Supplementary Online Content

Goetschius LG, Hein TC, McLanahan SS, et al. Association of childhood violence exposure with adolescent neural network density. *JAMA Netw Open*. 2020;3(9):e2017850. doi:10.1001/jamanetworkopen.2020.17850

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This supplementary material has been provided by the authors to give readers additional information about their work.
Supplemental Participant Information

Five hundred and six families from Detroit, Toledo, and Chicago area who had participated in the FFCWS were contacted. Of the 506 FFCWS families contacted, 237 families participated in SAND data collection, and 183 of those families had teens who were eligible and completed the neuroimaging tasks. 54 teens either were not eligible (i.e., braces, etc.) to complete the neuroimaging portion of the study ($N=28$) or did not complete the full protocol ($N=26$).

Families that agreed to participate in SAND data collection did not differ from families that refused or were unreachable on annual household income at the six waves of the FFCWS ($ps = .11 - .84$). However, nonparticipation was associated with mother reports of community violence exposure when adolescents were ages 3, 5, and 9 ($\chi^2 = 6.72, df = 1, p < .05, V = .12$). Sixty-three percent of all mothers from families that participated in SAND endorsed at least one form of community violence when adolescents were ages 3, 5, or 9 compared to 51.10% of families that did not participate. Within the Detroit, Toledo, and Chicago subsamples, mothers’ self-report of race/ethnicity at the time of the child’s birth did not differ between mothers who did and did not participate in SAND ($ps = .13-.49$). However, mothers’ self-report of race/ethnicity at the time of the child’s birth differed between the SAND sample and the larger FFCWS ($\chi^2 = 86.32, df = 3, p < .01, V = .13$). The majority of mothers who participated in SAND data collection identified as Black/African American (75%), and also included mothers identifying as White/Caucasian (16%), Hispanic (6%), and other (3%). In the FFCWS, 46% of mothers identified as Black/African, 21% identified as White/Caucasian, 29% identified as Hispanic, and 4% as other.
Of the 183 SAND teens with resting-state MRI data, three participants were excluded due to artifacts in the functional or structural MRI data, four participants had excessive motion (as defined by average relative framewise displacement greater than 0.5mm), and one person had signal dropout in the areas of the brain included in the present analysis. The sample included for the neuroimaging analyses did not differ from the full SAND sample (ps 0.670 - 0.997) (Supplemental Table 1). This information has also been reported in other work from our group1,2.

**MRI Acquisition**

**Structural MRI Acquisition.** T1-weighted gradient echo images were taken before the functional scans using the same field of view (FOV) and slices as the functional scans (TR = 12ms, TE = 5ms, TI = 500ms, flip angle = 15°, FOV = 26cm; slice thickness = 1.4mm; 256 x 192 matrix; 110 slices, voxel size = 1mm x 1mm x 1mm). These methods are described in previous research using this sample3.

**Resting State MRI Acquisition.** Slices were prescribed parallel to the AC-PC line (same locations as structural scans). Images were reconstructed into a 64x64 matrix (TR=2000 ms, TE=30 ms, flip angle=90°, FOV=22 cm, voxel size=3.44mm x 3.44mm x 3mm, bottom-up interleaved). Slices were acquired contiguously, which optimized the effectiveness of the movement post-processing algorithms. Images were reconstructed off-line using processing steps to remove distortions caused by magnetic field inhomogeneity and other sources of misalignment to the structural data, which yields excellent coverage of subcortical areas of interest. These methods are identical to those described in previous task-based fMRI research using this sample3.
Imaging Data Analysis

MRI Preprocessing. Anatomical images were homogeneity-corrected using SPM8, then skull-stripped (f=0.25) using the Brain Extraction Tool (BET) in FSL (version 5.0.7)^4^5. The functional imaging data then had the following preprocessing steps applied: removal of large temporal spikes in k-space data (> 2 std dev), field map correction and image reconstruction using custom code in MATLAB; noise from cardiac and respiratory motion were removed using RETROICOR, and slice-timing correction using SPM8 (Wellcome Department of Cognitive Neurology, London, UK; http://www.fil.ion.ucl.ac.uk). Additionally, the first 10 volumes of functional data were removed to ensure the stability of signal intensity. Lastly, the structural images were segmented into gray matter, white matter, and CSF using FSL’s FAST^6^.

Following these initial preprocessing steps, the resting state functional data underwent further preprocessing using FEAT (FMRI Expert Analysis Tool) Version 6.00, part of FSL (FMRIB's Software Library, www.fmrib.ox.ac.uk/fsl). Registration to high resolution structural and/or standard space images was carried out using FLIRT^7^8. The following pre-statistics processing was applied: motion correction using MCFLIRT^8^; non-brain removal for the functional images using BET^4^; spatial smoothing using a Gaussian kernel of FWHM 6.0mm; grand-mean intensity normalization of the entire 4D dataset by a single multiplicative factor. ICA-AROMA^9^ was used to remove motion-related artifacts in the data. Nuisance signal derived from the white matter and cerebrospinal fluid (CSF) were regressed out of the data and then the data was high-pass filtered to remove signal below 0.01Hz.
Violence Exposure and Social Deprivation Composite Scores

The procedure creating these composite scores were first utilized in previous work from our lab and has been used previously in research on cortisol reactivity in this sample. Data for these composite scores come from primary caregiver report on survey measures at 3, 5, 9 years.

**Childhood Exposure to Violence.** Included in this composite was the primary caregiver’s report of child physical and emotional abuse based on items from the Parent-Child Conflict Tactics Scale that have been used in previous research. Five items were used to assess physical abuse including, “hit him/her on the bottom with a hard object” and “shook him/her” and five items were used to assess emotional abuse including whether the parent/caregiver has “sworn or cursed at,” or “called him/her dumb or lazy or some other name like that.” Each item was rated on a 7-point Likert scale ranging from “never happened” to “more than 20 times.” The primary caregiver’s report of the child’s exposure to or victimization of violence in the neighborhood was also included in the composite. This was measured using the primary caregiver’s report of the child witnessing or being the victim of beating, attacks with a weapon, shootings, and killings (witness only) on a 5-point Likert scale ranging from “never” to “more than 10 times.” At age 9, the primary caregiver was not asked about whether the child had witnessed killings or it they had been the victim of a shooting, so these items were only included for ages 3 and 5 years. Lastly, the child’s mother reported on intimate partner violence (IPV) (physical-2 items, emotional-3 items, or sexual-1 item) in the home at each wave. Each item was rated on a 3-point Likert scale ranging from “never” to “often.” Physical IPV items included “he slapped or kicked you” and “he hit you with his fist or a dangerous object.” Emotional IPV items included “he tried to isolate you from family and friends,” and “he tried to
prevent you from going to work and/or school.” The sexual IPV was “he tried to make you have sex or do sexual things you didn’t want to do.” The child’s exposure to IPV against the mother was coded as missing for a given wave if the child did not live with their mother at least 50% of the time. We considered violence exposure to exist on a continuum in which high scores represent violence exposure and low scores represent safety.

