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ANALYSIS OF INDUCED GAMMA OSCILLATIONS WITH A DATA ALIGNMENT TECHNIQUE IN AUTISM AND ATTENTION DEFICIT HYPERACTIVE DISORDER

By:

Eric Gross B.S. Bioengineering, University of Louisville, May 14th 2011

> A Thesis Submitted to the Faculty of the University of Louisville J.B. Speed School of Engineering As Partial Fulfillment of the Requirements For the Professional Degree

MASTER OF ENGINEERING

Department of Bioengineering

April 2012

INDUCED EEG GAMMA OSCILLATION ALIGNMENT IMPROVES DIFFERENTIATION BETWEEN AUTISM AND ADHD RESPONSES IN FACIAL CATEGORIZATION TASK

Submitted by:_____

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Both Dr.'s El-Baz and Sokhadze are part of an outstanding faculty that has supported me throughout this process. Their enthusiasm to their field is unparalleled within the university, and their passion is infectious. Though still a nascent part of the Speed School of Engineering, the Bioengineering department has demonstrated that it is destined to become an important contributor both on a local level, and within the international biomedical research community. I am very fortunate to have been a part of this department during its development, and hope that it continues to grow and shape minds, as it helped to shape me.

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ABSTRACT

Introduction: Children diagnosed with an Autism Spectrum Disorder (ASD) often lack the ability to recognize and properly respond to emotional stimuli. These emotional deficits are also observed in children with Attention-Deficit Hyperactivity Disorder (ADHD), but are often overshadowed by the focus on limited attention span. A growing body of research suggests that there may be links between ASD and ADHD, which requires further study. Investigation of this hypothesis often relies on the Theory of Mind (ToM) construct to frame experiments that explore the relationship between these two Many experiments utilize electroencephalographic (EEG) data to conditions. quantitatively assess brain activity. The emotional deficits in ASD and ADHD may cause a difference within the induced EEG gamma wave burst phenomenon (35-45 Hz) produced approximately 300-400 milliseconds following an emotional stimulus. Because induced gamma oscillations are not fixed at a definite point in time post-stimulus, analysis of averaged EEG data with traditional methods may result in an attenuated gamma burst power. Two hypotheses were proposed in this study. First, a software based data alignment technique could be employed to reduce the attenuation observed in the analysis of these phenomena. Second, improvement of the attenuation would better elucidate similarities and differences to stimuli in an experimental study comparing ASD, ADHD, and control subjects.

Methods: A study was designed to test the response of a subject to emotional stimuli, presented in the form of expressive facial images. In a four part experiment, the subjects were instructed to identify gender in the first two blocks of the test, followed by

differentiating between basic emotions in the final two blocks (i.e. anger vs. disgust). EEG data was collected from ASD (n=10), ADHD (n=9), and control (n=11) subjects via a 128 channel EGI system, and processed through a continuous wavelet transform and bandpass filter to isolate the gamma frequencies. Data alignment was then employed by using a custom MATLAB code to align the individual trials between 200-600 ms post-stimulus for each subject, EEG site, and condition by maximizing the Pearson product-moment correlation coefficient between trials within these groups. The gamma power for the 400 ms window of maximum induced gamma burst was then calculated and compared between subject groups.

Results: Significant main effects for the alignment condition were present across all subject groups, experiment conditions, and EEG channels. Significant main effects also existed for the experimental condition and subject groups. Condition (anger/disgust recognition, gender recognition) x Alignment x Group (ADHD, ASD, Controls) interaction was significant across the parietal topographies. These interactions were better manifested in the aligned data set.

Conclusions: Both hypotheses were supported by the obtained results. The employed data alignment technique significantly reduced the amount of attenuation observed in the averaged signals. Additionally, further analysis showed that significant interactions were more easily observed in the aligned dataset, which suggests that this technique may be beneficial for furthering the comparison of the emotional deficits in ASD and ADHD.

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I. INTRODUCTION

Autism spectrum disorders (ASD) cover a broad range of early onset neurodevelopmental impairments that may be categorized into one of three groups: social interactions, communication, and repetitive behaviors (American Psychiatric Association, 2000). Severity of the symptoms associated with ASD may vary widely from patient to patient, leading most clinicians and researchers to view the disorder as a spectrum of impairments, which also include Aspberger's and Pervasive Developmental Disorder-Not Otherwise Specified (PDD-NOS) (Chlebowski, Green, Barton, & Fein, 2010; Newschaffer et al., 2007). Although ASD was once thought to be a relatively rare condition with a prevalence of 2 to 5 children per 10,000, more recent studies have suggested that the rate may actually be an order of magnitude greater (Yeargin-Allsopp et al., 2003). It is not completely understood whether the rate of prevalence has increased over the past several decades or if identification of individuals with ASD has simply improved. The average lifetime public expenditure on each individual with ASD is estimated to be as high as \$4.7 million (Newschaffer et al., 2007).

Attention deficit/hyperactivity disorder (ADHD) is another early onset condition characterized by inattentiveness and hyperactivity (American Psychiatric Association, 2000). Classic symptoms of ADHD may include being easily distracted, having difficulty remaining still, frequent boredom, and having difficulty following directions. A conglomeration of studies using the most recent guidelines for ADHD reported diagnosis rates in school-aged children ranging from 11 to 18 percent in the United States (Faraone, Sergeant, Gillberg, & Biederman, 2003). The disorder may continue to affect up to 70 percent of individuals with juvenile ADHD into adulthood (Knutson & O'Malley, 2010). Studies have reported higher costs for families with children who have ADHD, including higher direct medical costs and increased hospital visits (Hakkaart-van Roijen et al., 2007).

Both ASD and ADHD are associated with emotional impairments. In ASD, emotional deficiencies are a definitive symptom of the disorder. These difficulties socializing with other individuals often stem from an inability to quickly and accurately read emotional cues and reciprocate with an appropriate response (Begeer, Koot, Rieffe, Meerum Terwogt, & Stegge, 2008; Kuusikko et al., 2009; Ryan & Charragáin, 2010). Although the focus of ADHD research is often on the more conspicuous inattentiveness and hyperactivity observed, a growing interest in the emotional deficits of children with ADHD has spurred new studies to explore this question (Da Fonseca, Seguier, Santos, Poinso, & Deruelle, 2009). Although this deficiency may be tied back to the original problem of inattentiveness (i.e. an inability to focus on reading emotional cues), a recent study has suggested that the emotional deficiency may be a separate issue in it of itself (Yuill & Lyon, 2007). Emotional deficiencies are typically evaluated with experimental visual tasks designed to test the subject's facial recognition skills, but other studies have utilized auditory stimuli to explore this phenomena (Baker, Montgomery, & Abramson, 2010).

While most studies have typically separated ASD and ADHD as unrelated phenomena, more recent reviews have justified the comparison of these disorders in a combined experimental model (Rommelse, Geurts, Franke, Buitelaar, & Hartman, 2011). Genetic investigations have suggested that a common initiator may be responsible for ASD and ADHD, and could explain symptoms that indicate a co-morbidity of the two disorders (Mulligan et al., 2009; Ronald, Simonoff, Kuntsi, Asherson, & Plomin, 2008). Several hypotheses have been proposed to explain the similarities observed in ADHD and ASD subjects, including a model that places the two disorders on a larger spectrum of social disorders. Further investigation is necessary to support the proposed models. While genetic evidence may be an important component of this research, evaluating the performance of subjects with these disorders in clinically relevant tasks (i.e. facial/emotional recognition) may potentially reveal mechanistic differences between similar behaviors in ASD and ADHD, which may challenge or corroborate with other findings.

These experiments often rely on interpreting the results within the Theory of Mind (ToM), which is the method by which an individual assumes another's perspective by characterizing their mental state, or comparing it to their own (Baron-Cohen, 2000). In typically developing (TD) children, the theory of mind begins to develop in infancy, with notable milestones occurring as early as fifteen months on up through six years of age that include the assessment of another's beliefs, and comprehension of beliefs that may be false (Moore & Pure, 1990; Onishi & Baillargeon, 2005; Träuble, Marinovi, & Pauen, 2010). The ToM construct is frequently applied in the study of ASD (Colle, Baron-Cohen, & Hill, 2007; Lerner, Hutchins, & Prelock, 2011; Lind & Bowler, 2010) and may

explain why autistic children struggle with understanding facial expressions, body language, figurative speech, and other social cues that convey emotional information. Applications of this theory have been used to assess both the nature and level of emotional deficiencies in adults with ASD (Baron-Cohen, Wheelwright, Jolliffe, & Therese, 1997).

Many studies investigating other conditions have used the ToM to explain their findings, including schizophrenia (Bora, Yücel, & Pantelis, 2009), bipolar disorder (Wolf, Brüne, & Assion, 2010), chronic depression (Zobel et al., 2010), and ADHD (Perner, Kain, & Barchfeld, 2002). Comparing conditions within the context of ToM may contribute to a better understanding of both disorders. ToM impairment has been compared between ASD and ADHD children in several studies. Tasks requiring children to identify the emotions displayed by a person's face have yielded statistically insignificant differences between ADHD and ASD groups (Bühler, Bachmann, Goyert, Heinzel-Gutenbrunner, & Kamp-Becker, 2011; Buitelaar, Van Der Wees, Swaab-Barneveld, & Van Der Gaag, 1999). Another study attempted to use mental cartoons (drawings where a character humorously depicting a character's ignorance or false-belief) to find differences between ASD and ADHD adults, and was unable to find significant differences between the two groups (Nydén et al., 2010). In some cases, it is unclear whether the employed tests are too insensitive to detect differences between disorder groups, or whether they truly share a similar level of deficiency.

While it may be sufficient for some studies to use easily observable metrics (i.e. accuracy of responses to posed questions, reaction times, etc.) to understand ToM relationships in neurodevelopmental dysfunction, analysis of the electroencephalographic

(EEG) data from subjects with neurodevelopmental disorders provides a top-down approach that helps to correlate physiological and behavioral responses. Studies involving subjects with ADHD (Koehler et al., 2009; Kovatchev et al., 2001) and ASD (Bosl, Tierney, Tager-Flusberg, & Nelson, 2011; Daoust, Lusignan, Braun, Mottron, & Godbout, 2008; Oberman et al., 2005) have attempted to identify and explain abnormalities in the EEG waveforms, and relate these anomalies to observable phenomena within the study, or typical characteristics of the subjects themselves. Information gathered from these studies may then be used to form or support theories on the development of these disorders, or may be used to characterize the EEG waveforms that can be expected to be observed in a particular subject.

Several studies have compared the EEG waveforms between ADHD and ASD subjects who were either asked to remain still, or perform a particular task. In a study using a feedback based learning task, comparison of event-related potentials (ERPs) collected during the task provided statistically significant differences between ADHD, ASD, and TD children (Groen et al., 2008). Similarly, background abnormalities and frequency of localized paroxysmal discharges were found to be a potentially useful metric in differentiating PDD (and other forms of ASD) from ADHD (Kawatani et al., 2012). A study comparing the absolute and relative powers of EEG frequency bands between ADHD children with and without additional symptoms characteristic of ASD found significant differences in the power levels of these two groups. This would suggest that a comorbidity between ASD and ADHD may exist in some children, which opposes the current standard of diagnosing these disorders (Clarke, Barry, Irving, McCarthy, & Selikowitz, 2011). These findings justify the continued research of comparative EEG

waveforms in subjects with ASD, ADHD, and symptoms characteristic of both conditions.

EEG oscillations are separated into several frequency bands, ranging from the slower delta waves (0-4 Hz) to the faster gamma waves (30-80 Hz). The gamma frequencies, particularly those centered about 40 Hz, have been tied to visual, attentional, cognitive, and memory processes (Başar, Schürmann, Başar-Eroglu, & Demiralp, 2001; Müller, Gruber, & Keil, 2000). Following a stimulus, two gamma oscillations are typically noted: an early evoked oscillation and a late induced oscillation (Başar-Eroglu, Strüber, Schürmann, Stadler, & Başar, 1996; Başar, et al., 2001). The evoked gamma oscillations typically occur within the first 200 ms after the onset of a stimulus, and are locked in time from trial to trial. Because little variation is seen in the latency of the evoked gamma with changing stimulus type, it is believed that it may be a result of sensory processes. Conversely, induced gamma oscillations occur later, after 240 ms post-stimulus, and vary in latency from trial to trial (Tallon-Baudry & Bertrand, 1999). These variations may suggest that the induced gamma oscillations are related to higher cognitive processes (Tallon-Baudry, 2003). Deviations from typical gamma band activity have been reported in several studies on neurological disorders, including epilepsy, Alzheimer's disease, ADHD, and ASD (Herrmann & Demiralp, 2005).

