Table S1. Means, standard deviations, and associations among key variables

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | ***M*** | ***SD*** |
| **1.RSAspeech** |  | -0.14 | -0.11 | -0.08 | 0.57\*\*\* | 0.03 | -0.09 | -0.09 | 0.11 | 0.05 | -0.15 | 0.06 | 0.08 | -0.08 | 0.23\* | -0.18 | -0.04 | 0.14 | -0.54\*\*\* | -0.20 | -0.15 | 0.25\* | 0.16 | 1.13 |
| **2.EDAspeech** | 0.10 |  | -0.10 | 0.52\*\*\* | -0.11 | -0.02 | -0.01 | -0.11 | -0.11 | -0.15 | -0.16 | 0.23\* | -0.15 | 0.04 | -0.13 | 0.23\* | -0.23\* | -0.29\*\* | 0.04 | 0.12 | -0.03 | -0.18 | 4.70 | 1.76 |
| **3.EpiStrs** | 0.03 | 0.02 |  | -0.11 | -0.22\* | 0.36\*\* | 0.30\*\* | 0.31\*\* | -0.04 | 0.51\*\*\* | 0.31\*\* | -0.48\*\*\* | 0.47\*\*\* | 0.03 | 0.27\* | -0.13 | 0.13 | 0.22\* | -0.09 | -0.36\*\* | -0.03 | -0.30\*\* | 2.75 | 1.88 |
| **4.EDAprep** | -0.09 | 0.37\*\* | 0.16 |  | -0.13 | -0.12 | -0.01 | -0.20 | -0.11 | -0.15 | -0.24\* | 0.03 | -0.24\* | 0.01 | -0.23\* | 0.30\*\* | -0.06 | -0.27\* | 0.21 | 0.12 | 0.00 | -0.04 | 2.99 | 1.86 |
| **5.RSAprep** | 0.71\*\*\* | 0.22 | 0.03 | -0.04 |  | 0.01 | -0.06 | -0.10 | 0.13 | -0.14 | -0.18 | 0.19 | -0.11 | 0.04 | 0.17 | 0.08 | 0.02 | 0.12 | -0.34\*\* | -0.16 | -0.15 | 0.14 | 0.04 | 1.03 |
| **6.StateAnx** | 0.15 | -0.05 | 0.14 | -0.18 | 0.23 |  | 0.32\* | 0.26\* | 0.13 | 0.52\*\*\* | 0.50\*\*\* | -0.51\*\*\* | 0.73\*\*\* | 0.03 | 0.55\*\*\* | -0.04 | -0.01 | 0.45\*\*\* | -0.20 | -0.40\*\* | -0.05 | -0.25\* | 36.64 | 13.58 |
| **7.PrgnAnx** | 0.01 | 0.13 | 0.05 | 0.03 | 0.11 | 0.33\* |  | 0.2 | -0.02 | 0.14 | 0.19 | -0.28\* | 0.38\*\* | -0.02 | 0.23\* | 0.07 | -0.01 | 0.36\*\*\* | 0.05 | -0.31\*\* | -0.03 | -0.24\* | 18.64 | 5.02 |
| **8.ChildTrauma** | 0.11 | 0.03 | 0.23 | -0.02 | 0.09 | 0.29\* | 0.13 |  | 0.20 | 0.37\*\* | 0.53\*\*\* | -0.33\*\* | 0.34\*\* | -0.11 | 0.31\*\* | -0.12 | 0.01 | 0.24\* | -0.11 | -0.16 | -0.02 | -0.33\*\* | 3.52 | 0.30 |
| **9.HairCort** | -0.02 | -0.08 | 0.18 | -0.16 | 0.03 | 0.18 | -0.06 | 0.26\* |  | -0.01 | 0.21 | -0.10 | 0.13 | 0.12 | 0.15 | -0.08 | 0.07 | 0.28\* | -0.09 | -0.02 | -0.05 | 0.00 | 1.31 | 0.73 |
| **10.EcoHard** | 0.07 | 0.14 | 0.37\*\* | -0.02 | 0.15 | 0.38\*\* | 0.17 | 0.40\*\*\* | 0.31\* |  | 0.57\*\*\* | -0.73\*\*\* | 0.59\*\*\* | -0.10 | 0.27\* | 0.02 | -0.06 | 0.11 | -0.21 | -0.17 | 0.03 | -0.06 | 0.06 | 2.95 |
| **11.ChrStrs** | -0.02 | -0.02 | 0.37\*\* | 0.13 | -0.05 | 0.35\* | 0.03 | 0.36\*\* | 0.14 | 0.41\*\*\* |  | -0.58\*\*\* | 0.62\*\*\* | -0.08 | 0.38\*\*\* | 0.00 | -0.11 | 0.37\*\*\* | -0.18 | -0.32\*\* | 0.01 | -0.20 | 2.36 | 0.42 |
