*\* | .22\* |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|  | Age in years |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued1 | 1.00 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued2 | .56\*\* | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping1 | .34\*\* | .26\* | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping2 | .36\*\* | .35\*\* | .62\*\* | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Weakness1 | .62\*\* | .45\*\* | .25\* | .33\*\* | 1.00 |  |  |  |  |  |  |  |  |
|  | Weakness2 | .52\*\* | .53\*\* | .27\* | .35\*\* | .60\*\* | 1.00 |  |  |  |  |  |  |  |
|  | Dizziness1 | .37\*\* | .48\*\* | 0.10 | 0.11 | .36\*\* | .53\*\* | 1.00 |  |  |  |  |  |  |
|  | Dizziness2 | .24\* | .50\*\* | 0.14 | .25\* | .42\*\* | .58\*\* | .57\*\* | 1.00 |  |  |  |  |  |
|  | Difficulty thinking1 | .28\*\* | .35\*\* | .28\*\* | .32\*\* | .31\*\* | .35\*\* | 0.15 | .33\*\* | 1.00 |  |  |  |  |
|  | Difficulty thinking2 | 0.14 | .28\* | .22\* | .21\* | .22\* | .31\*\* | .21\* | .37\*\* | .75\*\* | 1.00 |  |  |  |
|  | Neuroticism | .36\*\* | .44\*\* | .25\* | .30\*\* | .34\*\* | .51\*\* | .30\*\* | .42\*\* | .32\*\* | .414\*\* | 1.00 |  |  |
|  | Depression1 | .39\*\* | .38\*\* | .28\*\* | .36\*\* | .41\*\* | .56\*\* | .30\*\* | .52\*\* | .28\*\* | 0.16 | .51\*\* | 1.00 | . |
|  | Depression2 | .32\*\* | .37\*\* | .26\* | .27\* | .26\* | .40\*\* | 0.09 | .34\*\* | .30\*\* | 0.06 | .41\*\* | .76\*\* | 1.00 |

##### Supplementary Table D. *Correlations – Frailty*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Age | Gen | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | Age in years | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender | 0.04 | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 | -0.01 | 0.12 | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Pain2 | 0.03 | 0.08 | .53\*\* | 1.00 |  |  |  |  |  |  |  |  |
|  | Nausea1 | -0.04 | .21\* | 0.19 | 0.17 | 1.00 |  |  |  |  |  |  |  |
|  | Nausea2 | 0.02 | .28\* | 0.16 | 0.20 | .34\*\* | 1.00 |  |  |  |  |  |  |
|  | Drowsiness1 | 0.02 | -0.14 | 0.14 | 0.06 | .33\*\* | .24\* | 1.00 |  |  |  |  |  |
|  | Drowsiness2 | -0.09 | 0.04 | 0.04 | 0.16 | .27\* | .36\*\* | .59\*\* | 1.00 |  |  |  |  |
|  | Shortness of breath1 | 0.10 | 0.14 | .28\*\* | 0.18 | .29\*\* | .37\*\* | .35\*\* | 0.11 | 1.00 |  |  |  |
|  | Shortness of breath2 | 0.02 | 0.09 | 0.05 | 0.10 | .37\*\* | .32\*\* | 0.16 | .28\* | .45\*\* | 1.00 |  |  |
|  | Anxious1 | -0.10 | 0.01 | .31\*\* | 0.18 | .30\*\* | 0.22 | .27\*\* | .29\* | .25\* | -0.02 | 1.00 |  |
|  | Anxious2 | -0.10 | 0.06 | 0.15 | 0.23 | .30\*\* | .38\*\* | .28\* | .34\*\* | 0.02 | 0.09 | .50\*\* | 1.00 |
|  | Fatigued1 | 0.00 | 0.01 | .27\*\* | .30\*\* | 0.05 | .26\* | .42\*\* | .49\*\* | .26\*\* | 0.11 | .47\*\* | .42\*\* |
|  | Fatigued2 | 0.08 | 0.09 | .26\* | .30\*\* | 0.18 | .32\*\* | .58\*\* | .68\*\* | .25\* | .24\* | 0.18 | .24\* |
|  | Trouble sleeping1 | -0.01 | -0.09 | 0.13 | 0.13 | -0.02 | 0.18 | .28\*\* | .50\*\* | -0.01 | 0.11 | 0.18 | .39\*\* |
