

ORIGINAL RESEARCH ARTICLE

Changes in core depressive symptoms over time in peripartum women: A network analysis

Supplementary File

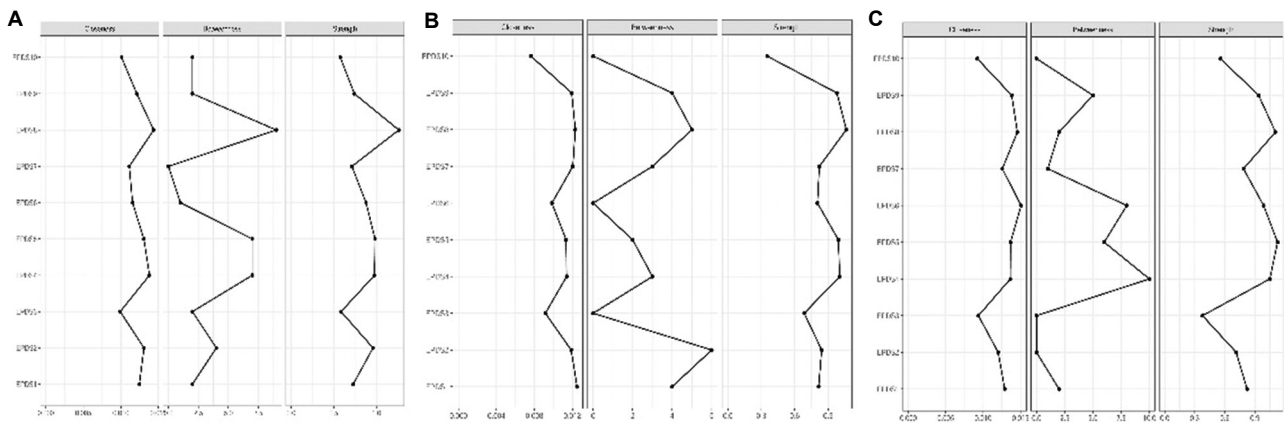


Figure S1. The centrality of symptom networks in the second-trimester (A), third-trimester (B), and postpartum (C), respectively
Abbreviation: EPDS: Edinburgh postnatal depression scale.

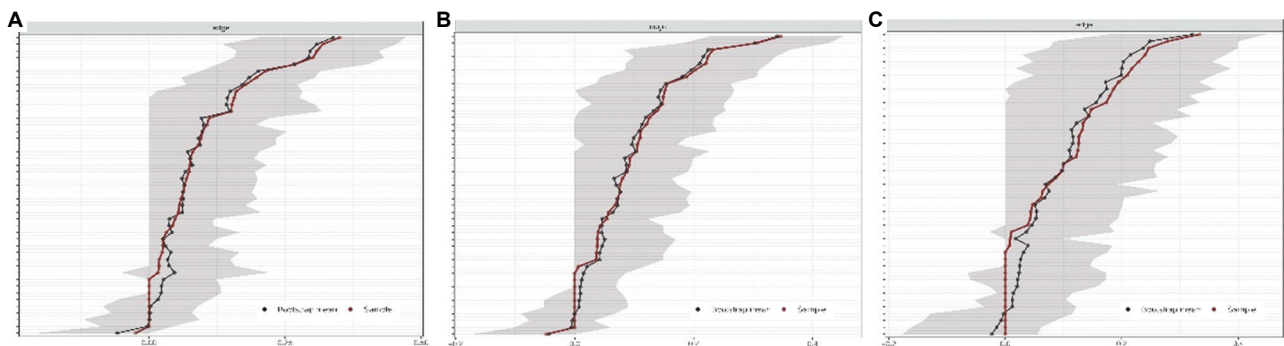


Figure S2. Accuracy of edge-weight parameters and their bootstrapped confidence intervals (CI) for second-trimester (A), third-trimester (B), and postpartum (C), respectively. The black lines denote the 95% CI of the bootstrapped sample (gray areas). The red lines represent the real sample values. These results suggested samples in three-time points were similar to the population

Table S1. Participants' demographic characteristics and scale total scores

| | Second-trimester (n=161) | Third-trimester (n=248) | Postpartum (n=110) | F/ χ^2 | P-value |
|-------------------|--------------------------|-------------------------|--------------------|-------------|---------|
| Age | 30.04±3.96 | 29.55±3.92 | 30.55±5.76 | 2.089 | 0.125 |
| Depression rate | 27.33 | 29.44 | 45.45 | 11.474 | 0.003 |
| EPDS total scores | 6.88±5.40* | 7.04±5.11* | 8.92±6.08 | 5.624 | 0.004 |
| EPDS-depression | 3.70±3.64* | 3.67±3.56* | 4.97±4.19 | 5.465 | 0.004 |
| EPDS-anxiety | 1.27±0.45* | 1.29±0.46 | 1.45±0.50 | 4.105 | 0.017 |
| EPDS1 | 0.26±0.60* | 0.29±0.54* | 0.49±0.69 | 5.664 | 0.004 |
| EPDS2 | 0.40±0.66 | 0.29±0.53* | 0.50±0.66 | 5.127 | 0.006 |
| EPDS3 | 0.93±0.95* | 1.05±0.98* | 1.39±1.06 | 7.359 | 0.001 |
| EPDS4 | 1.39±0.87* | 1.40±0.83* | 1.64±0.85 | 3.651 | 0.027 |
| EPDS5 | 0.86±0.86 | 0.92±0.84 | 0.92±0.93 | 0.312 | 0.732 |
| EPDS6 | 0.86±0.87* | 0.77±0.77* | 1.13±0.92 | 6.827 | 0.001 |
| EPDS7 | 0.71±0.83 | 0.81±0.88 | 0.81±0.94 | 0.622 | 0.537 |
| EPDS8 | 0.61±0.68* | 0.64±0.65 | 0.83±0.78 | 3.718 | 0.025 |
| EPDS9 | 0.73±0.86* | 0.78±0.87* | 1.03±0.92 | 4.161 | 0.016 |
| EPDS10 | 0.12±0.40 | 0.09±0.35 | 0.19±0.50 | 2.329 | 0.098 |