Studies have been conducted that observe the gamma EEG frequencies in subjects with either ASD or ADHD. A study examining gamma waveforms that occur while viewing illusory Kanizsa images suggested that the overall gamma activity increased in autistic children (Brown, Gruber, Boucher, Rippon, & Brock, 2005). Another study observed general increases in high frequency EEG activity (including gamma frequencies) in boys with autism, and further suggested that this increased activity may be proportional to the level of deficiency in each child (Orekhova et al., 2007). In a study with ADHD and TD children, no differentiation in the gamma activity was noted between new and familiar images by children with ADHD. Conversely, TD children displayed different gamma responses depending on the familiarity of the image. This suggests that visual memory impairment in ADHD may be associated with this gamma activity (Lenz et al., 2010). A Web of Knowledge search at the time of writing produced no known studies that have compared gamma activity between ADHD and ASD subjects. Given that EEG studies comparing ASD and ADHD while looking at other phenomena have produced interesting results, and that ASD and ADHD subjects, it is justifiable to conduct a gamma study comparing ASD and ADHD.

Since evoked gamma waveforms are synchronized in time post-stimulus, averaging analogous trials typically reveals the evoked response in the averaged waveform. However, induced gamma waveforms vary in time, and thus, appear to be severely attenuated in the averaged response. This makes the analysis of the induced gamma activity more complex than evoked gamma activity. Studies looking at gamma waveforms have either focused on evoked gamma (Lenz et al., 2008), or found and characterized induced gamma activity on a trial by trial basis (Brown, et al., 2005).

A potential solution to the variance observed in the induced gamma waveforms would be to 'align' the signals prior to analysis. Data alignment is a procedure that correlates analogous features between two signals or images, and standardizes them so they may be more accurately compared to one another (Figure 1). This technique is commonly performed in medical imaging studies, where collected images may differ slightly from one another or an amassed source of training data (i.e. level of contrast, angle from which the images were taken, relative position of the object of interest, etc.) (Casanova et al., 2011; El-Baz et al., 2011). A similarity measure (i.e. correlation, mutual information, etc.) is typically used to optimize the alignment process, which reaches an absolute maxima when two images are oriented in the most similar fashion. Alignment corrects these observed incongruences without changing the nature of the phenomena of interest.

A similar methodology can be applied to one-dimensional signals as well, such as EEG waveforms. Data alignment has also been used in EEG studies to align visual evoked potentials with varying latencies via the discrete Fourier transform (Sahin & Yilmazer, 2010). A similar technique may be used to align the induced gamma 'burst' that occurs after the evoked gamma activity, creating an 'aligned averaged' response that better represents the true induced gamma activity.

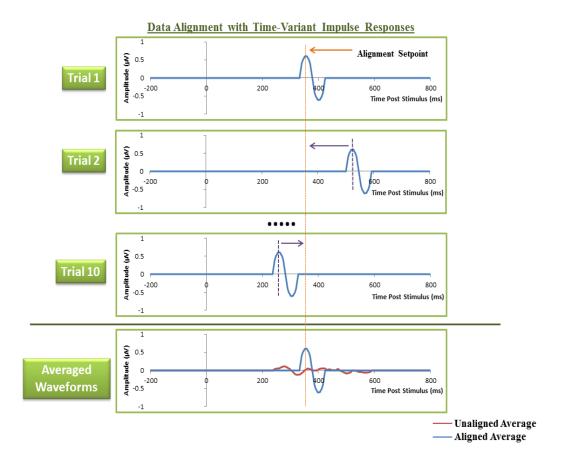


Figure 1: An example of how data alignment can be used to improve analysis with simplified impulse signals that vary in time. The first trial within a set is used as an alignment setpoint for subsequent trials, which are shifted in time to line up with the setpoint. Averaging the aligned form of the signals produces a representative signal that resembles the constituent trials, whereas the unaligned averaged signal is significantly attenuated and visually distinct.

This study proposes a novel method of analyzing the induced gamma activity of an averaged EEG response by using a method of data alignment, which may allow for a more accurate representation of the averaged induced gamma activity of a subject. EEG recordings were collected from ASD, ADHD, and TD/control children while performing a categorization task of faces depicting various emotions. These tasks have been frequently performed in the literature to record ToM and attention-based measures in TD subjects, and identify potential deficits in subjects with control or

neurodevelopmental disorders (Baron-Cohen, et al., 1997; Ribeiro & Fearon, 2010; Schulte-Rüther, Markowitsch, Fink, & Piefke, 2007).

The gamma power of the responses was estimated by using a wavelet technique in MATLAB described in previous studies to isolate the gamma frequencies (Horrell et al., 2010). Alignment was performed offline for each subject by selecting one waveform out of a set of analogous trials, and designating it as the setpoint for the subsequent trials. The Pearson-Product Moment correlation coefficient was used a similarity measure between the setpoint and subsequent trials, and was used to create an 'averaged aligned' waveform for each set. Gamma power was then calculated from both the aligned and unaligned waveforms.

Our hypothesis was twofold. First, we anticipated that alignment would have a dramatic effect on reducing the attenuation observed in the averaged signal. By maximizing the Pearson-Product Moment correlation coefficient, we attempted to reduce the amount of destructive interference caused by the varying latencies during the averaging process, which was expected to reduce the attenuation, and increase the absolute induced gamma power. Second, we expected that the data alignment technique would allow us to better elucidate the induced gamma activity differences between ADHD, ASD, and control subjects. While it is possible that these differences may manifest themselves in the unaligned averaged waveforms, we anticipated that the alignment technique would emphasize these differences, and increase the statistical significance of the findings. This process may contribute to the analysis of induced gamma activity, ToM and emotional deficits in ASD and ADHD.

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II. SUBJECT RECRUITMENT AND DEMOGRAPHICS

Participants with ASD were recruited through the University of Louisville Weisskopf Child Evaluation Center (WCEC). Subject age ranged from nine to twenty years old. Diagnosis was made according to the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV) (American Psychiatric Association, 2000) and was further confirmed with the Autism Diagnostic Interview – Revised (ADI-R) (Le Couteur, 2003). Each subject also had a medical evaluation performed by a developmental pediatrician. All subjects had normal hearing, which was confirmed by auditory tests conducted previously. Participants either possessed normal vision or wore corrective lenses. Subjects with a history of seizure disorder, significant hearing or visual impairment, any brain abnormality identified from imaging studies, or a diagnosed genetic disorder were excluded. All participants with autism were high-functioning persons with full scale IQ > 80 assessed using the Wechsler Intelligence Scale for Children, Fourth Edition (WISC-IV) (Wechsler, 2003) or the Wechsler Abbreviated Scale of Intelligence (WASI) (Wechsler, 2004).

The Structured Clinical Interview for DSM-IV (SCID-I/P) (First, 2002b) was used for diagnoses of ADHD. Nine subjects ranging from thirteen to twenty-one years old who currently meet DSM-IV-TR criteria for ADHD or attention-deficit disorder (ADD) were included. Subjects were evaluated at the WCEC. Parents and teachers were asked to complete the Child Behavior Checklist or Teacher Report Form (Rescorla, 2001) to complete the diagnosis of ADHD. Parents were also interviewed using DSM-IV criteria for ADHD to further support the diagnosis. Only subjects with clinical features meeting criteria for ADHD in both the home and school setting, and also met DSM-IV criteria, were included. All ADHD participants had a medical history and a psychiatric evaluation. For children, both the parents and the child with ADHD provided information for the assessment.

Controls were recruited through advertisements in the local media. All control participants were free of neurological or significant medical disorders, had normal hearing and vision, and were free of psychiatric, learning, or developmental disorders based on self and parent reports. Subjects were screened for history of psychiatric or neurological diagnosis using the Structured Clinical Interview for DSM-IV Non-Patient Edition (SCID-NP) (First, 2002a). Participants within the control, ADHD, and autism groups were attempted to be matched by age, full scale IQ, and socioeconomic status of their family. Socioeconomic status of ASD, ADHD, and control groups was compared based on parent education and annual household income. Participants in each of the three groups had similar parent education levels.

Participating subjects and their parents or legal guardians were provided with full information about the study including the purpose, requirements, responsibilities, reimbursement, risks, benefits, alternatives, and role of the local Institutional Review Board (IRB). The consent and assent forms approved by the IRB were reviewed and explained to all subjects who expressed interest in participating in the study. All questions posed by the subjects, parents, and legal guardians were answered before a consent signature was requested. If the individual agreed to participate, she/he signed and dated the consent form and received a copy cosigned by the investigator who obtained consent.

The mean age of 10 participants enrolled in the ASD group was $14.1 \pm$ (standard deviation) 2.7 years (range 10-18 years, 8 males, 2 females), and the mean age of the ADHD group was 14.2 ± 3.9 years (N=9, range 10-19 years, 7 males, 2 females). The mean age of the Control (CNT) group (N= 11) was 14.8 ± 4.5 years (9-21 years, 8 males, 3 females). The age difference between groups was not significant. Six subjects from the ADHD group and six subjects from the ASD group were on medication. The children with ADHD taking prescribed stimulants (Methylphenidate were or Dextroamphetamine). Two children with ASD were also taking prescribed stimulants (Concerta, Adderall), and four were taking antidepressants (Fluoxetine, Sertraline) and mood stabilizers (Divalproex, Ariprazole). Two children in the ASD group had comorbid mild mood disorders and two had co-occurring anxiety disorders. One subject from the ADHD group had comorbid mild mood disorder, and one had anxiety disorder. These cooccurring conditions were assumed to be insignificant for the purposes of this study.

III. DATA COLLECTION

All EEG data used in this study was collected with a 128-channel Geodesics system (Net Station 200, v. 4.0) (Electrical Geodesics Inc. [EGI], OR), and was processed with a Macintosh G4 computer. EEG signals were sampled at 500 Hz during the categorization task and passed through an analog bandpass filter (0.1-200 Hz). A referential montage was used to standardize the EEG signals, with the reference point set as the vertex at position Cz. The Geodesic Sensor Net used was a lightweight, elastic structure housing silver/silver-chloride electrodes within a synthetic sponge on a pedestal. The sensor net was adjusted prior to the beginning of data collection to ensure that it fit the subject snugly, maximizing the contact made with the scalp, and minimizing the interference from nearby facial muscles (Figure 2). Sponges were soaked in potassium chloride prior to testing to promote electrode conductivity. Sensor impedance was maintained below the recommended manufacturer specification of 40 k Ω .



Figure 2 - The 128-channel EEG sensor net and testing room used in this study. The net was adjusted to fit the scalp of each subject individually to ensure that the electrodes were appropriately placed. The subject was seated in front of a computer display where visual stimuli were presented for the categorization task. Note that the subject seen in this picture was not a participant of this study.

Stimulus presentation for the gender/emotion recognition task was controlled via the E-prime software (Psychology Software Tools, Sharpsburg, PA) running on a personal computer. This software package is commonly used to design psychological experimental procedures using timed stimuli and signal recording. Facial images for the categorization task were presented on a fifteen inch flat-panel display. Subjects were seated during the study, and a chinrest was provided to keep the center of the display approximately 50 cm from the subject's eyes. Subject responses to the stimuli were collected via a keypad connected to the testing computer terminal (Serial Box, Psychology Software Tools, Sharpsburg, PA). Instructions varied between the four blocks of the study, and were presented on the screen to the subject prior to beginning a new segment of the test. All four segments required the subject to select one of two choices by pressing the corresponding button on the keypad explained in the instructions.

The experiment was divided into four segments, corresponding to four categories of facial images presented in the experiment: (1) gender recognition with neutral expressions, (2) gender recognition with emotional expressions, (3) anger versus disgust recognition, and (4) fear versus sadness recognition. The presentation of blocks in the study was counter-balanced to keep ordering effects negligible. In each section, the subject was asked to categorize the displayed face into one of two groups, differentiating either the gender or the perceived emotional state of the individual in the image. The subjects indicated their selection by pressing the corresponding button on the keypad. Each category contained sixty images for the subject to differentiate. Every image remained on the screen for a 300 ms period. Pauses between stimuli ranged from 1100-1300 ms to avoid anticipatory effects. EEG recording occurred throughout the entire experimental procedure, but was later segmented into smaller data segments for more efficient analysis (Figure 3). The complete four category experiment took approximately twenty minutes to complete, including short breaks that were provided between image categories, presentation of the instructions, and brief practice sessions prior to each category.

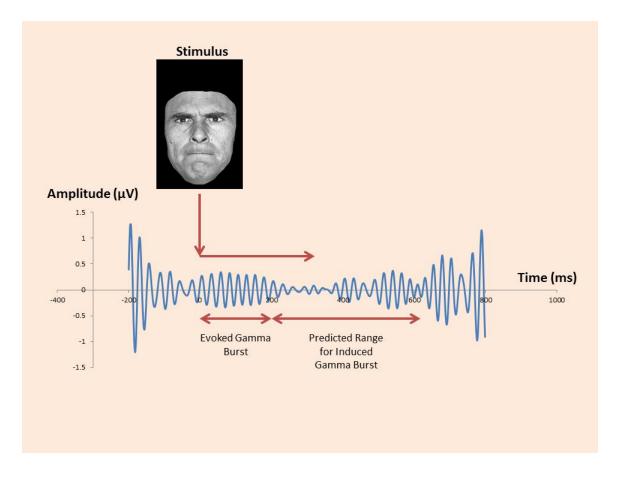


Figure 3 - A visual representation of the categorization task. Each image remained on the screen for 300 ms. The subject was given approximately 1100-1300 ms to categorize the face into one of two groups before the next image appeared on the screen. The time between images varied to discourage anticipation. Segmentation was performed for each image starting 200 ms before stimulus presentation, to 800 ms after stimulus presentation.