**Childhood Exposure to Social Deprivation.** Included in this composite was the primary caregiver’s report of child physical and emotional neglect based on items from the CTS-PC\(^1\) that have been used in previous research\(^12,13\). Four items from the CTS-PC were used to assess physical neglect including whether the parent was ever “so drunk or high that you had a problem taking care of your child.” One item, whether the parent was “ever so caught up in your own problems that you were not able to show or tell your child that you loved him/her,” was used to assess emotional neglect. These items from the CTS-PC were reported on the same 7-point Likert scale as the items in the violence exposure composite. The primary caregiver’s report of social cohesion in the neighborhood was also included in this composite (reverse coded such that higher scores corresponded to lower cohesion). The items were selected based on previous research in the FFCWS linking neighborhood cohesion and adolescent mental health\(^15\) and were adapted from previous neighborhood research\(^16\). This included 4 items, such as “this is a close-knit neighborhood,” rated on a 5-point Likert scale ranging from “strongly agree” to “strongly disagree.” Lastly, the child’s mother reported on the level of intimate partner support for each wave using six items, such as “how frequently (the current romantic partner) expresses love and affection (for the mother),” that were rated on a 3-point Likert scale ranging from “never” to “often”\(^17\). This was also reverse coded such that high scores represent low support. Child exposure to the mother’s intimate partner support was coded as missing for a given wave if the
child did not live with their mother at least 50% of the time. We considered social deprivation to exist on a continuum in which high scores (e.g., the child experienced either high neglect or witnessed low social support for their mother or low neighborhood social cohesion) represent deprivation and low scores (e.g., the child experienced little neglect or witnessed high social support for their mother or high neighborhood social cohesion) represent social support.

**Composite Score Calculation.** To calculate composite scores, the Z scores for each of the childhood experiences (i.e., child abuse, exposure to intimate partner violence, community violence, child neglect, lack of romantic partner support, lack of neighborhood social cohesion) were summed for each of the childhood experiences within a dimension (i.e., violence exposure and social deprivation)\(^1\) and then divided by the number of childhood experiences within a dimension for each participant, thus maximizing the number of participants and the diversity of the sample by minimizing drop out due to missing data at any given wave. This procedure has been previously described\(^2\).

In an exploratory attempt to characterize the sample, we examined the abuse and neglect subscales of the Conflict Tactics Scale (CTS). We found that averaged across ages 3, 5, and 9 years, the focal children experienced greater than 3 of the 10 abuse categories (\(M=3.67, SD=1.61\), range: 0-10) and less than 1 of the 5 neglect categories (\(M=0.19, SD=0.37\), range: 0-4) in the CTS scale.
Covariates

With the exception of mean framewise displacement, all covariates have been previously described\textsuperscript{2,3,10}.

**Current Life Stress.** Current life stress was measured using the Adolescent Life Events Scale (adapted\textsuperscript{19} from\textsuperscript{20,21}). This scale assesses the experience of common adolescent stressful life events in the past year.

**Race.** Race was operationalized as a set of two dummy-coded variables based on three race categories reported by the teen: African American (Hispanic and Non-Hispanic), White/Caucasian, and Other. Other included Hispanic, Asian, multi-racial participants, Native American, and Unknown/Not Reported (Table 1). If teen report was not available ($N=12$), then parent report was used.

**Pubertal Development.** Self-report of pubertal status was assessed using child report of the Pubertal Development Scale\textsuperscript{22} that measures growth spurt in height, public hair, and skin change in boys and girls; facial hair growth and voice change in boys only; and breast development and menarche in girls only (Table 1). When adolescent report was not available ($N=8$), parent report was used. Pubertal development scores reported by parents were not significantly different from those reported by the adolescent ($t(9.04)=-0.74$, $p=0.48$).

**Maternal Covariates at Birth.** Maternal self-report of marital status at birth (yes/no) and education at birth (1 - less than high school, 2 - high school or equivalent, 3 - some college/technical school, 4 - college or graduate school) was assessed.

**Framewise Displacement.** Framewise displacement (FD) is a metric that evaluates motion in the scanner and is the average of rotation and translation parameter differences\textsuperscript{23}. FD was quantified using fsl\_motion\_outliers (FSL v.5.0.7).
Sensitivity Analyses

**Extreme Outliers.** Predictor variables (i.e., violence exposure and social deprivation) were checked for extreme outliers, which were considered to be individuals with a value less than Q1 - 2.2*Interquartile Range (IQR) or greater than Q3 + 2.2*IQR\(^2\). Four individuals were considered to be extreme outliers. Analyses were run with and without these participants, and inferences did not change. Thus, the participants were not excluded in order to retain as much data as possible.

**Protecting Against Model Overfitting.** To protect against model overfitting, the psi matrices for each individual were examined – these matrices summarize the variance that was not explained for each network node for each participant. Participants were flagged (\(N=26\) or 14.8%) if they had a psi value greater than 1. To ensure that these participants were not driving effects, all analyses were run with and without participants with high psi values, and inferences did not change. Thus, the participants were not excluded in order to retain as much data as possible.
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**eTable 1. Participant Demographics**

|                  | Included Sample (N=175) | Full Sample (N=237) | Statistically Different?           |
|------------------|-------------------------|---------------------|-----------------------------------|
| **Age**          | M = 15.88 yrs | SD = 0.53          | M = 15.88 yrs | SD = 0.54                      | No. t(379.27) = 0.10, p=0.918 |
| **Puberty**      | M = 3.25 | SD = 0.58          | M = 3.24 | SD = 0.59                      | No. t(377.67) = 0.30, p=0.770 |
| **Gender**       | F = 98 | M = 77            | F = 125 | M = 112                        | No. χ²(1) = 0.18, p = 0.670   |
| **Race**         | African American: 127  |  |  |  |  | No. χ²(2) = 0.40, p = 0.820   |
|                  | Caucasian: 26        |  |  |  |  |  |
|                  | Other: 22            |  |  |  |  |  |
| **Annual Income**| $4,999 or less: 22   |  |  |  |  |  |
|                  | $5,000 to $19,999: 29 |  |  |  |  |  |
|                  | $20,000 to $39,999: 50|  |  |  |  |  |
|                  | $40,000 to $69,999: 33|  |  |  |  |  |
|                  | $70,000 or more: 28  |  |  |  |  |  |
|                  | Not Report/Missing: 13|  |  |  |  |  |
|                  | $4,999 or less: 28   |  |  |  |  |  |
|                  | $5,000 to $19,999: 41 |  |  |  |  |  |
|                  | $20,000 to $39,999: 66 |  |  |  |  |  |
|                  | $40,000 to $69,999: 46|  |  |  |  |  |
|                  | $70,000 or more: 35  |  |  |  |  |  |
|                  | Not Report/Missing: 21|  |  |  |  |  |
|                  | No. χ²(5) = 0.34, p = 0.997 |  |  |  |  |  |
**Table 2**