|  | Trouble sleeping2 | -0.01 | -0.12 | 0.15 | 0.16 | .33\*\* | .32\*\* | .34\*\* | .50\*\* | 0.15 | 0.18 | .42\*\* | .31\*\* |
|  | Weakness1 | -0.09 | -0.12 | .36\*\* | 0.14 | 0.11 | 0.20 | .22\* | .51\*\* | .23\* | 0.13 | .43\*\* | 0.22 |
|  | Weakness2 | 0.04 | 0.11 | 0.07 | 0.20 | 0.07 | .30\*\* | 0.19 | .67\*\* | 0.15 | .32\*\* | 0.10 | 0.12 |
|  | Dizziness1 | -0.03 | 0.03 | 0.06 | 0.04 | .24\* | .27\* | .27\*\* | .26\* | .30\*\* | 0.20 | .20\* | 0.12 |
|  | Dizziness2 | 0.05 | 0.11 | 0.07 | 0.17 | 0.14 | .43\*\* | 0.09 | .40\*\* | .31\*\* | .51\*\* | 0.14 | 0.08 |
|  | Difficulty thinking1 | -0.03 | -.23\* | .26\* | .23\* | 0.14 | 0.11 | .41\*\* | .31\*\* | .30\*\* | 0.05 | .33\*\* | .27\* |
|  | Difficulty thinking2 | 0.01 | -0.16 | 0.13 | .26\* | 0.20 | 0.15 | .38\*\* | .44\*\* | .29\* | 0.17 | .32\*\* | .33\*\* |
|  | Neuroticism | -0.05 | 0.01 | 0.09 | 0.12 | -0.03 | .26\* | .28\*\* | .36\*\* | 0.04 | -0.04 | .25\* | .45\*\* |
|  | Depression1 | -0.07 | -.20\* | 0.09 | 0.13 | 0.09 | 0.20 | .26\* | .39\*\* | 0.10 | -0.09 | .26\*\* | .28\* |
|  | Depression2 | -0.14 | -0.21 | 0.09 | 0.18 | 0.04 | 0.18 | .33\*\* | .44\*\* | 0.08 | 0.02 | .35\*\* | .40\*\* |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|  | Age in years |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pain2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Nausea2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drowsiness2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Shortness of breath2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Anxious2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued1 | 1.00 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fatigued2 | .68\*\* | 1.00 |  |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping1 | .27\*\* | .41\*\* | 1.00 |  |  |  |  |  |  |  |  |  |  |
|  | Trouble sleeping2 | .26\* | 0.19 | .47\*\* | 1.00 |  |  |  |  |  |  |  |  |  |
|  | Weakness1 | .50\*\* | .45\*\* | .24\* | .32\*\* | 1.00 |  |  |  |  |  |  |  |  |
|  | Weakness2 | .34\*\* | .60\*\* | .31\*\* | .26\* | .63\*\* | 1.00 |  |  |  |  |  |  |  |
|  | Dizziness1 | .33\*\* | 0.18 | 0.06 | .29\* | .39\*\* | .24\* | 1.00 |  |  |  |  |  |  |
|  | Dizziness2 | 0.13 | .29\* | 0.10 | .29\* | .36\*\* | .48\*\* | .44\*\* | 1.00 |  |  |  |  |  |
|  | Difficulty thinking1 | .43\*\* | .25\* | .22\* | .28\* | .37\*\* | 0.18 | .55\*\* | 0.16 | 1.00 |  |  |  |  |
|  | Difficulty thinking2 | .55\*\* | .36\*\* | .39\*\* | .33\*\* | .47\*\* | .29\* | .35\*\* | 0.13 | .70\*\* | 1.00 |  |  |  |
|  | Neuroticism | .50\*\* | .34\*\* | .31\*\* | .34\*\* | .36\*\* | .35\*\* | .36\*\* | 0.00 | .38\*\* | .52\*\* | 1.00 |  |  |
|  | Depression1 | .38\*\* | .37\*\* | .25\* | .28\* | .37\*\* | .24\* | .24\* | 0.01 | .29\*\* | .43\*\* | .50\*\* | 1.00 | . |
|  | Depression2 | .61\*\* | .40\*\* | .35\*\* | .29\* | .50\*\* | .34\*\* | .29\*\* | 0.10 | .40\*\* | .52\*\* | .66\*\* | .78\*\* | 1.00 |