Each facial image category contained twenty-four unique black-and-white images, with equal representation of male and female subjects. Similarly, in emotion recognition tasks, each emotion was equally represented. The hair from all subjects in the images was removed to increase the difficulty of the categorization task. Seventy-two total images were used for all four categories, with some reuse between categories. All images were randomly selected from standard databases of facial pictures developed for similar studies (Pictures of Facial Affect, Paul Ekman 1976-2004, Berkeley, CA; JACFEE/JACNeuF, David Matsumoto and Paul Ekman, 1988-2004, Berkeley CA). The subjects were required to complete sixty trials for each section corresponding to a different facial image category (Figure 4).

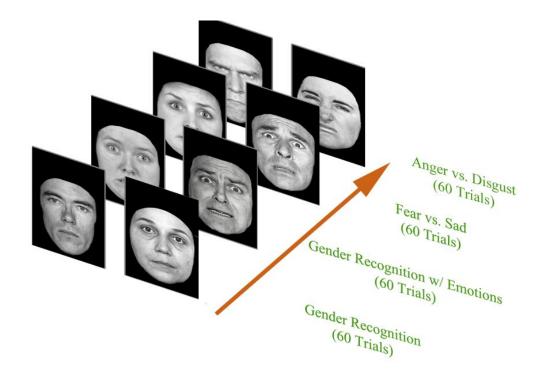


Figure 4 - A representation of the four block experimental study and examples of the facial images used during the test procedure. Participants were asked to distinguish a face as belonging to one of two groups: male or female, angry or disgusted, or fearful or sad. Each test block consisted of sixty trials, with twenty-four unique images per trial.

The collected EEG recordings were stored in Net Station (EGI), tagged according to test category, and segmented offline into one second trials. The collected trials were first divided by subject type (ADHD, ASD, or control), and then kept separate for each individual subject within that type. The data was then organized into four experimental conditions based on the task the subject was asked to perform: 1) Gender Recognition-All, 2) Emotion Recognition-All, 3) Anger/Disgust Recognition, and 4) Fear/Sad Recognition (Figure 5). 11 of the 128 EEG channels were selected for induced gamma power analysis and further data processing (Figure 6). Approximately thirty trials were used for analysis in the Anger/Disgust and Fear/Sad recognition for each subject, and sixty trials were used in the Gender/Emotion Recognition. This data was exported into MATLAB for further signal processing. All subjects included in this study completed the entirety of the experiment, and had a sufficient amount of data for each experimental condition.

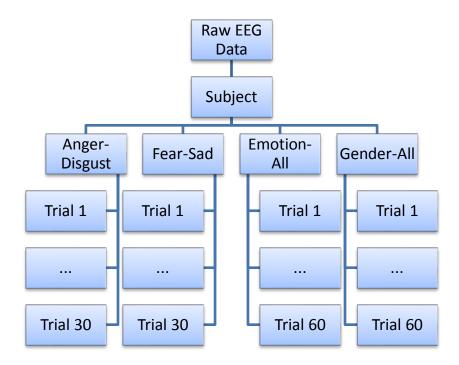


Figure 5 - The four experimental categories used for data analysis. For each subject, sixty trials were selected for analysis in the gender and overall emotion recognition categories, while thirty were selected for the individual emotion recognition tasks (i.e. anger versus disgust).

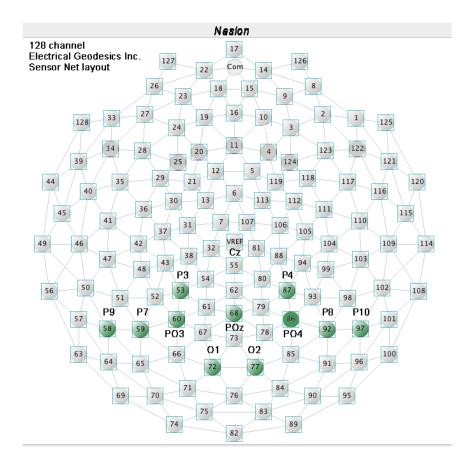


Figure 6 - Location of the eleven electrodes selected for analysis in this study.

IV. DATA ANALYSIS

Filtering Technique

After the collected EEG trials from the gender/emotion categorization task were organized as previously described, they were processed via Wavelet analysis. This technique allows for visualization of the collected signals in both the time and frequency domains, and can be used to isolate the frequencies of interest (i.e. the gamma band) from the broad spectra of EEG waveforms in combination with a digital filter. Wavelet analysis provides information about the dynamic changes in amplitude of gamma waveforms at varying frequencies within the selected time interval, as opposed to the static perspective offered by more traditional methods of Fourier analysis. In this study, a one-dimensional continuous wavelet transform (Equation 1) was performed using the MATLAB Wavelet Toolbox.

$$CWT\frac{\psi}{x}(\tau,s) = \frac{1}{\sqrt{s}} \int \left[\left(x(t)\psi * \left(\frac{t-\tau}{s}\right) dt \right] \right]$$
(1)

Equation 1: The general formula for the continuous Wavelet transform utilized in the signal processing portion of this study.

The Morlet window was selected as the mother wavelet (ψ) in this analysis, a plot of which can be seen in Figure 7. The continuous wavelet transform created 128 coefficients for each trial that underwent data analysis. The range of these coefficients contained information about the higher frequency (represented by lower coefficient numbers) and lower frequency (represented by higher coefficient number) components in the signal.

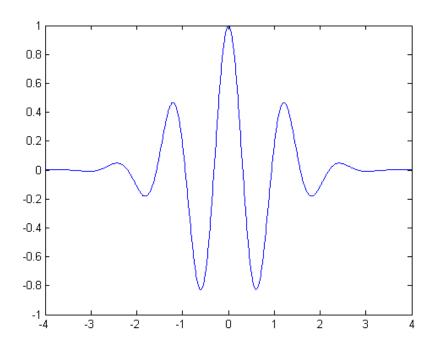


Figure 7: A graphical representation of the Morlet window used in the continuous onedimensional wavelet analysis.

Following wavelet analysis, a custom bandpass filter with a Harris 7 window was applied to the signals to isolate frequencies of interest. This filter allowed for the passage of the gamma frequencies between 35-45 Hz with a two Hz attenuation band. The Harris window used in the filter design was composed of 725 samples. A similar Wavelet/Harris filtering technique was used in previous gamma analysis studies on neurofeedback and cue reactivity (Horrell et al., 2010).

Data Alignment

Filtered data was further processed in MATLAB to create two datasets for analysis: one unaligned dataset (similar to what would be used in traditional EEG studies) to serve as a control, and another analogous dataset created after utilizing the proposed alignment technique on the segmented EEG trials. To construct the aligned dataset, segmented trials were organized into groups by subject, experimental condition, and EEG channel (i.e. thirty trials in group Eric-Anger/Disgust-P3, etc.). Within each group, the first trial was selected as the setpoint for that group to be used in the data alignment step. A 400 ms window from 200 to 600 ms post-stimulus was then segmented from the setpoint trial to capture the range of time where induced gamma activity is expected to occur.

Subsequent trials in the group were then compared to the setpoint. For each trial, a 400 ms window starting at 100 ms post-stimulus was initially selected (i.e. 100 to 500 ms post-stimulus). The two-dimensional Pearson-Product Moment correlation coefficient (Equation 2) was then calculated between this window and the setpoint. The window was shifted by 2 ms forward in time (i.e. 102 to 502 ms post-stimulus) and the coefficient

calculation was repeated. This process was performed iteratively 101 times, shifting the window incrementally to cover a total time span of 100-700 ms post-stimulus in 400 ms segments. The 400 ms window with the largest positive correlation coefficient was then selected as the 'aligned' form of the signal, and was exported into the database for aligned trials. (Figure 8) This process was repeated for all signals within a group, and for all groups in the original dataset.

$$r = \frac{\sum_{m} \sum_{n} (A_{mn} - \bar{A})(B_{mn} - \bar{B})}{\sqrt{(\sum_{m} \sum_{n} (A_{mn} - \bar{A})^2)(\sum_{m} \sum_{n} (B_{mn} - \bar{B})^2)}}$$
(2)

Equation 2: The formula to calculate the Pearson-Product Moment correlation coefficient, which was used to find the level of similarity between the setpoint and the subsequent trials for the alignment technique.

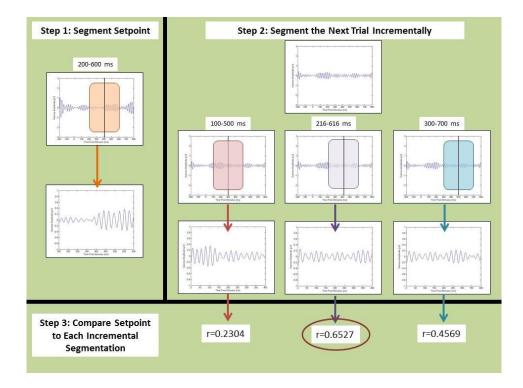


Figure 8 - The step-by-step procedure of the alignment technique. First, the setpoint is chosen by segmenting the first signal in a set from 200-600 ms post-stimulus. Subsequent trials are then incrementally segmented in 400 ms pieces starting at 100 ms post-stimulus, with a 2 ms shift each increment. The correlation coefficient is calculated for each increment, and the level of shift that produces the highest positive coefficient value is selected as the 'aligned' 400 ms segment for analysis. This process is repeated for each trial within a set until each trial is aligned to the setpoint.

An unaligned database was also created by simply segmenting the original trials from 200 to 600 ms post-stimulus without utilizing any alignment technique. The unaligned segmented trials were organized into the same groups as the aligned dataset, so that they would be analogous to one another in the analysis phase.

Averaging and Gamma Power Calculation

Trials within each group were averaged together in MATLAB to produce a 400 ms signal for both the aligned and unaligned datasets. Gamma power was calculated by summing the squares of the amplitude at each point in the averaged signals. Gamma power was reported in units of μV^2 . A flowchart depicting the data analysis steps for the aligned dataset is shown in Figure 9.



Figure 9 - A flowchart depicting the steps in the data analysis procedure for the aligned dataset. The unaligned dataset was created similarly, with the exclusion of the data alignment phase in the flowchart.

Power values from both datasets were organized into tables for statistical analysis. Within each subject type and experimental condition pairing (i.e. ADHD, Anger/Disgust, etc.) outliers were identified and removed using two standard deviations from the mean as the initial exclusion criteria. Subjects who had power values excluded for a particular EEG channel were retained in the study if other channels had values that were not excluded. If a power value for a particular subject, experimental condition, and channel (i.e. Eric-Anger/Disgust-P3, etc.) was excluded in the aligned dataset, the corresponding value was also excluded in the unaligned dataset, even if the unaligned value fell within two standard deviations of the mean for the unaligned pairing. Similarly, values excluded in the aligned dataset caused the removal of the corresponding values in the aligned dataset. This step was performed to ensure that two datasets could be compared to one another fairly.

Statistical Analysis

Data analysis was performed in SPSS (v. 18) and MINITAB (v. 16). Gamma power values calculated in the previous step were loaded into the program following the removal of outliers. A repeated measures analysis of variance (ANOVA) was performed with a combination of the following factors: experimental condition (Anger/Disgust, Fear/Sad, etc.), channel (P3, P4, etc.), hemisphere (right or left), alignment (aligned and unaligned) and in between subjects recruited for the study. Subjects were also split into subject groups (ADHD, ASD, or control) for some ANOVA models. Models were constructed to test for significant interactions between subject group, experimental condition, hemisphere, and alignment for channel pairs (i.e. P3 and P4, P7 and P8, etc.). Experimental conditions varied in our ANOVA models. Simple models compared the gender and emotion recognition tasks generally (i.e. Gender All vs. Emotion All) while more specific models looked at the individual emotion recognition tasks separately and compared them to the gender recognition task (i.e. Anger/Disgust vs. Gender All). Greenhouse-Geisser corrected p-values were used for determination of statistical significance when appropriate.

V. RESULTS

Main Effect of Data Alignment

A significant main effect of alignment (F=995.89, p<0.0001) was observed across all parietal and occipital channels collected (P3, P4, P7, P8, P9, P10, POz, PO3, PO4, O1, O2). The significant main effects and interactions of the Anger/Disgust, Fear/Sad, Gender-All model are reported in Table I. This main effect of alignment was observed in all ANOVA models regardless of the experimental conditions selected for comparison. Similarly, the significant main effect for alignment was observed individually in all channels and hemispheric channel pairs. Line plots created in MINITAB depict the difference between averaged aligned and unaligned power values across subject and experimental conditions, as shown in Figure 10.