*MNI coordinates for ROIs.*

| Region                               | MNI Coordinates | Network       |
|--------------------------------------|-----------------|---------------|
| **Left Hemisphere**                  |                 |               |
| Insula                               | -34 20 -4       | Salience      |
| Amygdala                             | -24 -6 -16      | Salience      |
| Dorsal Anterior Cingulate Cortex     | 0 46 6          | Salience      |
| Dorsolateral Prefrontal Cortex       | -46 12 34       | Salience      |
| Inferior Parietal Lobule             | -42 -52 48      | Default Mode  |
| Posterior Cingulate Cortex           | -4 52 48        | Default Mode  |
| Medial Temporal Gyrus                | -62 -26 -18     | Default Mode  |
| **Right Hemisphere**                 |                 |               |
| Insula                               | 36 20 -4        | Salience      |
| Amygdala                             | 24 -2 -16       | Salience      |
| Dorsal Anterior Cingulate Cortex     | 4 26 28         | Salience      |
| Dorsolateral Prefrontal Cortex       | 52 12 34        | Salience      |
| Inferior Parietal Lobule             | 46 -52 48       | Default Mode  |
| Posterior Cingulate Cortex           | 8 -52 28        | Default Mode  |
| Medial Temporal Gyrus                | 58 -16 20       | Default Mode  |

*Note:* ROIs were selected based on their inclusion in either the Salience or Default Mode networks according to the NeuroSynth database (search terms were “Salience Network” and “Default Mode,” respectively). Additionally, the MNI coordinates for all ROIs were preregistered with the Open Science Framework.
**eTable 3**

*Regression results for network density.*

| Predictor                  | $b$   | 95% CI [LL, UL] | $\beta$  | 95% CI [LL, UL] | $r$ | Fit |
|---------------------------|-------|-----------------|----------|-----------------|-----|-----|
| **Total Density**         |       |                 |          |                 |     |     |
| (Intercept)               | 47.20 | [38.30, 56.11]  |          |                 |     |     |
| Violence Exposure*        | -2.81 | [-5.01, -0.60]  | -0.23    | [-0.41, -0.05]  | -13 |     |
| Social Deprivation        | 1.51  | [-0.63, 3.65]   | 0.12     | [-0.05, 0.30]   | 06  |     |
| Motion 1*                 | 13.24 | [3.52, 22.96]   | 0.21     | [0.06, 0.37]    | 17  |     |
| Gender                    | -2.22 | [-4.65, 0.21]   | -0.18    | [-0.37, 0.02]   | -08 |     |
| Race 1²                   | 0.90  | [-2.17, 3.98]   | 0.06     | [-0.15, 0.28]   | -08 |     |
| Race 2²                   | 3.16  | [-0.61, 6.94]   | 0.18     | [-0.03, 0.39]   | 16  |     |
| Pubertal Development      | -1.37 | [-3.44, 0.69]   | -0.13    | [-0.32, 0.06]   | -03 |     |
| Current Life Stress³      | -0.08 | [-0.24, 0.09]   | -0.07    | [-0.22, 0.08]   | -07 |     |
| Maternal Education⁴      | -0.08 | [-1.10, 0.93]   | -0.01    | [-0.18, 0.15]   | 03  |     |
| Maternal Marital Status⁴ | -0.29 | [-2.80, 2.23]   | -0.02    | [-0.18, 0.15]   | -08 |     |

$R^2 = .122$

**Salience Network Density**

| Predictor                  | $b$   | 95% CI [LL, UL] | $\beta$  | 95% CI [LL, UL] | $r$ | Fit |
|---------------------------|-------|-----------------|----------|-----------------|-----|-----|
| (Intercept)               | 17.37 | [14.22, 20.52]  |          |                 |     |     |
| Violence Exposure*        | -1.01 | [-1.79, -0.23]  | -0.24    | [-0.42, -0.05]  | -12 |     |
| Social Deprivation        | 0.59  | [-0.17, 1.34]   | 0.14     | [-0.04, 0.32]   | 06  |     |
| Motion 1*                 | 4.97  | [1.54, 8.41]    | 0.23     | [0.07, 0.39]    | 20  |     |
| Gender                    | -0.33 | [-1.19, 0.53]   | -0.07    | [-0.27, 0.12]   | -01 |     |
| Race 1²                   | 0.24  | [-0.85, 1.33]   | 0.05     | [-0.17, 0.26]   | -06 |     |
| Race 2²                   | 0.78  | [-0.56, 2.11]   | 0.12     | [-0.09, 0.34]   | 12  |     |
| Pubertal Development      | -0.37 | [-1.10, 0.36]   | -0.10    | [-0.29, 0.09]   | -07 |     |
| Current Life Stress³      | -0.00 | [-0.06, 0.06]   | -0.01    | [-0.16, 0.14]   | -03 |     |
| Maternal Education⁴      | -0.05 | [-0.40, 0.31]   | -0.02    | [-0.18, 0.14]   | 02  |     |
| Maternal Marital Status⁴ | -0.31 | [-1.19, 0.58]   | -0.06    | [-0.22, 0.11]   | -09 |     |

$R^2 = .106$

**Density Between Salience & Default Mode Networks**

| Predictor                  | $b$   | 95% CI [LL, UL] | $\beta$  | 95% CI [LL, UL] | $r$ | Fit |
|---------------------------|-------|-----------------|----------|-----------------|-----|-----|
| (Intercept)               | 18.74 | [13.95, 23.53]  |          |                 |     |     |
| Violence Exposure*        | -1.33 | [-2.51, -0.14]  | -0.20    | [-0.39, -0.02]  | -09 |     |
| Social Deprivation        | 0.65  | [-0.50, 1.80]   | 0.10     | [-0.08, 0.28]   | 06  |     |
| Motion 1*                 | 8.55  | [3.33, 13.78]   | 0.26     | [0.10, 0.41]    | 22  |     |
| Gender                    | -1.07 | [-2.37, 0.24]   | -0.16    | [-0.35, 0.04]   | -04 |     |

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| Predictor                          | Coefficient | 95% CI          | Beta | 95% CI          |
|-----------------------------------|-------------|-----------------|------|-----------------|
| Race 1<sup>2</sup>                | 0.28        | [-1.37, 1.94]   | 0.04 | [-0.18, 0.25]   | -0.07 |
| Race 2<sup>2</sup>                | 1.47        | [-0.56, 3.51]   | 0.15 | [-0.06, 0.37]   | 0.14  |
| Pubertal Development              | -0.79       | [-1.90, 0.33]   | -0.13| [-0.32, 0.06]   | 0.07  |
| Current Life Stress<sup>3</sup>   | -0.05       | [-0.14, 0.04]   | -0.08| [-0.23, 0.07]   | -0.09 |
| Maternal Education<sup>4</sup>    | -0.01       | [-0.56, 0.54]   | -0.00| [-0.17, 0.16]   | 0.01  |
| Maternal Marital Status<sup>4</sup> | 0.40      | [-0.95, 1.75]   | 0.05 | [-0.12, 0.21]   | -0.01 |