Note: *Compared to the postpartum group, $P < 0.05$ (Bonferroni correction)

Abbreviation: EPDS: Edinburgh postnatal depression scale.

Table S2. Estimated edge weights in the second trimester

| | EPDS1 | EPDS2 | EPDS3 | EPDS4 | EPDS5 | EPDS6 | EPDS7 | EPDS8 | EPDS9 | EPDS10 |
|--------|--------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| EPDS1 | 0 | | | | | | | | | |
| EPDS2 | 0.320 | 0 | | | | | | | | |
| EPDS3 | -0.025 | 0 | 0 | | | | | | | |
| EPDS4 | 0 | 0.110 | 0.032 | 0 | | | | | | |
| EPDS5 | 0.026 | 0.066 | 0.156 | 0.350 | 0 | | | | | |
| EPDS6 | 0.059 | 0.151 | 0.091 | 0.0751 | 0.268 | 0 | | | | |
| EPDS7 | 0.069 | 0 | 0 | 0.152 | 0.074 | 0.063 | 0 | | | |
| EPDS8 | 0.214 | 0.056 | 0.024 | 0.197 | 0.018 | 0.096 | 0.301 | 0 | | |
| EPDS9 | 0 | 0.098 | 0.080 | 0.0187 | 0 | 0.076 | 0.054 | 0.309 | 0 | |
| EPDS10 | 0.017 | 0.160 | 0.178 | 0.0431 | 0.026 | 0 | 0 | 0.048 | 0.106 | 0 |

Abbreviation: EPDS: Edinburgh postnatal depression scale.

Table S3. Estimated edge weights in the third-trimester

| | EPDS1 | EPDS2 | EPDS3 | EPDS4 | EPDS5 | EPDS6 | EPDS7 | EPDS8 | EPDS9 | EPDS10 |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| EPDS1 | 0 | | | | | | | | | |
| EPDS2 | 0.232 | 0 | | | | | | | | |
| EPDS3 | -0.048 | 0.080 | 0 | | | | | | | |
| EPDS4 | 0.110 | 0 | 0.224 | 0 | | | | | | |
| EPDS5 | 0 | 0.006 | 0.149 | 0.347 | 0 | | | | | |
| EPDS6 | 0.148 | 0.092 | 0.038 | 0.126 | 0.104 | 0 | | | | |
| EPDS7 | 0.221 | 0 | 0.036 | 0.039 | 0.138 | 0.111 | 0 | | | |
| EPDS8 | 0.057 | 0.076 | 0.038 | 0.121 | 0.156 | 0.067 | 0.188 | 0 | | |
| EPDS9 | 0 | 0.202 | 0.072 | 0.037 | 0.092 | 0.076 | 0.088 | 0.306 | 0 | |
| EPDS10 | 0 | 0.152 | 0 | 0 | 0 | 0.043 | 0 | 0.054 | 0.105 | 0 |

Abbreviation: EPDS: Edinburgh postnatal depression scale.

Table S4. Estimated edge weights in childbirth

| | EPDS1 | EPDS2 | EPDS3 | EPDS4 | EPDS5 | EPDS6 | EPDS7 | EPDS8 | EPDS9 | EPDS10 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| EPDS1 | 0 | | | | | | | | | |
| EPDS2 | 0.217 | 0 | | | | | | | | |
| EPDS3 | 0 | 0 | 0 | | | | | | | |
| EPDS4 | 0.044 | 0.100 | 0.240 | 0 | | | | | | |
| EPDS5 | 0 | 0.122 | 0.126 | 0.333 | 0 | | | | | |
| EPDS6 | 0.279 | 0 | 0 | 0.194 | 0.098 | 0 | | | | |
| EPDS7 | 0 | 0 | 0 | 0.039 | 0.064 | 0.229 | 0 | | | |
| EPDS8 | 0.062 | 0.148 | 0 | 0.043 | 0.209 | 0.180 | 0.143 | 0 | | |
| EPDS9 | 0.132 | 0 | 0.011 | 0.047 | 0.174 | 0.007 | 0.186 | 0.247 | 0 | |
| EPDS10 | 0.088 | 0.126 | 0 | 0.009 | 0 | 0 | 0.125 | 0.074 | 0.134 | 0 |

Abbreviation: EPDS: Edinburgh postnatal depression scale.