TABLE I

ANOVA TABLE FOR INDUCED GAMMA POWER

Factor	Туре	Levels	Values					
Condition	fixed	3	Anger-Dis	gust, Fear	-Sad, Gen	nder-All		
Alignment	fixed	2	Aligned,	Unaligned				
Group	fixed	3	ADHD, Aut	ism, Contr	ol			
Analysis of	Varianc	e for Po	wer-P, usi	ng Adjuste	ed SS for	Tests		
Source			DF	Seq SS	Adj SS	Adj MS	F	P
Condition			2	11.41	11.52	5.76	3.45	0.032
Alignment			1	1670.95	1663.13	1663.13	995.89	0.000
Group			2	80.12	80.03	40.01	23.96	0.000
Condition*Al	ignment		2	2.64	2.52	1.26	0.76	0.470
Condition*Gr	oup		4	2.39	2.39	0.60	0.36	0.839
Alignment*Gr	oup		2	0.98	1.04	0.52	0.31	0.733
Condition*Al	ignment	*Group	4	17.91	17.91	4.48	2.68	0.030
Error			1824	3046.07	3046.07	1.67		
Total			1841	4832.46				•

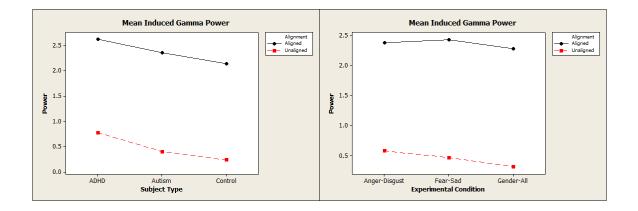


Figure 10 - Line plots emphasizing the difference between aligned and unaligned averaged power values across subject types (Left) and experimental conditions (Right).

A direct comparison of the aligned and unaligned signals was performed in MATLAB. Coinciding with the statistical analysis previously described, the amplitude of

the aligned waveforms appeared to be higher, resulting in greater overall power values for the aligned dataset. Two graphs prepared in MATLAB shown in Figure 11 provide an example of the difference between the aligned and unaligned waveforms for a single channel, subject, and experimental condition (i.e. P7-Eric-Anger/Disgust).

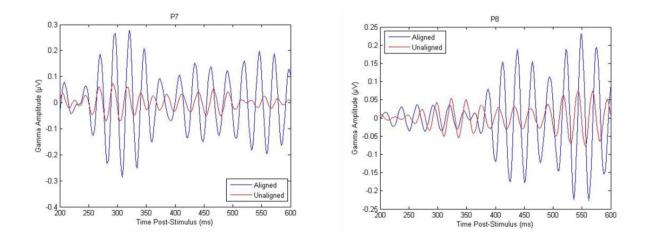


Figure 11 - An example of aligned and unaligned EEG signals in parietal channels for a single subject and experimental condition (i.e. Eric – Anger/Disgust) in two different channels.

Additional Main Effects

Significant main effects for experimental condition (F=3.45, p=0.032) and subject group (F=23.96, p=0.000) were also present across all parietal and occipital channels in the Anger/Disgust, Fear/Sad and Gender-All ANOVA model, as reported in Table I. Figure 12 depicts these main effects across both the aligned and unaligned datasets.

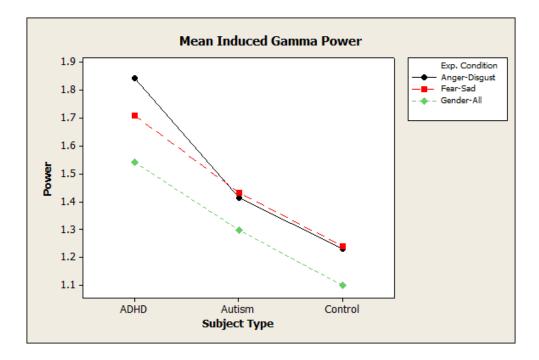


Figure 12 - A graph depicting the main effects of experimental condition and subject type across both the aligned and unaligned datasets. The emotional tasks were significantly higher in average mean induced gamma power for all subject types. Similarly, power values from ADHD subjects appeared higher than those from autistic and control subjects.

Significant Interactions

Significant Group-Condition-Alignment three-way interactions were observed generally across the parietal and occipital channels in the Anger/Disgust, Fear/Sad, Gender-All ANOVA model (F=2.68, p=0.030). No significant two-way interactions were present across all channels when using this model.

In an ANOVA model that compared the Anger/Disgust recognition task to the gender recognition task, significant interactions could be seen in the P3-P4 channels (F=3.43, p=0.048) and P7-P8 channels (F=4.304, p=0.025). As shown in Figure 13, significant effects of Condition-Group pairings became more apparent in the aligned

datasets. Descriptive statistics for P3-P4 and P7-P8 three-way interaction groups are provided in Table II.

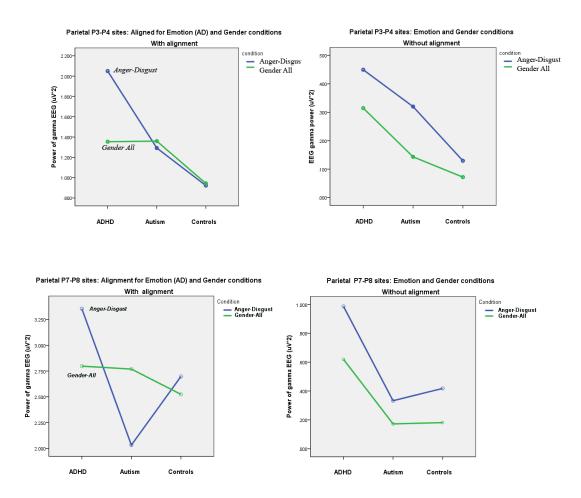


Figure 13 - Interaction plots for parietal channels depicting differences in Condition, Group, and Alignment pairings. Plots revealed significant interactions in the aligned dataset that would otherwise have gone unnoticed. Top: Channel pair P3-P4, Bottom: Channel pair: P7-P8

TABLE II

			<u>Alig</u> r	ned	<u>Unal</u>	igned
	Patient Group	Experimental Condition	Mean	Standard Error	Mean	Standard Error
	ADHD	Anger/Disgust	2.049	0.286	0.450	0.126
	ADHD	Gender All	1.354	0.203	0.315	0.084
P3 - P4	Autism	Anger/Disgust	1.292	0.283	0.320	0.126
P5 - P4	Autism	Gender All	1.360	0.203	0.143	0.084
	Control	Anger/Disgust	0.922	0.271	0.129	0.120
	Control	Gender All	0.943	0.192	0.072	0.080
	ADHD	Anger/Disgust	3.355	0.500	0.987	0.215
	ADHD	Gender All	2.798	0.491	0.620	0.160
00 70	Autism	Anger/Disgust	2.031	0.530	0.333	0.228
P7 - P8	Autism	Gender All	2.769	0.520	0.172	0.169
	Control	Anger/Disgust	2.697	0.474	0.418	0.204
	Control	Gender All	2.524	0.465	0.181	0.151

DESCRIPTIVE STATISTICS FOR SIGNIFICANT PARIETAL CHANNEL PAIRINGS

VI. DISCUSSION

This study attempted to answer two proposed questions: can the attenuation observed in the induced portion of collected gamma oscillations be reduced by using a method of data alignment, and can this method contribute to the analysis of differences between ASD, ADHD, and TD subjects? The obtained results contributed to answering both of these questions. The method of data alignment used in this study, while simple in its implementation, is novel in its application to power analysis of EEG signals. This study serves as a pilot investigation for future Theory of Mind influenced experiments comparing ASD, ADHD, and TD subjects.

Main Effect of Alignment

Overall, the main effect of the alignment technique (p<0.0001) was the most profound in the entire study. With very few exceptions, the aligned averaged power of the induced gamma oscillations had a higher value than their unaligned counterpart. This effect is most notably observed in Figure 11 and Table I, and suggests that the data alignment technique employed in this study effectively reduces the attenuation of induced gamma waveforms for all channels, subject groups, and experimental conditions observed. The extremely large main effect of alignment may be explained by the nature of the MATLAB program utilized in this study. Our program aligned trials by shifting them within a fixed window of time to maximize the amount of overlap that occurs. This reduced the attenuation of the averaged signal. If the maximum overlap hypothetically occurred from trial to trial before performing any shift on the time axis, the 'aligned' dataset would be identical to the 'unaligned' dataset. Thus, the power of the aligned averaged waveform should always be equal to or greater than the power of the unaligned averaged waveform, since the program will not produce an aligned signal that is more attenuated than the unaligned signal. This effect was confirmed visually by examining the graphs of aligned and unaligned waveforms produced in MATLAB, as shown in Figure 11.

The averaged induced gamma oscillations graphed in MATLAB Figure 11 verify the conclusions drawn from the statistical analysis, clearly showing that the aligned counterpart had a higher maximum amplitude on average, and consequently, a higher overall power value. This effect does not appear to be entirely random. The aligned oscillation for channel P8 in Figure shows that the amplitude of the aligned signal remains relatively close to that of the unaligned signal until approximately 400 ms poststimulus. At this point, the aligned oscillation quickly grows in amplitude for the remainder of the segment. This suggests that the alignment technique used in this study does not artificially increase the amplitude at all points. If the induced gamma activity is only active during a particular window of the total time, then the aligned averaged oscillation produced will reflect that phenomena. Thus, the aligned averaged response appears to remain true to the behavior of the constituent signals.

Other Main Effects

Although the focus of this study was on the effect of alignment, and how the technique may further understanding in the study of ADHD, ASD, and TD subjects, the experimental condition and subject group main effects are important to note. Had these effects appeared insignificant in the statistical analysis, the justification for using data alignment in these particular kinds of experiments would be significantly weakened. Detection of differences in the performance of subjects across different experimental conditions and subject groups verifies that this study is working with meaningful metrics, and coincides with expectations in the literature.

The main effect of experimental condition (p=0.032), as reported in Table I, suggests that the type of recognition task the subject was asked to perform had an effect on the induced gamma power recorded on average, regardless of the alignment method used, channel selected, or subject group observed. As shown in Figure 10, the emotion recognition tasks (i.e. Anger/Disgust, Fear/Sad) appeared to produce higher power levels on average than the gender recognition tasks. This coincides with the original hypothesis that suggested that the emotional recognition tasks would be more intensive than the simpler, gender recognition task.

Similarly, the main effect of subject group (p<0.01) reported in Table 1 suggests that the different types of subjects (i.e. ADHD, ASD, and TD) performed differently in the various tasks. This effect may also be observed in Figure 10, which suggests that the induced gamma power was higher in individuals with ADHD or ASD on average, across all channels, experimental conditions, and alignment methods. Because it is expected that

children with neurodevelopmental disorders will struggle with these recognition tasks more than TD children, this result seems reasonable.

Significant Interactions

Significant Group-Condition-Alignment three-way interactions seen in the parietal channels suggest that the alignment procedure produces data that better resolves the differences between Group-Condition pairings. Whereas significant Group-Condition effects would have gone unnoticed in the parietal channels with traditional techniques, alignment provided a means of visualizing these significant differences between ADHD, ASD and control subjects. This effect was observed across all parietal and occipital channels using the Anger/Disgust, Fear/Sad, Gender-All ANOVA model, as observed in Figure 12 and Table I, and in individual parietal channel pairings using the Anger/Disgust and Gender-All ANOVA model as shown in Figure 13 and Table II.

Multiple ANOVA models were used to identify the situations where the most significant results were produced. Although a general three-way significant interaction was observed using the Anger/Disgust, Fear/Sad, Gender-All ANOVA model across all parietal and occipital channels, the same effect was only observed in individual channel pairings (i.e. P3 and P4, P7 and P8) when the ANOVA model was changed to Anger/Disgust and Gender-All only. It is hypothesized that the Anger/Disgust task may produce the strongest emotional response during the study, effecting the highest induced power levels. Thus, by limiting the statistical analysis to the Anger/Disgust recognition task and the less difficult gender-recognition task, more significant interactions were observed when looking at the individual channel pairings. This simplified ANOVA

model still provides useful information, because it compares an emotional recognition task to the gender recognition task across the various subject types and experimental conditions.

Comparison of Induced Gamma Power in Subject Groups

Prior to analysis, it was hypothesized that the emotion recognition tasks would be more challenging for ADHD and ASD subjects than the gender recognition tasks, and would be more likely to effect changes in the induced gamma waveforms between the subject groups. The significant interactions in Figure 13 reveal some trends that support this hypothesis. Within the aligned datasets, the power of the gender recognition task remained relatively constant between ASD, ADHD, and control subjects. Much greater variation is seen in the anger/disgust recognition task. ADHD subjects typically exhibited a higher induced gamma power during this task compared to the gender recognition task. Conversely, ASD subjects had a lower induced gamma in the anger/disgust recognition task versus the gender recognition task. Control subjects had relatively small differences between the induced power of the two tasks compared to ADHD (P3-P4 and P7-P8) and ASD (P7-P8) subjects.