**Default Mode Network Density**

| Predictor                          | Coefficient | 95% CI          | Beta | 95% CI          |
|-----------------------------------|-------------|-----------------|------|-----------------|
| (Intercept)                       | 11.09       | [8.18, 14.01]   |      |                 |
| Violence Exposure                 | -0.47       | [-1.19, 0.25]   | -0.12| [-0.31, 0.06]   | -0.12 |
| Social Deprivation                | 0.27        | [-0.43, 0.97]   | 0.07 | [-0.11, 0.25]   | 0.01  |
| Motion<sup>1</sup>                | -0.29       | [-3.46, 2.89]   | -0.01| [-0.17, 0.15]   | -0.06 |
| Gender*                           | -0.82       | [-1.62, -0.03]  | -0.20| [-0.40, -0.01]  | -0.19 |
| Race 1<sup>2</sup>                | 0.38        | [-0.62, 1.39]   | 0.08 | [-0.14, 0.30]   | -0.07 |
| Race 2<sup>2</sup>                | 0.91        | [-0.32, 2.15]   | 0.16 | [-0.06, 0.38]   | 0.15  |
| Pubertal Development              | -0.22       | [-0.89, 0.46]   | -0.06| [-0.26, 0.13]   | 0.09  |
| Current Life Stress<sup>3</sup>   | -0.02       | [-0.08, 0.03]   | -0.06| [-0.22, 0.09]   | -0.05 |
| Maternal Education<sup>4</sup>    | -0.03       | [-0.36, 0.31]   | -0.01| [-0.18, 0.15]   | 0.05  |
| Maternal Marital Status<sup>4</sup> | -0.38   | [-1.20, 0.44]   | -0.08| [-0.25, 0.09]   | -0.13 |

R<sup>2</sup> = .122

95% CI [.00, .17]

Note. A significant b-weight indicates the beta-weight and semi-partial correlation are also significant. b represents unstandardized regression weights. beta indicates the standardized regression weights. r represents the zero-order correlation. LL and UL indicate the lower and upper limits of a confidence interval, respectively.

* indicates significant predictor of network density

1Motion is measured using mean relative framewise displacement

2Dummy coded variables represented 3 category race variable (African American, Caucasian, Other)

3Current life stress is measured using the Adolescent Life Events Scale

4Maternal variable at the child’s birth
Table 4

**Node degree for ROIs that were not significantly associated with violence exposure or social deprivation using the Bonferroni-corrected significance threshold.**

| Predictor                | $b$  | 95% CI [LL, UL] | beta   | 95% CI [LL, UL] | $r$  | Fit |
|--------------------------|------|-----------------|--------|-----------------|------|-----|
| **Left Amygdala Degree** |      |                 |        |                 |      |     |
| (Intercept)              | 2.87 | [2.55, 3.20]    |        |                 |      |     |
| Violence Exposure        | -0.60| [-1.13, -0.07]  | -0.19  | [-0.36, -0.02]  | -0.04|     |
| Social Deprivation       | 0.30 | [-0.23, 0.82]   | 0.09   | [-0.07, 0.26]   | 0.07 |     |
| Motion $^1$              | 6.04 | [3.69, 8.40]    | 0.37   | [0.23, 0.52]    | 0.34 |     |

$R^2 = .143$

95% CI [.05, .23]

| **Left Dorsal Anterior Cingulate Cortex Degree** |      |                 |        |                 |      |     |
| (Intercept)              | 6.47 | [6.15, 6.79]    |        |                 |      |     |
| Violence Exposure        | -0.35| [-0.87, 0.17]   | -0.12  | [-0.30, 0.06]   | -0.08|     |
| Social Deprivation       | 0.18 | [-0.34, 0.69]   | 0.06   | [-0.12, 0.24]   | 0.01 |     |
| Motion $^1$              | 0.61 | [-1.70, 2.92]   | 0.04   | [-0.11, 0.20]   | 0.02 |     |

$R^2 = .011$

95% CI [.00, .04]

| **Left Dorsolateral Prefrontal Cortex Degree** |      |                 |        |                 |      |     |
| (Intercept)              | 6.96 | [6.53, 7.40]    |        |                 |      |     |
| Violence Exposure        | -0.62| [-1.33, 0.08]   | -0.16  | [-0.34, 0.02]   | -0.12|     |
| Social Deprivation       | 0.34 | [-0.36, 1.04]   | 0.09   | [-0.09, 0.26]   | 0.00 |     |
| Motion $^1$              | -0.57| [-3.71, 2.56]   | -0.03  | [-0.18, 0.13]   | -0.05|     |

$R^2 = .020$

95% CI [.00, .04]

| **Left Anterior Insula Degree** |      |                 |        |                 |      |     |
| (Intercept)              | 6.02 | [5.76, 6.28]    |        |                 |      |     |
| Violence Exposure        | -0.50| [-0.93, -0.08]  | -0.21  | [-0.39, -0.03]  | -0.12|     |
| Social Deprivation       | 0.26 | [-0.17, 0.68]   | 0.11   | [-0.07, 0.28]   | 0.02 |     |
| Motion $^1$              | 1.38 | [-0.52, 3.27]   | 0.11   | [-0.04, 0.27]   | 0.08 |     |

$R^2 = .037$

95% CI [.00, .06]

| **Left Medial Temporal Gyrus Degree** |      |                 |        |                 |      |     |
| (Intercept)              | 6.03 | [5.62, 6.45]    |        |                 |      |     |
| Violence Exposure        | -0.55| [-1.21, 0.12]   | -0.15  | [-0.32, 0.03]   | -0.06|     |
| Social Deprivation       | 0.65 | [-0.01, 1.31]   | 0.17   | [-0.00, 0.35]   | 0.09 |     |
| Motion $^1$              | -0.68| [-3.65, 2.29]   | -0.04  | [-0.19, 0.12]   | -0.04|     |

$R^2 = .026$

95% CI [.00, .07]

| **Left Posterior Cingulate Cortex Degree** |      |                 |        |                 |      |     |
| (Intercept)              | 8.40 | [8.03, 8.76]    |        |                 |      |     |
|                         | Right Amygdala Degree (Intercept) | Right Dorsal Anterior Cingulate Cortex Degree (Intercept) | Right Dorsolateral Prefrontal Cortex Degree (Intercept) | Right Inferior Parietal Lobule Degree (Intercept) | Right Medial Temporal Gyrus Degree (Intercept) | Right Posterior Cingulate Cortex Degree (Intercept) |
|-------------------------|----------------------------------|----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------------------------|
| Violence Exposure       | 4.05 \([3.80, 4.29]\)            | -0.40 \([-0.81, 0.01]\) 0.00 \([-0.35, 0.00]\)              | 0.39 \([6.08, 6.68]\)                                  | -0.49 \([-0.97, 0.00]\) -0.18 \([-0.36, 0.00]\) | 0.14 \([-0.30, 0.57]\) 0.05 \([-0.12, 0.22]\) | 3.99 \([3.67, 4.30]\)                                |
| Social Deprivation      |                                  | -0.12 \([-0.28, 0.53]\) 0.05 \([-0.12, 0.23]\)              | 0.40 \([-0.08, 0.88]\) 0.15 \([-0.03, 0.32]\)          | 0.06 \([-0.42, 0.54]\) 0.02 \([-0.15, 0.20]\) | 0.26 \([-0.17, 0.69]\) 0.10 \([-0.07, 0.27]\) | -0.25 \([-0.76, 0.25]\) -0.09 \([-0.26, 0.09]\) |
| Motion \(^1\)           | 5.38 \([3.60, 7.16]\) 0.43 \([0.29, 0.57]\)              | 3.01 \([1.19, 4.83]\) 0.25 \([0.10, 0.40]\)              | 1.71 \([-0.45, 3.86]\) 0.12 \([-0.03, 0.28]\)         | 0.43 \([-1.74, 2.59]\) 0.03 \([-0.12, 0.19]\) | 3.46 \([1.53, 5.39]\) 0.27 \([0.12, 0.41]\) | 1.88 \([-0.39, 4.15]\) 0.13 \([-0.03, 0.28]\) |