| **12.FamRsrc** | -0.05 | 0.06 | -0.35\*\* | 0.20 | -0.11 | -0.53\*\*\* | -0.13 | -0.32\*\* | -0.28\* | -0.64\*\*\* | -0.47\*\*\* |  | -0.73\*\*\* | 0.11 | -0.24\* | 0.01 | -0.09 | -0.32\*\* | 0.20 | 0.17 | -0.18 | 0.22\* | 122.23 | 20.90 |
| **13.DailyStr** | 0.11 | 0.04 | 0.39\*\* | 0.02 | -0.03 | 0.22 | 0.32\*\* | 0.31\*\* | 0.16 | 0.49\*\*\* | 0.38\*\* | -0.48\*\*\* |  | 0.04 | 0.45\*\*\* | -0.04 | 0.10 | 0.48\*\*\* | -0.10 | -0.41\*\*\* | 0.06 | -0.26\* | 11.32 | 9.88 |
| **14.AffctInt** | 0.10 | 0.24\* | 0.12 | -0.02 | 0.30\* | 0.14 | 0.18 | 0.11 | 0.11 | 0.09 | -0.01 | -0.10 | 0.17 |  | 0.24\* | 0.02 | -0.05 | 0.05 | 0.02 | -0.03 | -0.04 | 0.00 | 3.91 | 0.51 |
| **15.Impulsive** | 0.01 | 0.17 | 0.14 | -0.09 | 0.13 | 0.56\*\*\* | 0.37\*\* | 0.29\* | 0.05 | 0.11 | 0.26\* | -0.35\*\* | 0.20 | 0.34\*\* |  | 0.06 | -0.04 | 0.55\*\*\* | -0.34\*\* | -0.46\*\*\* | 0.01 | -0.16 | 2.12 | 0.67 |
| **16.EDAcry** | 0.01 | 0.30\* | 0.21 | 0.41\*\*\* | 0.06 | -0.06 | 0.13 | -0.09 | -0.04 | -0.09 | -0.13 | 0.07 | 0.11 | 0.17 | 0.01 |  | -0.05 | 0.00 | 0.12 | -0.08 | 0.04 | -0.06 | 0.85 | 1.58 |
| **17.RSAcry** | 0.08 | 0.09 | 0.07 | 0.11 | 0.05 | -0.03 | -0.06 | -0.02 | -0.08 | -0.05 | 0.09 | -0.01 | 0.11 | -0.03 | -0.02 | 0.20 |  | 0.26\* | 0.13 | 0.08 | 0.21 | 0.01 | -0.54 | 0.83 |
| **18.DERSstrtgy** | -0.03 | 0.02 | 0.30\* | -0.11 | 0.05 | 0.60\*\*\* | 0.39\*\*\* | 0.39\*\*\* | 0.05 | 0.31\*\* | 0.28\* | -0.33\*\* | 0.50\*\*\* | 0.28\* | 0.71\*\*\* | 0.06 | -0.05 |  | -0.24\* | -0.59\*\*\* | -0.08 | -0.39\*\*\* | 16.63 | 7.81 |
| **19.bslnRSA** | -0.62\*\*\* | 0.03 | -0.11 | -0.04 | -0.56\*\*\* | -0.22 | -0.09 | -0.15 | 0.10 | -0.04 | -0.16 | 0.09 | -0.02 | -0.10 | -0.18 | 0.00 | 0.01 | -0.07 |  | 0.25\* | -0.03 | -0.07 | 5.24 | 1.01 |
| **20.Mindful** | -0.04 | -0.15 | -0.40\*\* | 0.02 | -0.10 | -0.46\*\*\* | -0.37\*\* | -0.32\*\* | -0.04 | -0.26\* | -0.25\* | 0.28\* | -0.45\*\*\* | -0.29\* | -0.61\*\*\* | 0.04 | 0.08 | -0.73\*\*\* | 0.07 |  | -0.24\* | 0.22\* | 4.10 | 0.85 |
| **21.NNNS arou** | -0.16 | -0.05 | -0.28\* | -0.04 | -0.05 | -0.09 | -0.19 | -0.05 | -0.10 | -0.02 | 0.08 | 0.10 | -0.17 | -0.08 | -0.10 | -0.20 | 0.05 | -0.18 | 0.21 | 0.24\* |  | -0.01 | 0.03 | 0.81 |
| **22.NNNS att** | 0.07 | 0.17 | 0.02 | 0.02 | 0.02 | -0.03 | 0.27\* | -0.05 | -0.05 | -0.10 | -0.07 | 0.13 | 0.09 | 0.21 | 0.11 | -0.08 | 0.05 | 0.10 | -0.15 | -0.09 | -0.26\* |  | 0.04 | 0.95 |
| ***M*** | 0.20 | 4.73 | 2.87 | 3.39 | -0.06 | 39.98 | 19.94 | 3.70 | 1.31 | -0.18 | 2.37 | 120.78 | 13.81 | 3.83 | 2.19 | 1.33 | -0.51 | 18.02 | 5.28 | 4.01 | -0.03 | -0.01 |  |  |
| ***SD*** | 0.83 | 1.93 | 1.90 | 1.85 | 0.73 | 13.60 | 5.21 | 0.38 | 0.68 | 2.44 | 0.47 | 19.56 | 10.51 | 0.48 | 0.62 | 1.79 | 0.74 | 7.19 | 1.27 | 0.78 | 0.77 | 0.92 |  |  |