Although these effects were not observed in other channel pairings, their effect was strong enough to cause the three-way interaction to be present in the statistical analysis of all of the parietal and occipital channels, as shown in Table 1. It is possible there was an insufficient amount of subjects or data samples in this study to reveal the significant three-way interaction in all channel pairings. It is also possible that this interaction may be limited to the parietal region covered by channels P3, P4, P7, P8. The parietal/occipital channels are of particular interest and were chosen for analysis because of their involvement with mentalizing and visual processes, and their proximity to the temporal region, where the fusiform face area is located. These regions are hypothesized to be connected to facial recognition mechanisms, and are the subjects of study in Theory of Mind research, particularly those studies that involve subjects with ASD.

This study is merely a pilot for future research into the induced gamma behavior of ASD, ADHD, and TD subjects during facial categorization and other ToM tasks. The statistical analysis demonstrated that the alignment method used identified interactions between subject groups and experimental conditions that would otherwise have gone unnoticed, and these differences coincide with expectations from the literature. Further investigation would be necessary to draw more rigorous conclusions from this type of study.

Data Processing Method

The outlined alignment procedure may be modified for future studies. A wide 400 ms window was selected to ensure that the induced gamma region of the signals was captured, though this window could be changed to any value less than the total length of the signal. Similarly, the selection of the setpoint window from 200 to 600 ms post-stimulus could be shifted if the induced gamma is anticipated to occur at a different point in time. The incremental comparisons between the setpoint and subsequent trials in a group were made every 2 ms based on the system sampling frequency of 500 Hz, though this value could be increased to improve the speed of the program at the cost of lower

resolution. The time range examined in the incremental comparisons was set from 100 to 700 ms post-stimulus, but this range may be changed as needed.

A potential source of error this alignment technique introduces is the selection of a setpoint. In this study, the first trial in each Subject-Condition-Channel group was segmented from 200-600 ms, and used to align the subsequent trials in the group. If this trial had artifacts or grossly abnormal induced gamma activity, it is possible that the system may align the subsequent trials improperly. This may be alleviated by examining trials prior to analysis, as was done in this study. Future efforts may include incorporating an algorithm that examines the setpoint prior to alignment, and accepts or rejects it based on user-contributed criteria (i.e. amplitude threshold, minimum power, etc.).

An additional source of potential error in this study is the selection of EEG channels for analysis. Although the selected electrodes are organized into a standardized system to allow for some universal comparison, only ten of the 128 recording electrodes were analyzed. Many of these electrodes were in regions of no interest in this study (i.e. frontal, etc.) but other parietal/occipital electrodes could have been selected, that may have yielded different results upon analysis.

VII. FUTURE WORK

A potential modification to the data alignment technique involving peak detection was investigated during this study, but would require further refinement before it could be implemented for use. In brief, the MATLAB program would be designed to identify the region within the segmented trials with the highest amplitude (presumably where the peak of the induced gamma oscillations were occurring) and would take a power reading over a small window centered at that point. This could potentially eliminate the iterative process used in this study to align the signals to one another, which would reduce the time required to run the program. A future study could be performed comparing this alignment method to the correlation coefficient method proposed in this study.

Although the parietal and occipital channels were the subject of interest in this study, the same analysis could be applied to the frontal channels, where higher cognitive activities may be involved in the processing of the recognition tasks. As previously mentioned, the parameters of the data alignment process may be freely changed prior to analysis. If differences in the induced gamma behavior distinguished the frontal EEG channels from the parietal/occipital channels (i.e. window of activity), it would simply be a matter of identifying that behavior prior to analysis, and modifying the alignment procedure to compensate for those differences.

This study compared differences between ADHD, ASD, and control subjects, but this same technique could be employed for other conditions, such as Parkinson's disease, Alzheimer's disease, post-traumatic stress disorder, and addiction disorders. Any condition where a visual, emotional, or attentional task may evoke unusual responses could serve as a potential candidate for further study via induced gamma waveform analysis. Similarly, the frequency band of interest may be modified simply by changing the Wavelet/Bandpass filter. Though 30-45 Hz is typically the region of interest for induced gamma studies, it is possible to expand the filter to include the higher gamma frequencies up to 80 Hz.

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APPENDIX I – MATLAB ALIGNMENT CODE

```
% Alignment Code
% Used on EEG data after Wavelet/Bandpass Filter is applied.
<u>&_____</u>
clear all
clc
close all
$_____
parentDir=cd;
allData_dir =[cd '\Aligned\Post-Gamma\'];
% Output directory to save results
OutDir = [cd '\Aligned\Aligned Post-Gamma\'];
dataFolders = dir(allData dir);
% Total # of subjects (Includes hidden folders)
FL = length(dataFolders);
Ks=0;
for zz =1 : FL
   % Takes care of hidden files.
   if strcmp(dataFolders(zz).name,'.') | strcmp(dataFolders(zz).name,'..')
      continue:
   end
   Ks=Ks+1;
end
% This loops is for all patient groups (i.e. ASD, ADHD, etc.)
typeCount =0;
for yy = 1 : FL
   уу;
   % Takes care of hidden files.
   if strcmp(dataFolders(yy).name,'.') | strcmp(dataFolders(yy).name,'..')
      continue;
   end
   typeCount = typeCount+1;
   % Current Data Set Directory and its Output Directory
   curFolder = dataFolders(yy).name;
   curData dir=[allData dir, curFolder ];
   mkdir(OutDir, curFolder)
   curData out=[OutDir,curFolder ];
   $_____
   patientFolders = dir(curData dir);
   % Total # of subjects within a patient group (Includes hidden folders)
   FL2 = length(patientFolders);
   Ks2=0;
   for vv =1 : FL2
      % Takes care of hidden files.
      if strcmp(patientFolders(vv).name,'.') |
strcmp(patientFolders(vv).name,'...')
         continue;
      end
```

```
Ks2=Ks2+1;
   end
   %This loop is over all patients within a specific type (i.e. ADHD).
   patientCount = 0;
   for yy2 = 1 : FL2
         уу2;
    % Takes care of hidden files.
    if strcmp(patientFolders(yy2).name,'.') |
strcmp(patientFolders(yy2).name,'...')
       continue;
   end
   patientCount = patientCount+1;
   % Current Data Set Directory and its Output Directory
   patientFolder = patientFolders(yy2).name;
   patientData dir=[curData dir, '\' patientFolder ];
   mkdir(curData out, patientFolder)
   patientData out=[curData_out,'\' patientFolder ];
    %------
    <u> २</u>_____
   conditionFolders = dir(patientData_dir);
    % Total # of experimental conditions (i.e. Anger/Disgusted) (Includes
hidden folders)
   FL3 = length(conditionFolders);
   Ks3=0;
    for cc =1 : FL3
        % Takes care of hidden files.
        if strcmp(conditionFolders(cc).name,'.') |
strcmp(conditionFolders(cc).name,'...')
               continue;
           end
           Ks3=Ks3+1;
       end
      %This loop is over all conditions (i.e. Anger/Disgust) for a certain
subject.
      condCount = 0;
      for yy3 = 1 : FL3
           % Takes care of hidden files.
           if strcmp(conditionFolders(yy3).name,'.') |
strcmp(conditionFolders(yy3).name,'...')
               continue;
           end
           condCount = condCount+1;
           % Current Data Set Directory and its Output Directory
           condFolder = conditionFolders(yy3).name;
           conditionData_dir=[patientData_dir, '\' condFolder ];
           mkdir(patientData out, condFolder)
           curCondition out=[patientData out, '\' condFolder ];
xlsDir Input = conditionData dir
cd(xlsDir Input) % Input data folder
%xlsDir Output=[cd '\Output Excel Files\'];
                                            % Output data folder
%Structure with all files in the specified dir.
```

```
allXls Files = dir(xlsDir Input);
%Total # of files inncludes hidden ones
FL = length(allXls Files);
conditionFiles = dir(conditionData dir);
% Total # of subjects (Includes hidden folders)
FL4 = length(conditionFiles);
Ks4=0;
for ff =1 : FL4
% Takes care of hidden files.
  if strcmp(conditionFiles(ff).name,'.') |
strcmp(conditionFiles(ff).name,'...')
     continue;
  end
  Ks4=Ks4+1;
end
<u>%_____</u>
% Outlines the alignment parameters
% corrStep = The shift on the x-axis between trials that are being compared t
2
           to the setpoint.
% startStep = The furthest, left-most starting point for the alignment
9
           process to begin.
% endStep = The furthest, right-most ending point for the alignment process
          to conclude on.
Sxls all=['A' num2str(1) ':R' num2str(201)];
corrStep = 1;
startStep = -50;
endStep = 50;
fileCount = 0;
<u>&_____</u>
% This portion identifies the setpoint for a particular patient and
% experimental condition. All eighteen channels are independently and
% simultaneously aligned.
           for yy4 = 1 : FL4 %To pick up the first trial
               % Takes care of hidden files.
               if strcmp(conditionFiles(yy4).name,'.') |
strcmp(conditionFiles(yy4).name,'..')
                  continue;
               end
               fileCount = fileCount+1;
               % Current Data Set Directory and its Output Directory
               condFile = conditionFiles(yy4).name;
               allChannelsRef = xlsread([conditionData dir, '\' condFile ]);
               selChannelsRef =zeros(size(allChannelsRef,1),18);
               for k =1:18
                  selChannelsRef(:,k) = allChannelsRef(:,k);
               end
               croopedChannelsRef = selChannelsRef(200:400,:);
               break
           end
           xlswrite([ curCondition out '\' condFile
```

```
],croopedChannelsRef,Sxls_all)
```

```
% This portion aligns the remaining trials within each patient-condition
% folder. The channels are independetly aligned (i.e. F1 might be shifed
% 30 ms backward, while F2 is shifted 80 ms forward). The startStep and
% endStep represent the range on the x-axis that the program will attempt
% to align the trials. The corrStep is the resolution of the alignment
% process.
           for yy4 = 4 : FL4 %This loop starts from the second trial
               % Takes care of hidden files.
               if strcmp(conditionFiles(yy4).name,'.') |
strcmp(conditionFiles(yy4).name,'...')
                   continue;
               end
               % Current Data Set Directory and its Output Directory
               condFile = conditionFiles(yy4).name;
               allChannels = xlsread([conditionData dir, '\' condFile ]);
               selChannels =zeros(size(allChannels,1),18);
               for k =1:18
                   selChannels(:,k) = allChannels(:,k);
               end
               allCorr vals = zeros(endStep-startStep+1,18);
               myCount =0;
               candChannels = zeros(size(croopedChannelsRef,1),18);
               for ee =1:18
                   myCount =0;
                   Corr vals = zeros(endStep-startStep+1,1);
                   for hh = startStep:corrStep:endStep
                       myCount = myCount+1;
                       croopedChannels = selChannels(200+hh:400+hh,:);
                       Corr vals(myCount)
= (corr2(croopedChannelsRef(:,ee),croopedChannels(:,ee)));
                   end
                   [curVal curPos]=max(Corr vals);
                   candChannels(:,ee) =
selChannels(200+startStep+curPos:400+startStep+curPos,ee);
                   allCorr vals(:,ee) =Corr vals;
               end
               xlswrite([ curCondition out '\' condFile
],candChannels,Sxls_all)
           end
       end
   end
```