\(R^2 = .024\)  
95% CI [.00, .07]

\(R^2 = .188\)  
95% CI [.08, .28]

\(R^2 = .069\)  
95% CI [.00, .14]

\(R^2 = .026\)  
95% CI [.00, .09]

\(R^2 = .11\)  
95% CI [.03, .19]

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Note. A significant b-weight indicates the beta-weight and semi-partial correlation are also significant. b represents unstandardized regression weights. beta indicates the standardized regression weights. r represents the zero-order correlation. LL and UL indicate the lower and upper limits of a confidence interval, respectively.
*Significant at a Bonferroni-corrected threshold of p = 0.004 (p=0.05/14 tests)
^1Motion is measured using mean relative framewise displacement
Table 5
Node density adjusted for covariates

| Predictor              | b    | 95% CI [LL, UL] | beta  | 95% CI [LL, UL] | r   | Fit |
|------------------------|------|-----------------|-------|-----------------|-----|-----|
| (Intercept)            | 9.14 | [6.79, 11.49]   | -0.23 | [-0.42, -0.05]  | -.17|     |
| **Left Inferior Parietal Lobule** |       |                 |       |                 |     |     |
| Violence Exposure*     | -0.75| [-1.33, -0.17]  | -0.23 | [-0.42, -0.05]  | -.17|     |
| Social Deprivation     | 0.36 | [-0.20, 0.93]   | 0.11  | [-0.06, 0.29]   | .03 |     |
| Motion                 | 1.27 | [-1.29, 3.84]   | 0.08  | [-0.08, 0.24]   | .03 |     |
| Gender                 | -0.04| [-0.09, 0.00]   | -0.15 | [-0.30, 0.01]   | -.13|     |
| Race 1^2               | -0.37| [-0.91, 0.18]   | -0.13 | [-0.32, 0.06]   | -.09|     |
| Race 2^2               | -0.71| [-1.36, -0.07]  | -0.21 | [-0.41, -0.02]  | .17 |     |
| Pubertal Development   | 0.30 | [-0.51, 1.11]   | 0.08  | [-0.14, 0.29]   | .03 |     |
| Current Life Stress^3  | 0.85 | [-0.15, 1.84]   | 0.18  | [-0.03, 0.39]   | -.14|     |
| Maternal Education^4   | -0.09| [-0.75, 0.57]   | -0.02 | [-0.19, 0.14]   | -.07|     |
| Maternal Marital Status^4 | -0.09| [-0.75, 0.57]   | -0.02 | [-0.19, 0.14]   | -.07|     |

R^2 = .117

95% CI [.00,.16]

**Right Insula**

| Predictor              | b    | 95% CI [LL, UL] | beta  | 95% CI [LL, UL] | r   | Fit |
|------------------------|------|-----------------|-------|-----------------|-----|-----|
| (Intercept)            | 8.44 | [6.83, 10.06]   | -0.28 | [-0.46, -0.11]  | -.17|     |
| **Right Insula**       |       |                 |       |                 |     |     |
| Violence Exposure*     | -0.64| [-1.04, -0.24]  | -0.28 | [-0.46, -0.11]  | -.17|     |
| Social Deprivation     | 0.4  | [0.06, 0.84]    | 0.20  | [0.03, 0.37]    | .06 |     |
| Motion                 | 1.28 | [-0.48, 3.04]   | 0.11  | [-0.04, 0.27]   | .08 |     |
| Gender                 | -0.00| [-0.03, 0.03]   | -0.02 | [-0.17, 0.13]   | -.05|     |
| Race 1^2               | -0.36| [-0.73, 0.02]   | -0.18 | [-0.36, 0.01]   | -.10|     |
| Race 2^2               | -0.26| [-0.70, 0.19]   | -0.11 | [-0.30, 0.08]   | -.01|     |
| Pubertal Development   | 0.01 | [-0.54, 0.57]   | 0.01  | [-0.21, 0.22]   | -.14|     |
| Current Life Stress^3  | 0.58 | [-0.11, 1.27]   | 0.18  | [-0.03, 0.39]   | .21 |     |
| Maternal Education^4   | 0.17 | [-0.01, 0.36]   | 0.15  | [-0.01, 0.31]   | .17 |     |
| Maternal Marital Status^4 | 0.15 | [-0.30, 0.61]   | 0.05  | [-0.11, 0.22]   | -.07|     |

R^2 = .149

95% CI [.02,.20]

**Note.** A significant b-weight indicates the beta-weight and semi-partial correlation are also significant. b represents unstandardized regression weights. beta indicates the standardized regression weights. r represents the zero-order correlation. LL and UL indicate the lower and upper limits of a confidence interval, respectively.

*Significant predictor of node degree adjusting for covariates.

1Motion is measured using mean relative framewise displacement

2Dummy coded variables represented 3 category race variable (African American, Caucasian, Other)

3Current life stress is measured using the Adolescent Life Events Scale

4Maternal variable at the child’s birth

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| Predictor               | $b$  | $SE$ | Odds Ratio | 95% CI          |
|-------------------------|------|------|------------|-----------------|
| (Intercept)             | -0.20| 1.82 | 0.82       | [0.02, 32.70]   |
| Violence Exposure       | 0.93 | 0.54 | 2.54       | [0.92, 7.87]    |
| Social Deprivation      | -0.38| 0.47 | 0.68       | [0.27, 1.77]    |
| **Motion**              | 7.32 | 3.54 | **1516.93**| **[3.58, 4284250.00]** |
| Gender                  | 0.57 | 0.50 | 1.77       | [0.67, 4.77]    |
| Race_1$^2$              | -0.58| 0.71 | 0.56       | [0.11, 2.02]    |
| Race_2$^2$              | -1.13| 0.80 | 0.32       | [0.06, 1.46]    |
| Pubertal Development    | 0.14 | 0.41 | 1.16       | [0.50, 2.59]    |
| Current Life Stress$^3$ | 0.05 | 0.04 | 1.06       | [0.98, 1.14]    |
| Maternal Education$^4$  | 0.07 | 0.20 | 1.07       | [0.72, 1.61]    |
| Maternal Marital Status$^4$ | 0.05 | 0.49 | 1.05       | [0.39, 2.72]    |

1Motion is measured using mean relative framewise displacement
2Dummy coded variables represented 3 category race variable (African American, Caucasian, Other)
3Current life stress is measured using the Adolescent Life Events Scale
4Maternal variable at the child’s birth
eFigure 1. Flowchart of the S-GIMME analytical steps

1. **Find Group-level Paths**
   - Run null uSEM model
     - Null model includes autoregressive paths
   - Open connection for everyone in the sample
     - Connections are estimated for everyone if meaningful for at least 75% of participants
   - Iteratively open connections until no more connections are meaningful for the group
   - Prune connections that are no longer meaningful for group
     - 19 group level paths were detected in this sample

2. **Determine if Data-Driven Subgroups Exist & Find Subgroup-level Paths**
   - Use community detection algorithm to examine if subgroups are present
     - 2 were found in this sample
   - Separately for each subgroup, iteratively open connections for everyone in the subgroup
     - Connections are estimated for everyone if meaningful for at least 50% of participants
   - Prune connections that are no longer meaningful for the subgroup
     - 8 connections were detected in one subgroup
     - 28 connections were detected in one subgroup