﻿*Note.* Figures for boy infants are below the diagonal; figures for girl infants are above the diagonal. RSAspeech = RSA reactivity to the speech task; EDAspeech = EDA reactivity to the speech task; EpiStrs = Number of episodic stress experience during pregnancy; EDAprep = EDA reactivity to preparation; RSAprep = RSA reactivity to preparation; StateAnx = State anxiety; PrgnAnx = Pregnancy-related anxiety; ChildTrauma = childhood traumatic experience; HairCort = Hair cortisol; EcoHard = Economic hardship; ChrStrs = Chronic stress experience; FamRsrc = Family Resources; DailyStr = Day-to-day stress; AffctInt = Affect intensity; Impulsive = impulsiveness; EDAcry = EDA reactivity to baby’s cry; RSAcry = RSA reactivity to babies’ cry; DERSstrtgy = difficulties in accessing and employing emotion regulation strategies; bslnRSA = Baseline RSA; Mindful = Mindfulness; NNNS arou = Arousal score in NNNS test; NNNS att = Attention score in NNNS test

\* *p* < .05, \*\* *p* < .01, \*\*\* *p* < .001

*Figure S1.* ﻿Multigroup path models that constrained the paths to be equal across males and females. The role of Acute Threat (*S1a*), Potential Threat (*S1b*), Sustained Threat (*S1c*), Arousal (*S1d*), and Regulatory (*S1e*) RDoCs domains in predicting newborn’s neurobehavioral outcomes were examined.

Diagram

Description automatically generated

*Note.* RSAspeech = RSA reactivity to the speech task; EDAspeech = EDA reactivity to the speech task; EpiStrs = Number of episodic stress experience during pregnancy; EDAprep = EDA reactivity to preparation; RSAprep = RSA reactivity to preparation; StateAnx = State anxiety; PrgnAnx = Pregnancy-related anxiety; ChildTrauma = childhood traumatic experience; HairCort = Hair cortisol; EcoHard = Economic hardship; ChrStrs = Chronic stress experience; FamRsrc = Family Resources; DailyStr = Day-to-day stress; AffctInt = Affect intensity; Impulsive = impulsiveness; EDAcry = EDA reactivity to baby’s cry; RSAcry = RSA reactivity to babies’ cry; DERSstrtgy = difficulties in accessing and employing emotion regulation strategies; bslnRSA = Baseline RSA; Mindful = Mindfulness; NNNS arousal = Arousal score in NNNS test; NNNS attention = Attention score in NNNS test

\* *p* < .05, + *p* < .10;