**Supplemental Materials**

**Subconstructs of the Edinburgh Postnatal Depression Scale in a Multi-Ethnic Inner-City Population in the U.S.**

Yueh-Hsiu Mathilda Chiu1,2, Perry E. Sheffield1,2, Hsiao-Hsien Leon Hsu1, Jonathan Goldstein2, Paul C. Curtin1, Rosalind J. Wright1,2,3

1 Department of Environmental Medicine and Public Health, Icahn School of Medicine at Mount Sinai, New York, NY, USA

2 Department of Pediatrics, Kravis Children’s Hospital, Icahn School of Medicine at Mount Sinai, New York, NY, USA

3 The Institute for Exposomics Research, Icahn School of Medicine at Mount Sinai, New York, NY, USA

***Description for Table S1:***

As described in the main manuscript, approximately half-way through recruitment of the ACCESS Study, supplemental funding was obtained to examine determinants of postpartum depression. Table S1 demonstrates that that there were no significant differences on key demographics when comparing 515 women who provided data on EPDS at 6 months postpartum (and were included in the analysis) to those 955 women who were originally recruited.

***Description for Table S2:***

In the Table 2 of the main manuscript, we reported the results from exploratory factor analysis (EFA) using ordinary least square (OLS) procedure with varimax (orthogonal) rotation. To ensure the robustness of our findings, we also conducted EFA using maximum likelihood (ML) procedure with promax (obique) rotation, which yielded essentially identical results as shown in the Supplemental Table S2 below.

***Description for Figure S1:***

Figure S1 demonstrates the scree plot, variance plot, and eigenvalue of the variables based on the participants' responses to the 9 items in the EPDS that were included in the analysis, in the overall sample as well as stratified by racial/ethnic groups.

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| **Table S1**. ACCESS Study participant characteristics | | |  |  | |
|  | **All enrolled subjects (n=955)** | |  | **Included in analyses**  **(subjects with EPDS data at 6 months postpartum; n=515)** | |
| ***Categorical Variables*** | n | % |  | n | % |
| Child's gender (n, %) |  |  |  |  |  |
| Female | 458 | 48.0 |  | 257 | 49.9 |
| Male | 495 | 51.8 |  | 258 | 50.1 |
| Missing | 2 | 0.2 |  | 0 | 0 |
| Race (n, %) |  |  |  |  |  |
| Hispanic | 494 | 51.7 |  | 275 | 53.4 |
| Black | 285 | 29.8 |  | 148 | 28.7 |
| White | 176 | 18.4 |  | 92 | 17.9 |
| Missing | 39 | 4.1 |  | 0 | 0 |
| Maternal education (n, %) |  |  |  |  |  |
| >12 yrs | 310 | 32.5 |  | 181 | 35.2 |
| ≤12 yrs | 579 | 60.6 |  | 334 | 64.9 |
| Missing | 66 | 6.9 |  | 0 | 0 |
| ***Continuous Variables*** |  |  |  |  |  |
| Maternal age at enrollment (years; mean, SD) | 27 | 5.9 |  | 26.6 | 5.7 |
| Child's birth weight (kg; median, IQR) | 3.3 | 3.0 - 3.7 |  | 3.4 | 3.1 - 3.7 |