3. **Fit and Estimate Person-Specific Models**
   - Iteratively fit connections at the individual level
     - Connections are added until the model fits well based on standard fit indices
   - Run confirmatory model for each individual to get person-specific estimates for each detected connection in that individual

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**eFigure 2**: Individual connectivity maps. Red connections have positive beta weights, blue connections have negative beta weights. Solid connections are contemporaneous and dashed connections are lagged. V1: left amygdala, V2: left dorsal anterior cingulate cortex (dACC), V3: dorsolateral prefrontal cortex (dlPFC), V4: left insula, V5: left inferior parietal lobule (IPL), V6: left medial temporal gyrus (MTG), V7: left posterior cingulate cortex, V8: right amygdala, V9: right dACC, V10: right dlPFC, V11: right insula, V12: right IPL, V13: right MTG, V14: right PCC. Video also included separately.
eTable 7. Model fit for each participant. Connections were not added to individual models when 2 out of the 4 fit indices met the following thresholds: RMSEA ≤ 0.05; SRMR ≤ 0.05; CFI ≥ 0.95; NNFI ≥ 0.95.

|   | $\chi^2$ | df | npar | RMSEA | SRMR | NNFI | CFI |
|---|---------|----|------|--------|------|------|-----|
| 1 | 337.464 | 215| 219  | 0.0493 | 0.0498 | 0.9468 | 0.9698 |
| 2 | 460.4917| 232| 202  | 0.0649 | 0.0434 | 0.919 | 0.9503 |
| 3 | 442.6814| 227| 207  | 0.0637 | 0.0493 | 0.9176 | 0.9505 |
| 4 | 369.3483| 230| 204  | 0.0509 | 0.0497 | 0.9395 | 0.9632 |
| 5 | 356.2464| 224| 210  | 0.0502 | 0.0499 | 0.9424 | 0.9658 |
| 6 | 422.89  | 230| 204  | 0.0599 | 0.0472 | 0.9367 | 0.9615 |
| 7 | 400.1407| 228| 206  | 0.0568 | 0.0469 | 0.9183 | 0.9507 |
| 8 | 395.4893| 229| 205  | 0.0557 | 0.0493 | 0.9342 | 0.9602 |
| 9 | 472.9349| 228| 206  | 0.0678 | 0.0485 | 0.9261 | 0.9554 |
| 10| 349.8288| 222| 212  | 0.0496 | 0.0511 | 0.9436 | 0.9668 |
| 11| 446.6057| 229| 205  | 0.0637 | 0.0492 | 0.9183 | 0.9505 |
| 12| 505.731 | 218| 216  | 0.0751 | 0.0491 | 0.9157 | 0.9514 |
| 13| 417.9443| 221| 213  | 0.0617 | 0.0485 | 0.9263 | 0.9569 |
| 14| 451.117 | 227| 207  | 0.065  | 0.049  | 0.9287 | 0.9572 |
| 15| 405.1967| 229| 205  | 0.0573 | 0.0486 | 0.9292 | 0.9571 |
| 16| 377.3698| 228| 206  | 0.0529 | 0.0486 | 0.952  | 0.971  |
| 17| 375.7425| 200| 234  | 0.0613 | 0.0485 | 0.9211 | 0.9583 |
| 18| 418.1664| 219| 215  | 0.0623 | 0.0482 | 0.9139 | 0.9501 |
| 19| 362.0274| 218| 216  | 0.0531 | 0.0485 | 0.9154 | 0.9512 |
| 20| 489.3867| 233| 201  | 0.0686 | 0.0484 | 0.9203 | 0.9509 |
| 21| 355.5109| 230| 204  | 0.0483 | 0.0547 | 0.9471 | 0.9678 |
| 22| 381.252 | 231| 203  | 0.0527 | 0.0492 | 0.9311 | 0.9579 |
| 23| 359.1018| 209| 225  | 0.0554 | 0.0499 | 0.9229 | 0.9574 |
| 24| 366.8721| 232| 202  | 0.0498 | 0.0526 | 0.9266 | 0.9549 |
| 25| 422.4284| 226| 208  | 0.0609 | 0.0466 | 0.9175 | 0.9507 |
| 26| 482.5072| 234| 200  | 0.0674 | 0.0461 | 0.9201 | 0.9505 |
| 27| 357.8082| 220| 214  | 0.0517 | 0.0498 | 0.935  | 0.9621 |
|   |       |       |       |      |      |      |      |
|---|-------|-------|-------|------|------|------|------|
| 28| 441.1115 | 227   | 207   | 0.0635 | 0.0455 | 0.9184 | 0.951 |
| 29| 415.5675 | 213   | 221   | 0.0638 | 0.0496 | 0.9249 | 0.9577 |
| 30| 435.3762 | 225   | 209   | 0.0632 | 0.0469 | 0.9164 | 0.9502 |
| 31| 459.8657 | 216   | 218   | 0.0695 | 0.049  | 0.9279 | 0.9588 |
| 32| 404.2475 | 215   | 219   | 0.0613 | 0.0476 | 0.9241 | 0.9569 |
| 33| 363.5178 | 222   | 212   | 0.0522 | 0.0446 | 0.9168 | 0.9511 |
| 34| 394.4465 | 217   | 217   | 0.0591 | 0.0498 | 0.9381 | 0.9645 |
| 35| 512.738 | 221   | 213   | 0.0751 | 0.0461 | 0.9164 | 0.9511 |
| 36| 419.0826 | 227   | 207   | 0.0601 | 0.0496 | 0.9189 | 0.9513 |
| 37| 391.933 | 225   | 209   | 0.0563 | 0.0438 | 0.9204 | 0.9526 |
| 38| 355.2865 | 226   | 208   | 0.0494 | 0.053  | 0.9259 | 0.9557 |
| 39| 431.6301 | 221   | 213   | 0.0638 | 0.0487 | 0.9246 | 0.9559 |
| 40| 363.5577 | 232   | 202   | 0.0492 | 0.0502 | 0.9342 | 0.9596 |
| 41| 418.9789 | 216   | 218   | 0.0634 | 0.0494 | 0.9146 | 0.9512 |
| 42| 370.4016 | 221   | 213   | 0.0537 | 0.0496 | 0.9307 | 0.9595 |
| 43| 357.6225 | 219   | 215   | 0.052  | 0.0497 | 0.9424 | 0.9666 |
| 44| 364.269 | 218   | 216   | 0.0535 | 0.05  | 0.9169 | 0.9521 |
| 45| 404.6379 | 213   | 221   | 0.062  | 0.048  | 0.9374 | 0.9647 |
| 46| 481.5645 | 215   | 219   | 0.0728 | 0.0443 | 0.9148 | 0.9515 |
| 47| 360.3157 | 225   | 209   | 0.0507 | 0.0493 | 0.9179 | 0.9511 |
| 48| 435.7415 | 217   | 217   | 0.0656 | 0.045  | 0.9164 | 0.952 |
| 49| 387.1817 | 225   | 209   | 0.0555 | 0.0459 | 0.9177 | 0.951 |
| 50| 428.6833 | 229   | 205   | 0.061  | 0.0489 | 0.9352 | 0.9608 |
| 51| 414.8962 | 233   | 201   | 0.0578 | 0.0424 | 0.9191 | 0.9501 |
| 52| 395.9013 | 212   | 222   | 0.0609 | 0.0447 | 0.9125 | 0.9509 |
| 53| 532.6246 | 221   | 213   | 0.0776 | 0.047  | 0.9148 | 0.9502 |
| 54| 416.5936 | 221   | 213   | 0.0615 | 0.0434 | 0.9152 | 0.9504 |
| 55| 434.5957 | 208   | 226   | 0.0682 | 0.0497 | 0.9131 | 0.9522 |
| 56| 418.6393 | 236   | 198   | 0.0575 | 0.0485 | 0.9256 | 0.9535 |
| 57| 351.4741 | 222   | 212   | 0.0499 | 0.0499 | 0.9385 | 0.9639 |
| 58| 398.2812 | 236   | 198   | 0.0542 | 0.0476 | 0.9511 | 0.9695 |
| 59| 355.4745 | 228   | 206   | 0.0489 | 0.0483 | 0.922  | 0.953 |