end

APPENDIX II – DATA TABLES

TABLE III – INDUCED GAMMA POWER TABLE

A	• P	20	4	25	124	34	122	11	53	87	59	92	68	60	86	58	97	72	77
Anger-Disgust /	-	F1_AD	F2_AD	F3_AD	F4_AD	F7_AD	F8_AD	Fz_AD	P3_AD	P4_AD	P7_AD	P8_AD	POz_AD	PO3_AD	PO4_AD	P9_AD	P10_AD	01_AD	O2_AD
AD_1'	ADHD	1.619	1.898	1.463	2.205	2.455	3.935	2.076	0.638	0.986	2.094	1.668	1.823	1.643	2.409	2.099	2.448	2.862	2.998
AD_2'	ADHD	0.755	0.975	1.867	1.147	3.061	0.771	1.092	2.324	1.795	3.736	4.787	2.602	3.748	3.053	4.090	2.849	6.195	5.921
AD_3'	ADHD	3.356	1.922	2.442	1.832	2.212	3.026	3.122	0.093	0.342	0.391	1.662	0.352	0.985	0.392	0.376	1.240	0.393	0.327
AD_4'	ADHD	1.238	2.575	2.762				1.544	1.412	1.385	5.898	5.623	3.282	2.457	4.266		5.976	4.680	
AD_5'	ADHD	0.443	2.323	0.803	2.116	1.666	2.480	0.205	1.858	6.800	2.449	4.910	2.751	2.429	1.436	2.435	2.494	5.856	6.377
AD_6'	ADHD	1.564	2.246	1.804	3.115	2.997		1.617	2.807	1.480	2.070	1.631	2.332	4.873	5.236	1.805	1.568	2.616	2.460
AD_7'	ADHD ADHD	4.245	3.033 1.861	4.091	4 700	2.118	2 207	1.983 1.957	1.620	4.756	3.032	6.575	5.341	3.116 1.800	4.866	3.037 2.046	4.465	4.214	4.688
AD_8' AD 9'	ADHD	1.315 2.641	2.867	1.593 2.549	1.739 1.859	2.007	2.387	1.957	2.571 0.970	2.856 2.195	1.856 5.154	4.401 2.458	0.766 5.237	4.051	2.786	4.212	4.465 2.712	0.506	3.124
AD_9 AS_1'	Autism	2.041	2.807	2.549	1.859	2.337			1.578	2.195	1.357	4.485	1.349	1.355	4.086	2.567	2.712	4.225	3.124
A5_1 AS 2'	Autism	1.468	1.324	1.048	1.168	1.800	1.843	1.340	0.788	1.144	2.312	0.931	0.442	1.063	2.638	1.435	0.855	1.355	1.291
A5_2 AS 3'	Autism	0.980	0.065	1.203	0.499	1.228	1.943	0.786	1.053	0.187	1.850	1.979	0.235	1.174	1.301	2.931	1.236	2.697	4.139
AS 4'	Autism	7.002	5.736	6.608	0.455	5.301	1.520	6.075	0.593	0.107	0.520	0.139	0.380	0.566	1.143	0.578	0.435	0.375	0.319
AS 5'	Autism	2.235	2.555	1.940	2.728	3.103	2.945	3.692	2.524	1.677		2.960	2.251	3.933	3.199		2.596		
AS 6'	Autism	1.383	2.673	2.765	2.1.20	6.538		1.857	1.578	2.364	3.076	3.190	1.145	3.404	3.956	5.576	3.134	4.018	5.869
AS_7'	Autism	2.059	3.782		4.719		3.668	3.710	3.690		3.431		2.303	3.836		3.020		6.807	6.292
AS 8'	Autism	2.614	3.037	3.154	3.868		6.191	2.246	1.092	0.461	1.292	1.937	0.865	1.523	1.426	1.246	2.057	0.921	1.166
AS_9'	Autism	0.623	1.047	0.925	1.165	0.844	1.159	1.128	1.058	0.635	2.341	0.992	2.954	2.370	0.966	1.071	0.954	3.435	3.528
AS_10'	Autism	1.208	0.865	1.323	1.104	3.253	5.675	1.307	3.088	0.807	3.012	3.089	4.192	4.084	1.318	3.037	1.830	5.100	6.219
C_1'	Control	0.411	0.317	0.563		2.715	2.980	0.049	1.022	1.976	7.562	3.250	5.550	7.162	2.050	6.749	3.775		
C_2'	Control	0.519	0.418	2.832	2.095		4.053	0.885	0.821	1.958	2.710		1.736	2.630	3.717	3.326	4.658		3.568
C_3'	Control	1.224	2.783	1.403	4.541	1.409		1.045	0.279	0.278	0.354	2.360	0.102	0.259	2.801	0.392	2.671	0.245	0.121
C_4'	Control	1.116	1.283	1.694	1.619	1.956	2.812	0.904	0.802	1.168	2.835	1.646	1.118	1.369	3.333	2.733	4.320	3.403	3.923
C_5'	Control	0.934	1.090	0.875	1.631	1.022	1.840	1.608	0.482	1.389	1.301	2.527	2.333	1.073	2.037	1.414	3.176	1.936	2.191
C_6'	Control	1.175	1.558	1.184	1.972	4.148	4.331	1.316	1.626	1.647	3.189	4.978	2.522	2.641	2.082	2.079	1.895	6.849	7.098
C_7'	Control	0.775	1.476	0.919	4.543	1.291		0.976	0.545	0.601	0.495	2.307	0.186	0.509	0.196	0.777	2.423	0.371	0.237
C_8'	Control	3.010	1.341	3.182	1.315	3.452	4.774	1.153	1.060	0.318	0.749	1.357	0.342	0.776	0.447	0.916	5.033	0.648	0.619
C_9'	Control	2.303	4.234	3.669	4.223	4.862		2.376	1.509	0.029	2.225	2.506	0.776	2.217	0.028		3.532	1.026	1.195
C_10'	Control	2.149	0.686	1.696	0.818	4.165	4.048	2.822	0.357	0.576	0.745	1.775	0.046	0.403	0.582	1.371	2.632	0.846	0.777
C_11'	Control	2.722	3.348	3.005	3.264	4.399	4.878	3.658	5.951	3.882	7.471	4.314	6.576		3.692		6.796		
C_11' Emotion All A		20	4	25	124	34	122	11	53	87	59	92	68	60	86	58	97	72	77
Emotion All A	ligned	20 F1_EM	4 F2_EM	25 F3_EM	124 F4_EM	34 F7_EM	122 F8_EM	11 Fz_EM	53 P3_EM	87 P4_EM	59 P7_EM	92 P8_EM	68 POz_EM	PO3_EM	86 PO4_EM	P9_EM	97 P10_EM	O1_EM	O2_EM
Emotion All A	ligned ADHD	20 F1_EM 1.634	4 F2_EM 1.895	25 F3_EM 1.529	124 F4_EM 2.080	34 F7_EM 2.788	122 F8_EM 3.333	11 Fz_EM 1.930	53 P3_EM 0.699	87 P4_EM 1.290	59 P7_EM 1.941	92 P8_EM 2.026	68 POz_EM 1.732	PO3_EM 1.533	86 PO4_EM 2.957	P9_EM 2.063	97 P10_EM 2.270		02_EM 3.213
Emotion All Al AD_1' AD_2'	ligned ADHD ADHD	20 F1_EM 1.634 0.585	4 F2_EM 1.895 1.079	25 F3_EM 1.529 1.378	124 F4_EM 2.080 1.242	34 F7_EM 2.788 1.728	122 F8_EM 3.333 0.726	11 Fz_EM 1.930 1.095	53 P3_EM 0.699 2.181	87 P4_EM 1.290 0.958	59 P7_EM 1.941 3.544	92 P8_EM 2.026 3.251	68 POz_EM 1.732 2.870	PO3_EM 1.533 3.632	86 PO4_EM 2.957 1.772	P9_EM 2.063 4.106	97 P10_EM 2.270 2.011	01_EM 2.868	O2_EM 3.213 4.969
Emotion All Al AD_1' AD_2' AD_3'	ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825	4 F2_EM 1.895 1.079 2.148	25 F3_EM 1.529 1.378 2.479	124 F4_EM 2.080 1.242 2.312	34 F7_EM 2.788	122 F8_EM 3.333	11 Fz_EM 1.930 1.095 4.248	53 P3_EM 0.699 2.181 0.146	87 P4_EM 1.290 0.958 0.346	59 P7_EM 1.941 3.544 0.474	92 P8_EM 2.026 3.251 1.597	68 POz_EM 1.732 2.870 0.424	PO3_EM 1.533 3.632 1.091	86 PO4_EM 2.957 1.772 0.344	P9_EM 2.063 4.106 0.566	97 P10_EM 2.270 2.011 1.190	01_EM 2.868 0.434	02_EM 3.213
Emotion All Al AD_1' AD_2'	ligned ADHD ADHD	20 F1_EM 1.634 0.585	4 F2_EM 1.895 1.079	25 F3_EM 1.529 1.378	124 F4_EM 2.080 1.242	34 F7_EM 2.788 1.728	122 F8_EM 3.333 0.726	11 Fz_EM 1.930 1.095	53 P3_EM 0.699 2.181	87 P4_EM 1.290 0.958	59 P7_EM 1.941 3.544	92 P8_EM 2.026 3.251	68 POz_EM 1.732 2.870	PO3_EM 1.533 3.632	86 PO4_EM 2.957 1.772	P9_EM 2.063 4.106	97 P10_EM 2.270 2.011	01_EM 2.868	O2_EM 3.213 4.969
Emotion All A AD_1' AD_2' AD_3' AD_4'	ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083	4 F2_EM 1.895 1.079 2.148 1.113	25 F3_EM 1.529 1.378 2.479 2.005	124 F4_EM 2.080 1.242 2.312 4.567	34 F7_EM 2.788 1.728 2.044	122 F8_EM 3.333 0.726 4.258	11 Fz_EM 1.930 1.095 4.248 1.020	53 P3_EM 0.699 2.181 0.146 1.579	87 P4_EM 1.290 0.958 0.346 1.373	59 P7_EM 1.941 3.544 0.474 4.261	92 P8_EM 2.026 3.251 1.597 4.851	68 POz_EM 1.732 2.870 0.424 2.391	PO3_EM 1.533 3.632 1.091 2.013	86 PO4_EM 2.957 1.772 0.344 4.070	P9_EM 2.063 4.106 0.566 4.813	97 P10_EM 2.270 2.011 1.190 5.914	01_EM 2.868 0.434 3.594	02_EM 3.213 4.969 0.373
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_5'	ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458	4 F2_EM 1.895 1.079 2.148 1.113 1.997	25 F3_EM 1.529 1.378 2.479 2.005 0.696	124 F4_EM 2.080 1.242 2.312 4.567 1.730	34 F7_EM 2.788 1.728 2.044 1.640	122 F8_EM 3.333 0.726 4.258 2.413	11 Fz_EM 1.930 1.095 4.248 1.020 0.223	53 P3_EM 0.699 2.181 0.146 1.579 2.080	87 P4_EM 1.290 0.958 0.346 1.373 3.658	59 P7_EM 1.941 3.544 0.474 4.261 2.644	92 P8_EM 2.026 3.251 1.597 4.851 4.510	68 POz_EM 1.732 2.870 0.424 2.391 2.030	PO3_EM 1.533 3.632 1.091 2.013 2.482	86 PO4_EM 2.957 1.772 0.344 4.070 1.286	P9_EM 2.063 4.106 0.566 4.813 1.963	97 P10_EM 2.270 2.011 1.190 5.914 2.681	01_EM 2.868 0.434 3.594 4.969	02_EM 3.213 4.969 0.373 5.263
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_5' AD_6'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669	34 F7_EM 2.788 1.728 2.044 1.640 3.247	122 F8_EM 3.333 0.726 4.258 2.413 5.172	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397	97 P10_EM 2.270 2.011 1.190 5.914 2.681	01_EM 2.868 0.434 3.594 4.969 2.945	O2_EM 3.213 4.969 0.373 5.263 4.014
Emotion All Al AD_1' AD_2' AD_3' AD_3' AD_4' AD_5' AD_6' AD_7'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.759	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021	01_EM 2.868 0.434 3.594 4.969 2.945 3.406	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_5' AD_5' AD_5' AD_5' AD_6'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.759 4.445	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585	01_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_5' AD_7' AD_8' AD_9' AS_1' AS_2'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 4 1.127	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030	34 F7_EM 2.788 1.728 2.044 	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.487	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020	92 98_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.759 4.445 2.405 3.008 1.570	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.901 0.844	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906	O1_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_3'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 2.870 1.298 0.095	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 4 1.127 1.224	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.686 1.830	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626 0.956	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.652 1.644 2.791 1.620 1.171 0.217	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.759 4.445 3.008 1.570 2.238	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.901 0.844 0.282	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.601 1.470	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.061 4.585 2.469 0.906 1.528	O1_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_5' AD_5' AD_5' AD_7' AD_9' AS_1' AS_2' AS_3' AS_4'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.460 1.127 1.224 4.345	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.487 0.837 4.179	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.074	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.759 4.445 2.405 3.008 1.570 2.238 0.101	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 0.424 0.901 0.844 0.282 0.211	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 1.031 2.614 1.113 0.428	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906 1.528 0.255	01_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_6' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_2' AS_3' AS_5'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.127 1.127 1.224 4.345 2.074	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.405 2.121 1.503 2.503 3.697	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 	53 P3_EM 0.699 2.181 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426 1.716	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.71 0.217 0.074 1.604	59 P7_EM 1.941 3.544 0.474 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784	92 P8_EM 2.026 3.251 1.597 4.8510 2.230 4.759 4.445 2.405 3.008 1.570 2.2405 3.008 1.570 2.238 0.101 3.661	68 POz_EM 1.732 2.870 0.424 2.391 2.391 2.391 2.391 0.301 0.537 4.216 0.901 0.844 0.282 0.211 2.246	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.611 0.428 3.141	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531 2.950	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391 4.965	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906 1.528 0.255 1.732	01_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_6' AD_7' AD_6' AD_9' AS_1' AS_2' AS_3' AS_5' AS_6'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.088	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715 2.586	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 2.464 1.127 1.224 4.345 2.074 2.114	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.769	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.405 7 2.121 1.503 2.503 3.697 4.258	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437 3.759	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.686 1.830 1.487 0.837 4.179 3.492 1.896	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426 0.956 0.426 1.716 1.404	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.074	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.759 4.445 2.405 3.008 1.570 2.238 0.101	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.901 0.844 0.282 0.211	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 1.031 2.614 1.113 0.428	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906 1.528 0.255 1.732 3.400	01_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_5' AD_5' AD_5' AD_7' AD_9' AS_1' AS_2' AS_3' AS_4' AS_5' AS_6' AS_7'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 1.454 1.454 1.500 0.901 4.158 3.746 1.088 0.921	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 2.870 1.298 0.095 4.153 3.715 2.586 2.005	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.127 1.224 4.345 2.074 2.114 2.114	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.769 3.161	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.405 2.121 1.503 2.503 3.697	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.487 0.837 4.179 3.492 1.896 