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| **Table S2.** Factor loadings of Exploratory Factor Analysis (EFA) of EPDS for two- and three-factor models, stratified by race/ethnicity: sensitivity analysis a | | | | | | | |
|  | **EPDS items** | **Three-factor Model** | | |  | **Two-factor Model** | |
| **All (n=515)** | | **F1** | **F2** | **F3** |  | **F1** | **F2** |
| 1 | Able to laugh | 0.06 | -0.02 | **0.64** |  | 0.04 | **0.67** |
| 2 | Look forward | -0.04 | -0.01 | **1.02** |  | 0.02 | **0.94** |
| 3 | Self-blame | **0.52** | 0.08 | -0.02 |  | **0.58** | -0.04 |
| 4 | Worry | **0.99** | -0.17 | 0.00 |  | **0.74** | -0.04 |
| 5 | Scared | **0.71** | 0.06 | -0.08 |  | **0.73** | -0.11 |
| 6 | Overwhelmed | **0.51** | 0.20 | 0.03 |  | **0.69** | 0.00 |
| 7 | Difficult to sleep | 0.18 | **0.52** | 0.11 |  | **0.67** | 0.12 |
| 8 | Sad | 0.00 | **0.89** | -0.05 |  | **0.79** | 0.03 |
| 9 | Cry | -0.09 | **0.91** | 0.00 |  | **0.74** | 0.07 |
| **African American (n=148)** | | **F1** | **F2** | **F3** |  | **F1** | **F2** |
| 1 | Able to laugh | -0.14 | 0.08 | **1.04** |  | 0.07 | **0.72** |
| 2 | Look forward | 0.27 | -0.09 | **0.61** |  | 0.10 | **0.88** |
| 3 | Self-blame | 0.25 | **0.45** | 0.00 |  | **0.63** | -0.06 |
| 4 | Worry | -0.28 | **1.12** | 0.06 |  | **0.60** | -0.12 |
| 5 | Scared | 0.20 | **0.45** | -0.03 |  | **0.58** | -0.11 |
| 6 | Overwhelmed | **0.47** | 0.25 | -0.11 |  | **0.64** | -0.03 |
| 7 | Difficult to sleep | **0.67** | 0.01 | 0.09 |  | **0.68** | 0.16 |
| 8 | Sad | **0.93** | -0.10 | -0.05 |  | **0.78** | 0.06 |
| 9 | Cry | **1.03** | -0.20 | -0.05 |  | **0.76** | 0.11 |
| **Hispanic (n=275)** | | **F1** | **F2** | **F3** |  | **F1** | **F2** |
| 1 | Able to laugh | -0.07 | -0.09 | **0.79** |  | -0.02 | **0.70** |
| 2 | Look forward | -0.08 | -0.04 | **0.92** |  | 0.00 | **0.89** |
| 3 | Self-blame | **0.60** | -0.13 | 0.03 |  | **0.51** | -0.01 |
| 4 | Worry | **0.69** | 0.09 | 0.08 |  | **0.76** | 0.04 |
| 5 | Scared | **0.98** | -0.12 | -0.17 |  | **0.81** | -0.17 |
| 6 | Overwhelmed | **0.72** | 0.01 | 0.04 |  | **0.71** | 0.02 |
| 7 | Difficult to sleep | 0.31 | **0.32** | 0.15 |  | **0.62** | 0.12 |
| 8 | Sad | -0.06 | **1.09** | -0.09 |  | **0.79** | -0.01 |
| 9 | Cry | 0.24 | **0.51** | 0.09 |  | **0.72** | 0.07 |
| **White (n=92)** | | **F1** | **F2** | **F3** |  | **F1** | **F2** |
| 1 | Able to laugh | 0.07 | 0.03 | **0.61** |  | 0.04 | **0.69** |
| 2 | Look forward | -0.01 | -0.01 | **1.01** |  | 0.06 | **0.90** |
| 3 | Self-blame | 0.38 | **0.44** | -0.11 |  | **0.80** | -0.13 |
| 4 | Worry | -0.25 | **1.19** | 0.00 |  | **0.79** | 0.00 |
| 5 | Scared | 0.24 | **0.49** | 0.05 |  | **0.70** | 0.05 |
| 6 | Overwhelmed | **0.48** | 0.22 | 0.04 |  | **0.71** | 0.01 |
| 7 | Difficult to sleep | **0.62** | 0.13 | 0.07 |  | **0.74** | 0.07 |
| 8 | Sad | **0.92** | -0.06 | 0.03 |  | **0.77** | 0.11 |
| 9 | Cry | **1.07** | -0.27 | -0.03 |  | **0.71** | 0.08 |
| a Factors identified by maximum likelihood (ML) with oblique (promax) rotation. | | | | | | |  |

**Figure S1.** Scree plots and variance plots of EPDS items in ACCESS cohort, stratified by race/ethnicity