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|   |       |     |     |     |     |     |
|---|-------|-----|-----|-----|-----|-----|
| 60| 471.3257 | 231 | 203 | 0.0667 | 0.0487 | 0.9262 | 0.9549 |
| 61| 343.2778 | 206 | 228 | 0.0534 | 0.0495 | 0.9509 | 0.9732 |
| 62| 431.6664 | 210 | 224 | 0.0672 | 0.0408 | 0.915 | 0.9528 |
| 63| 432.934 | 225 | 209 | 0.0628 | 0.0465 | 0.9186 | 0.9516 |
| 64| 341.8362 | 219 | 215 | 0.049 | 0.0512 | 0.9526 | 0.9726 |
| 65| 395.5717 | 226 | 208 | 0.0566 | 0.0472 | 0.9167 | 0.9502 |
| 66| 445.6803 | 225 | 209 | 0.0647 | 0.05 | 0.9164 | 0.9502 |
| 67| 481.0292 | 219 | 215 | 0.0715 | 0.0441 | 0.9148 | 0.9506 |
| 68| 388.5093 | 216 | 218 | 0.0549 | 0.0491 | 0.9404 | 0.9659 |
| 69| 368.3488 | 216 | 218 | 0.0597 | 0.0478 | 0.9274 | 0.9602 |
| 70| 372.7023 | 236 | 198 | 0.0498 | 0.0488 | 0.9441 | 0.9651 |
| 71| 435.3817 | 223 | 211 | 0.0638 | 0.0498 | 0.9187 | 0.952 |
| 72| 368.3488 | 216 | 218 | 0.0549 | 0.0491 | 0.9404 | 0.9659 |
| 73| 379.8688 | 207 | 227 | 0.0597 | 0.0478 | 0.9274 | 0.9602 |
| 74| 460.2895 | 214 | 220 | 0.0701 | 0.0496 | 0.9288 | 0.9597 |
| 75| 524.4858 | 217 | 217 | 0.0778 | 0.0436 | 0.9139 | 0.9506 |
| 76| 356.5818 | 230 | 204 | 0.0485 | 0.057 | 0.9345 | 0.9602 |
| 77| 428.9118 | 232 | 202 | 0.0602 | 0.0498 | 0.9278 | 0.9557 |
| 78| 424.6102 | 226 | 208 | 0.0613 | 0.0497 | 0.9229 | 0.9539 |
| 79| 404.0907 | 216 | 218 | 0.061 | 0.0439 | 0.9171 | 0.9526 |
| 80| 408.21 | 214 | 220 | 0.0623 | 0.0496 | 0.9218 | 0.9557 |
| 81| 337.0235 | 216 | 218 | 0.0489 | 0.052 | 0.9491 | 0.9709 |
| 82| 416.4031 | 218 | 216 | 0.0624 | 0.0437 | 0.9179 | 0.9527 |
| 83| 473.7268 | 228 | 206 | 0.0679 | 0.0442 | 0.919 | 0.9511 |
| 84| 388.1109 | 233 | 201 | 0.0533 | 0.0494 | 0.9487 | 0.9684 |
| 85| 378.0401 | 221 | 213 | 0.0551 | 0.0492 | 0.9245 | 0.9559 |
| 86| 472.1856 | 218 | 216 | 0.0706 | 0.0499 | 0.9155 | 0.9512 |
| 87| 417.637 | 233 | 201 | 0.0582 | 0.0498 | 0.9384 | 0.962 |
| 88| 383.6733 | 230 | 204 | 0.0534 | 0.0481 | 0.9293 | 0.957 |
| 89| 397.4964 | 222 | 212 | 0.0581 | 0.0476 | 0.9174 | 0.9515 |
| 90| 358.8544 | 229 | 205 | 0.0492 | 0.0538 | 0.9407 | 0.9641 |