3.210	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426 1.716 1.404 4.462	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.074 1.604 2.731	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784 3.194	92 98_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.759 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.661 3.612	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.901 0.844 0.282 0.211 2.246 1.326	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.141 3.921	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.661 1.470 1.531 2.950 4.030	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391 4.965 5.05	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906 1.528 0.906 1.528 0.255 1.732 3.400 7.244	01_EM 2.868 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.298	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_7' AD_6' AD_7' AD_8' AD_9' AS_1' AS_1' AS_2' AS_3' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.885 1.083 0.458 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.005 2.926	25 F3_EM 1.529 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.127 1.224 4.345 2.074 2.124 2.983 3.330	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.769 3.161 4.221	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503 3.697 4.258 4.606	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437 3.759 5.143	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.880 1.880 1.880 1.880 1.880 1.880 1.880 1.880 1.880 1.880 1.880 1.880 1.880 1.893 1.930 1.995 1.895 1.890 1.895 1.890 1.895 1.890 1.895 1.890 1.895 1.890 1.895 1.890 1.895 1.890 1.895 1.890 1.895 1.890 1.895 1.890 1.895	53 P3_EM 0.699 2.181 1.579 2.080 2.607 1.425 2.171 1.425 2.171 1.425 2.171 1.425 2.171 1.426 0.956 0.956 0.956 0.426 1.716 1.404 4.462 1.198	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.074 1.604 2.731 0.567	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784 3.194 1.757	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.445 2.405 3.008 1.570 2.2405 3.008 1.570 2.238 0.101 3.661 3.661 3.661 2.239	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.537 4.216 0.901 0.844 0.282 0.211 2.246 1.350	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.141 3.921 2.433	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531 2.950 4.030 1.566	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391 4.965 6.05 0.391 4.965 1.776	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.681 2.469 0.906 1.528 0.255 1.732 3.400 7.244 3.234	01_EM 2.868 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.898 4.898 4.898 4.898	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 6.419 1.766
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_6' AD_7' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_3' AS_5' AS_5' AS_6' AS_7' AS_8' AS_9'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.688 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.505	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 2.880 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.926 1.059	25 F3_EM 1.529 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.127 1.224 4.345 2.074 2.114 2.983 3.330 0.788	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.769 3.161 4.221 1.169	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503 2.503 3.697 4.258 4.606	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.590 3.696 1.854 2.437 3.759 5.143	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.886 1.880 1.887 4.179 3.492 1.896 3.210 2.282 1.086	53 P3_EM 0.699 2.181 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426 1.716 1.404 4.462 1.198 1.117	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.074 1.604 2.731 0.567 0.567 0.738	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784 3.194	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.760 3.760 3.7700 3.7700 3.7700 3.7700 3.7700 3.7700 3.7700	68 POz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.901 0.844 0.282 0.211 2.246 1.350 	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.141 3.921 2.433 2.511	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.531 2.950 4.030 1.566 1.122	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.386 1.323 3.940 2.578 2.186 2.380 0.391 4.965 6.005 	97 P10_EM 2.270 2.011 1.190 5.914 2.621 4.585 2.469 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126	01_EM 2.868 0.434 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.298 4.298 1.896 3.206	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 0.161 0.161 1.766 3.430
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_6' AD_7' AD_7' AD_8' AD_9' AS_1' AS_2' AS_2' AS_3' AS_5'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.505 1.345	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.905 1.059 0.856	25 F3_EM 1.529 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.471 2.464 1.127 1.224 4.345 2.074 2.114 2.114 2.983 3.330 0.788	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.769 3.161 4.221	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503 3.697 4.258 4.606 0.798 2.676	122 F8_EM 3.333 0.726 4.258 2.413 3.590 3.696 1.854 2.437 1.854 2.437 3.759 3.759 5.143 1.143 3.698	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.686 1.830 1.687 0.837 4.179 3.492 1.896 3.210 2.282 1.086 1.222	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 0.626 0.956 0.426 1.716 1.404 4.462 1.117 3.402	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.774 1.604 2.731 0.567 0.738 0.955	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784 3.194 1.757 2.437	92 P8_EM 2.026 3.251 1.597 4.851 4.510 4.759 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.612 2.239 1.170 3.816	68 PO2_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.901 0.844 0.282 0.211 2.246 1.350 2.185 3.173 4.474	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.031 2.614 3.041 3.041 3.921 2.433 2.511 6.901	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 1.227 3.648 2.495 3.061 1.470 1.531 2.950 4.030 4.030 1.566 1.122 1.564	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391 4.965 6.005 1.776 1.084 3.876	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.681 2.681 2.621 4.585 2.469 0.906 1.528 0.906 1.528 0.906 1.528 0.906 1.732 1.732 3.400 7.244 3.244 1.126 2.659	01_EM 2.868 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.898 4.898 4.898 4.898	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 6.419 1.766
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_7' AD_6' AD_9' AS_1' AS_2' AS_3' AS_5'	Igned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.505 1.345 0.445	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.005 2.005 2.026 0.596 0.296	25 F3_EM 1.529 2.479 2.005 0.696 1.960 3.549 1.471 2.464 7 1.224 4.345 2.074 2.124 4.345 2.074 2.983 3.330 0.788 1.473 0.672	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 2.257 1.030 0.819 2.769 3.161 4.221 1.169 1.073	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.405 2.405 2.503 3.697 4.258 4.506 0.798 2.676 2.463	122 F8_EM 3.333 0.726 4.258 2.413 3.690 3.696 1.854 2.437 5.143 5.143 3.698 2.447	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.686 1.830 1.487 0.837 4.179 3.492 1.896 3.210 2.282 1.086 1.222 0.050	53 P3_EM 0.699 2.181 0.146 1.579 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426 1.716 1.404 4.462 1.198 1.117 3.402 1.043	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.624 2.791 1.644 2.791 1.604 2.731 0.074 1.604 2.731 0.074 1.604 2.735 1.906	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784 3.194 1.757 2.437 7.804	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.760 3.760 3.7700 3.7700 3.7700 3.7700 3.7700 3.7700 3.7700	68 POZ_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.901 0.844 0.282 0.211 2.246 1.350 7.2185 3.173 4.474	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.921 2.433 2.511 6.901 6.380	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.661 1.531 2.950 4.030 1.566 1.122 1.674 1.991	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.380 0.391 4.965 6.005 1.776 1.076 1.776 1.877 3.876 7.290	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.021 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126 2.659 3.258	01_EM 2.868 0.434 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.298 4.298 1.896 3.206	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.525 1.515 1.384 0.161 0.161 0.161 1.766 3.430 5.920
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_5' AD_6' AD_7' AD_9' AS_1' AS_2' AS_3' AS_6' AS_6' AS_7' AS_8' AS_6' AS_7' AS_8' AS_6' AS_7' AS_8' AS_6' AS_7' AS_7' AS_6' AS_7'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 T 1.668 T 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.505 1.345 0.445 0.505	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.926 1.059 0.856 0.296 0.311	25 F3_EM 1.529 1.378 2.479 2.005 0.696 3.549 1.471 2.46 4.345 2.074 2.114 4.345 2.074 2.114 2.983 3.330 0.788 1.473 0.672 3.326	124 F4_EM 2.080 1.242 2.312 4.567 1.730 4.085 2.159 2.257 1.030 0.819 2.769 3.161 4.221 1.169 1.073 1.928	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503 2.503 4.558 4.606 0.798 2.676 2.463 5.706	122 F8_EM 3.333 0.726 4.258 2.413 3.590 3.696 1.854 2.437 1.854 2.437 3.759 3.759 5.143 1.143 3.698	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.686 1.830 1.686 1.830 1.487 0.837 4.179 3.492 1.896 3.210 2.282 1.086 1.222 0.055 0.670	53 P3_EM 0.699 2.181 0.146 1.579 2.607 1.425 2.1711 1.591 0.897 1.626 0.956 0.426 1.716 1.404 4.462 1.198 1.117 3.402 1.043 0.855	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.074 1.604 2.731 0.074 0.567 0.738 0.955 1.906 1.703	59 P7_EM 1.941 3.544 0.474 4.261 2.640 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784 3.194 	92 P8_EM 2.026 3.251 1.597 4.851 2.230 4.759 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.661 3.661 3.661 3.612 1.170 3.816 3.233	68 PO2_EM 1.732 2.870 0.424 2.391 2.576 4.446 0.537 4.216 0.901 0.844 0.282 0.211 2.246 1.350 7 2.185 3.173 4.474 5.731 1.759	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.141 3.921 2.433 2.511 6.380 3.156	86 P04_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.661 1.531 2.950 4.030 1.566 1.122 1.674 1.991 3.796	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.578 2.186 2.380 0.391 4.965 6.005 7.290 3.616	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906 1.528 0.906 1.528 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126 2.659 3.228 5.416	01_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.298 1.896 3.206 4.052	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 1.766 3.430 5.920 3.729
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_2' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.008 0.921 3.245 0.505 1.345 0.445 0.505 1.328	4 1895 1.079 2.148 1.13 1.997 2.225 2.769 2.080 2.080 2.080 2.080 2.080 2.080 2.080 2.095 4.153 3.715 2.586 2.005 2.258 2.005 2.586 0.059 0.856 0.296 0.311 1.976	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 7 1.127 1.224 4.345 2.074 2.114 2.114 2.983 3.330 0.788 3.330 0.788 3.473 0.672 3.326	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.769 3.161 4.221 1.169 1.073 1.073 1.928 2.970	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503 3.697 4.258 4.606 0.798 2.676 2.463 5.766 1.447	122 F8 EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437 3.759 5.143 1.143 3.698 2.447 3.238	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.686 1.830 1.487 0.837 4.179 3.492 1.886 3.210 2.282 1.086 1.222 0.050 0.670 1.059	53 P3 EM 0.699 2.181 0.146 1.579 2.607 1.425 2.171 1.591 0.897 1.626 0.426 1.716 1.404 4.462 1.198 1.117 3.402 0.8351	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.711 0.217 0.074 1.604 2.731 0.074 1.604 2.731 0.657 0.738 0.955 1.906 1.703 0.329	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.634 1.167 1.071 3.020 1.944 0.357 4.784 3.194 1.757 2.437 7.804 3.193 0.440	92 P8_EM 2.026 3.251 1.597 4.8510 2.230 4.759 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.612 3.61	68 POZ_EM 1.732 2.870 0.424 2.391 2.576 4.446 0.537 4.216 0.537 4.216 0.537 4.216 0.537 4.216 0.537 4.216 0.537 4.216 0.547 1.350 1.350 1.350 1.350 1.350 1.350 1.350 1.350 1.351 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.755 1.	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.031 2.614 1.113 0.428 3.141 3.921 2.433 2.511 6.901 6.380 3.156 0.408	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531 2.950 4.030 1.561 1.122 1.564 1.122 1.674 1.991 3.796	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.578 2.186 2.580 0.391 4.965 6.005 1.776 1.084 3.876 7.290 3.616 0.511	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126 2.659 3.258 5.416 2.862	0.1_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.295	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 1.766 4.19 1.766 3.430 5.920 3.729 0.173