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|   |        |   |   |        |        |        |
|---|--------|---|---|--------|--------|--------|
| 92| 515.0297 | 237 | 197 | 0.0708 | 0.0479 | 0.9228 | 0.9516 |
| 93| 339.9077 | 222 | 212 | 0.0476 | 0.0624 | 0.9418 | 0.9658 |
| 94| 408.5504 | 209 | 225 | 0.0639 | 0.041  | 0.9114 | 0.951  |
| 95| 549.3469 | 226 | 208 | 0.0782 | 0.0464 | 0.9165 | 0.9501 |
| 96| 376.8911 | 225 | 209 | 0.0537 | 0.0492 | 0.9351 | 0.9614 |
| 97| 440.472  | 221 | 213 | 0.0651 | 0.0471 | 0.9172 | 0.9516 |
| 98| 347.1012 | 222 | 212 | 0.0491 | 0.0489 | 0.948  | 0.9695 |
| 99| 381.2555 | 224 | 210 | 0.0548 | 0.048  | 0.9167 | 0.9506 |
|100| 441.3668 | 230 | 204 | 0.0627 | 0.0499 | 0.925  | 0.9543 |
|101| 407.0288 | 221 | 213 | 0.06  | 0.0495 | 0.9222 | 0.9545 |
|102| 376.2155 | 216 | 218 | 0.0563 | 0.0464 | 0.9131 | 0.9503 |
|103| 366.2102 | 223 | 211 | 0.0524 | 0.0497 | 0.9416 | 0.9656 |
|104| 381.601  | 233 | 201 | 0.0522 | 0.0478 | 0.9242 | 0.9533 |
|105| 457.7367 | 235 | 199 | 0.0636 | 0.048  | 0.9206 | 0.9506 |
|106| 423.4817 | 214 | 220 | 0.0647 | 0.0492 | 0.9321 | 0.9616 |
|107| 433.4452 | 227 | 207 | 0.0623 | 0.0468 | 0.92  | 0.952  |
|108| 449.1592 | 228 | 206 | 0.0644 | 0.0496 | 0.9176 | 0.9503 |
|109| 477.1445 | 227 | 207 | 0.0686 | 0.0496 | 0.9192 | 0.9515 |
|110| 412.928  | 223 | 211 | 0.0603 | 0.0486 | 0.9183 | 0.9518 |
|111| 395.8876 | 234 | 200 | 0.0544 | 0.0491 | 0.9222 | 0.9519 |
|112| 509.8378 | 202 | 232 | 0.0807 | 0.0494 | 0.9094 | 0.9516 |
|113| 379.6696 | 224 | 210 | 0.0545 | 0.0485 | 0.9436 | 0.9666 |
|114| 393.9832 | 229 | 205 | 0.0555 | 0.0488 | 0.9277 | 0.9562 |
|115| 420.1125 | 231 | 203 | 0.0591 | 0.0487 | 0.9283 | 0.9562 |
|116| 461.147  | 216 | 218 | 0.0696 | 0.0436 | 0.9167 | 0.9524 |
|117| 435.54   | 218 | 216 | 0.0653 | 0.047  | 0.9172 | 0.9522 |
|118| 400.423  | 221 | 213 | 0.0589 | 0.0478 | 0.9294 | 0.9587 |
|119| 405.4778 | 214 | 220 | 0.0618 | 0.0485 | 0.9135 | 0.951  |
|120| 435.3515 | 229 | 205 | 0.0621 | 0.0492 | 0.9258 | 0.9551 |
|121| 467.4572 | 219 | 215 | 0.0696 | 0.0495 | 0.9162 | 0.9515 |
|122| 451.823  | 226 | 208 | 0.0653 | 0.0457 | 0.9193 | 0.9517 |
|123| 444.5608 | 213 | 221 | 0.0682 | 0.0471 | 0.9164 | 0.9529 |
|   |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|
| 124 | 360.8171 | 216 | 218 | 0.0535 | 0.0495 | 0.9209 | 0.9548 |
| 125 | 428.2471 | 220 | 214 | 0.0636 | 0.044 | 0.9173 | 0.9519 |
| 126 | 371.5123 | 213 | 221 | 0.0564 | 0.0456 | 0.928 | 0.9594 |
| 127 | 374.1864 | 232 | 202 | 0.0512 | 0.0453 | 0.9215 | 0.9518 |
| 128 | 410.7942 | 212 | 222 | 0.0633 | 0.0487 | 0.9291 | 0.9602 |
| 129 | 480.7249 | 220 | 214 | 0.0712 | 0.048 | 0.9154 | 0.9507 |
| 130 | 408.7257 | 224 | 210 | 0.0594 | 0.0437 | 0.9166 | 0.9506 |
| 131 | 473.8235 | 209 | 225 | 0.0736 | 0.0416 | 0.9114 | 0.951 |
| 132 | 344.6724 | 219 | 215 | 0.0495 | 0.0532 | 0.9407 | 0.9656 |
| 133 | 430.6263 | 230 | 204 | 0.0611 | 0.0464 | 0.9211 | 0.952 |
| 134 | 432.7567 | 231 | 203 | 0.0611 | 0.0487 | 0.9241 | 0.9536 |
| 135 | 511.666 | 240 | 194 | 0.0696 | 0.0456 | 0.9231 | 0.9512 |
| 136 | 435.3927 | 222 | 212 | 0.0641 | 0.0482 | 0.9176 | 0.9516 |
| 137 | 360.0409 | 216 | 218 | 0.0534 | 0.0489 | 0.9322 | 0.9613 |
| 138 | 390.0112 | 230 | 204 | 0.0546 | 0.0444 | 0.9307 | 0.9578 |
| 139 | 411.2425 | 233 | 201 | 0.0572 | 0.0482 | 0.9352 | 0.9601 |
| 140 | 441.3396 | 221 | 213 | 0.0653 | 0.049 | 0.9171 | 0.9515 |
| 141 | 423.1329 | 221 | 213 | 0.0625 | 0.0455 | 0.9182 | 0.9522 |
| 142 | 484.8995 | 218 | 216 | 0.0723 | 0.0422 | 0.9205 | 0.9542 |
| 143 | 424.9599 | 220 | 214 | 0.0631 | 0.0485 | 0.9283 | 0.9583 |
| 144 | 437.5468 | 233 | 201 | 0.0613 | 0.0492 | 0.9285 | 0.9559 |
| 145 | 395.4005 | 228 | 206 | 0.056 | 0.0491 | 0.9282 | 0.9567 |
| 146 | 430.6302 | 229 | 205 | 0.0613 | 0.0475 | 0.9205 | 0.9518 |
| 147 | 505.7797 | 230 | 204 | 0.0716 | 0.0463 | 0.9206 | 0.9517 |
| 148 | 380.6049 | 215 | 219 | 0.0574 | 0.0444 | 0.9155 | 0.9519 |
| 149 | 481.3911 | 226 | 208 | 0.0695 | 0.0499 | 0.9295 | 0.9579 |
| 150 | 361.4001 | 220 | 214 | 0.0524 | 0.0465 | 0.9516 | 0.9718 |
| 151 | 356.5355 | 227 | 207 | 0.0494 | 0.0513 | 0.9247 | 0.9548 |
| 152 | 395.1945 | 227 | 207 | 0.0563 | 0.0483 | 0.9302 | 0.9581 |
| 153 | 420.3603 | 223 | 211 | 0.0615 | 0.0499 | 0.9183 | 0.9518 |
| 154 | 395.4 | 226 | 208 | 0.0566 | 0.0472 | 0.9178 | 0.9508 |
| 155 | 422.053 | 233 | 201 | 0.0589 | 0.05 | 0.9216 | 0.9517 |

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|   |          |    |    |      |      |      |      |
|---|----------|----|----|------|------|------|------|
|156| 361.1325| 224| 210| 0.0511| 0.0497| 0.9329| 0.9602|
|157| 443.7209| 233| 201| 0.0622| 0.0493| 0.9204| 0.9509|
|158| 419.7464| 215| 219| 0.0638| 0.0496| 0.9331| 0.962 |
|159| 422.6659| 226| 208| 0.061 | 0.0489| 0.917 | 0.9504|
|160| 431.8286| 228| 206| 0.0618| 0.047 | 0.9181| 0.9506|
|161| 456.3976| 235| 199| 0.0635| 0.0475| 0.921 | 0.9509|
|162| 348.7459| 222| 212| 0.0494| 0.0498| 0.9431| 0.9666|
|163| 384.086 | 226| 208| 0.0547| 0.0487| 0.9244| 0.9548|
|164| 450.2674| 222| 212| 0.0663| 0.0499| 0.928 | 0.9577|
|165| 333.3395| 216| 218| 0.0482| 0.0516| 0.932 | 0.9612|
|166| 418.5673| 229| 205| 0.0595| 0.0492| 0.9204| 0.9518|
|167| 398.5382| 218| 216| 0.0595| 0.0486| 0.9348| 0.9624|
|168| 353.7505| 225| 209| 0.0495| 0.0509| 0.9235| 0.9545|
|169| 415.5257| 230| 204| 0.0587| 0.0484| 0.9317| 0.9584|
|170| 402.5641| 223| 211| 0.0587| 0.0462| 0.9209| 0.9534|
|171| 384.9787| 229| 205| 0.054 | 0.0478| 0.939 | 0.963 |
|172| 403.9139| 215| 219| 0.0613| 0.0494| 0.9161| 0.9523|
|173| 374.1356| 226| 208| 0.0529| 0.0491| 0.9294| 0.9578|
|174| 390.1415| 216| 218| 0.0587| 0.0488| 0.935 | 0.9628|
|175| 434.5492| 215| 219| 0.0661| 0.048 | 0.9153| 0.9518|