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_6' AD_7' AD_7' AD_9' AS_1' AS_2' AS_3' AS_5' AS_6' AS_7' AS_8' AS_6' AS_7' AS_8' AS_10' C_1' C_2' C_3' C_4'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.921 3.245 0.921 3.245 0.450 1.345 0.450 1.345 1.345 0.450 1.326 1.326 1.326 1.326 1.336	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.926 1.059 0.855 2.926 0.296 0.311 1.976 1.929	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.471 2.464 1.471 2.464 2.074 2.114 2.074 2.114 2.074 2.114 2.074 2.114 2.983 3.330 0.672 3.326 1.400 1.563	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.257 1.030 0.819 1.073 1.078 3.161 4.221 1.169 1.073 1.079 1.075 1.07	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503 3.697 4.258 4.606 0.798 2.676 2.463 5.706 1.474	122 F8.EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437 3.759 5.143 5.143 1.143 3.698 2.447 3.288 2.447	11 Fz_EM 1.930 1.095 4.248 1.680 1.680 1.680 1.680 1.680 1.680 1.680 1.830 1.680 1.830 1.680 1.830 1.680 1.837 4.179 3.492 1.886 3.210 2.282 1.026 1.026 1.025 0.650 0.650 0.650 0.659 0.895	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.1711 1.591 0.897 1.626 0.426 1.716 1.445 1.198 1.117 3.402 0.435 0.391 1.043 0.855 0.391 1.329	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.620 1.711 0.217 0.074 1.604 2.731 0.674 0.567 0.567 0.567 0.555 1.906 1.703 0.329 1.659	59 PZ_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.644 1.167 1.071 3.020 1.944 0.357 4.784 3.194 1.757 2.437 7.804 3.193 0.400 2.541	92 P8_EM 2.026 3.251 1.597 4.851 2.230 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.661 3.661 3.661 3.623 2.239 1.170 3.816 3.293 2.2756 1.600	68 PD2_EM 1.732 2.870 2.421 2.391 2.300 2.576 4.446 0.537 0.444 0.537 0.211 0.844 0.221 1.350 2.246 1.350 2.185 3.173 4.474 5.731 1.759 0.1093	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.141 3.921 C.433 2.511 6.901 6.380 3.1264	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531 2.950 4.030 7.556 1.122 1.656 1.122 1.656 1.122 1.656 1.122 1.656 1.122 1.656 1.122	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391 4.965 6.005 1.776 1.876 3.876 7.290 3.616 0.511 2.576	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.681 2.681 2.469 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126 2.659 3.258 5.416 2.853 3.537	0.1_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.298 1.896 3.206 4.052 4.052 1.896 3.206 4.052 1.896	02_EM 3.213 4.969 0.373
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_2' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.008 0.921 3.245 0.505 1.345 0.445 0.505 1.328	4 F2_EM 1.895 1.079 2.148 1.13 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.586 2.005 9.0856 0.296 0.311 1.976	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 7 1.127 1.224 4.345 2.074 2.114 2.114 2.983 3.330 0.788 3.330 0.788 3.473 0.672 3.326	124 F4_EM 2.080 1.242 2.312 4.567 1.730 3.669 4.085 2.159 2.257 1.030 0.819 2.769 3.161 4.221 1.169 1.073 1.073 1.928 2.970	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.121 1.503 2.503 3.697 4.258 4.606 0.798 2.676 2.463 5.766 1.447	122 F8 EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437 3.759 5.143 1.143 3.698 2.447 3.238	11 Fz_EM 1.930 1.095 4.248 1.020 0.223 1.680 1.686 1.830 1.686 1.830 1.487 0.837 4.179 3.492 1.886 3.210 2.282 1.086 1.222 0.050 0.670 1.059	53 P3 EM 0.699 2.181 0.146 1.579 2.607 1.425 2.171 1.591 0.897 1.626 0.426 1.716 1.404 4.462 1.198 1.117 3.402 0.8351	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.711 0.217 0.074 1.604 2.731 0.074 1.604 2.731 0.657 0.738 0.955 1.906 1.703 0.329	59 P7_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.634 1.167 1.071 3.020 1.944 0.357 4.784 3.194 1.757 2.437 7.804 3.193 0.440	92 P8_EM 2.026 3.251 1.597 4.8510 2.230 4.510 2.230 4.510 2.230 4.510 2.230 1.570 3.008 1.570 3.661 3.612 3.61	68 POZ_EM 1.732 2.870 0.424 2.391 2.576 4.446 0.537 4.216 0.537 4.216 0.537 4.216 0.537 4.216 0.537 4.216 0.537 4.216 0.547 1.350 1.350 1.350 1.350 1.350 1.350 1.350 1.350 1.351 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.753 1.755 1.	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.031 2.614 1.113 0.428 3.141 3.921 2.433 2.511 6.901 6.380 3.156 0.408	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531 2.950 4.030 1.561 1.122 1.564 1.122 1.674 1.991 3.796	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 2.578 2.186 2.580 0.391 4.965 6.005 1.776 1.084 3.876 7.290 3.616 0.511	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.021 4.585 2.469 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126 2.659 3.258 5.416 2.862	0.1_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.398 4.298 4.298 1.896 3.206 4.052 0.374	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 1.766 4.19 1.766 3.430 5.920 3.729 0.173
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_6' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_2' AS_3' AS_4' AS_5'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.505 1.345 0.445 0.505 0.510 1.328 1.036 0.946	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.255 2.080 2.870 1.298 0.095 4.153 3.715 2.926 1.059 0.856 0.296 0.311 1.976 1.976 1.992 1.092	25 F3_EM 1.529 2.005 1.960 3.549 1.471 2.464 T 1.127 1.224 4.345 2.074 2.114 2.983 3.330 0.788 1.473 0.672 3.326 1.400 1.563 3.326	124 F4_EM 2.080 1.242 2.312 4.567 1.730 2.257 1.030 0.819 2.769 3.161 4.221 1.169 1.073 1.928 2.970 1.575	34 F7_EM 2.788 2.784 2.044 1.640 3.247 1.703 1.885 2.405 2.405 2.405 2.121 1.503 2.503 3.697 4.258 4.606 0.798 2.676 2.463 5.706 1.447 1.734 1.103	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.990 3.696 1.854 2.437 5.143 5.143 5.172 3.696 1.143 3.698 2.447 3.238 2.443 1.143 3.698 2.441 3.238	11 Fz_EM 1.930 0.223 1.680 1.680 1.680 1.680 1.680 1.680 1.680 1.680 1.830 1.680 1.830 1.830 1.830 1.837 1.487 0.837 1.489 0.223 0.499 1.896 0.223 0.499 1.896 0.223 0.4990 0.4990000000000	53 P3_EM 0.699 2.181 0.146 1.579 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426 1.716 1.404 4.462 1.198 1.117 3.402 0.855 0.391 1.329 0.568	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.217 0.217 0.217 0.217 0.217 0.217 0.217 0.217 0.217 0.217 0.557 0.555 1.906 1.703 0.329 1.059 0.859 0.859	59 PZ_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 1.071 3.020 1.944 0.357 4.784 3.194 1.757 2.437 7.804 3.193 0.4400 2.541	92 P8_EM 2.026 3.251 1.597 4.8510 2.230 4.759 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.612 2.239 1.170 3.816 3.293 2.756 1.600 2.528	68 PD2_EM 1.732 2.870 2.424 2.391 2.576 4.446 0.537 4.216 0.901 0.844 0.282 0.211 2.246 1.350 2.185 3.173 4.474 5.731 1.759 0.149 1.033 2.373	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 1.031 2.612 4.401 1.031 2.614 1.113 0.428 3.141 3.921 2.433 2.511 6.901 6.380 3.156 0.408 1.134	86 PO4_EM 2.957 1.772 1.286 5.511 1.227 3.648 2.495 3.061 1.470 1.531 2.950 4.030 4.030 4.030 4.030 1.566 1.122 1.566 1.122 1.566 1.122 1.574 1.991 3.796 2.841 3.343 2.191	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.186 0.391 4.965 2.380 0.391 1.776 1.084 3.876 7.290 3.616 0.511 2.576 1.457	97 P10_EM 2.270 2.011 1.190 5.914 4.585 2.469 4.585 2.469 1.528 0.255 1.732 3.036 1.528 0.255 1.732 3.234 1.126 2.659 3.238 5.416 2.862 3.337	0.434 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.298 1.896 4.298 1.896 4.205 2.206 4.052 0.374 3.468	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 9.3525 1.515 1.384 0.161 5.920 6.419 1.766 3.430 5.920 5.920 3.729 0.173 3.928 2.188
Emotion All Al AD_1' AD_2' AD_3' AD_4' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_3' AS_5' AS_5' AS_5' AS_5' AS_5' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_6' AS_7' AS_7' AS_6' AS_7' AS_6' AS_7' AS_7' AS_6' AS_7'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.505 0.451 1.325 1.345 0.452 0.453 1.345 0.453 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.454 1.500 1.502 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.502 1.500 1.500 1.500 1.500 1.500 1.500 1.502 1.500 1.500 1.500 1.502 1.500 1.500 1.500 1.500 1.502 1.500	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 1.298 0.095 4.153 3.715 2.586 2.926 1.055 0.856 0.856 0.856 0.856 0.856 0.311 1.976 1.922 1.096 1.461	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.127 1.224 4.345 2.074 2.114 2.983 3.330 0.788 3.330 0.783 3.326 1.473 0.672 3.326 1.400 1.563 0.834 1.435	124 F4_EM 2.080 1.242 2.312 4.557 1.730 3.669 4.085 2.159 2.257 1.030 0.819 	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.405 2.121 1.503 3.697 4.258 4.506 7.0798 2.676 2.463 5.706 1.447 1.734 1.033 3.362	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.696 1.854 2.437 3.759 5.143 3.698 2.447 3.238 2.447 3.238	11 Fz_EM 1.930 1.095 4.248 1.095 4.248 1.095 1.686 1.880 1.686 1.830 1.487 0.837 4.179 3.492 1.896 3.210 2.282 1.086 1.222 0.0550 0.670 1.055 0.895 1.664 1.215	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 1.626 0.956 0.426 1.716 1.404 4.462 1.198 1.1198 1.1198 1.1193 0.4326 0.391 1.329 0.5684 1.564	87 P4_EM 1.290 0.958 0.346 1.373 3.658 2.020 3.672 1.644 2.791 1.620 1.171 0.624 1.620 1.171 0.674 1.604 2.731 0.657 0.657 0.567 0.567 0.567 0.575 1.906 1.703 0.559 1.059 0.859 0.859 2.249	59 PZ_EM 1.941 3.544 0.474 4.261 2.644 2.121 2.830 1.167 0.071 3.020 1.944 0.357 4.784 3.194 7.804 3.193 0.440 2.541 1.3351	92 P8_EM 2.026 3.251 1.597 4.851 4.510 2.230 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.661 3.661 3.661 3.816 3.293 2.239 1.170 2.239 1.570 2.239 1.570 2.526 5.057	68 POZ_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.216 0.537 4.246 0.311 2.246 1.350 2.185 3.173 4.474 5.731 1.759 0.149 1.093 2.373 1.760	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.921 2.531 2.511 6.901 6.380 3.156 0.408 1.244 1.342	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.061 1.470 1.531 2.950 4.030 1.531 2.950 4.030 1.531 1.531 1.531 2.950 4.030 1.531 1.531 2.950 4.030 1.531 1.531 2.950 4.030 1.531 1.531 2.950 1.532 1.531 1.531 2.950 1.531 1.531 2.950 1.531 1.531 2.957 1.531 1.531 2.957 1.531 1.531 1.531 2.957 1.531 1.531 1.531 2.957 1.531 1.531 1.531 2.957 1.5311 1.5311 1.5	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.836 1.323 3.940 2.578 2.380 0.391 4.965 6.005 1.076 1.076 1.084 3.876 7.290 3.616 0.511 2.576 1.457 2.438	97 P10_EM 2.270 2.011 1.190 5.914 2.681 2.681 2.621 4.585 2.469 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126 2.659 3.258 5.416 2.659 3.258 5.416 2.862 3.537 3.034 1.917	0.434 2.868 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.298 1.996 3.206 4.052 7 0.374 3.468 2.043 3.695	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 1.766 3.430 5.920 1.773 0.173 3.729 0.173 3.729 0.173
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_6' AD_7' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_3' AS_4' AS_5' AS_5' AS_6' AS_7' AS_8' AS_9' AS_9' AS_9' C_1' C_2' C_2' C_5' C_6' C_7'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 0.585 2.825 1.083 0.458 1.668 1.454 2.267 1.500 0.901 4.158 3.746 1.088 0.921 3.245 0.505 0.451 1.325 1.345 0.452 0.453 1.345 0.453 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.345 0.458 1.454 1.500 1.502 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.502 1.500 1.500 1.500 1.500 1.500 1.500 1.502 1.500 1.500 1.500 1.502 1.500 1.500 1.500 1.500 1.502 1.500	4 F2_EM 1.895 1.079 2.148 1.113 1.997 2.269 2.080 2.800 2.800 2.800 2.800 2.800 2.905 4.153 3.715 2.586 2.005 2.596 0.055 1.059 0.856 0.295 0.311 1.976 1.975 1.985 0.995 1.153 3.715 2.586 2.005 2.905 1.059 1.159 1.059 1.059 1.059 1.059 1.059 1.059 1.059 1.059 1.159 1.159 1.059 1.059 1.059 1.159 1.159 1.059 1.059 1.059 1.059 1.159 1.159 1.059 1.059 1.059 1.159 1.159 1.059 1.059 1.159 1.159 1.159 1.059 1.059 1.298 1.159 1.059 1.059 1.298 1.199 1.159 1.059 1.298 1.059 1.298 1.159 1.159 1.599 1.159 1.298 1.059 1.298 1.298 1.298 1.059 1.298 1.298 1.059 1.298 1.199 1.298 1.199 1.199 1.199 1.159 1.199	25 F3_EM 1.529 1.378 2.479 2.005 0.696 1.960 3.549 1.471 2.464 1.127 1.224 4.345 2.074 2.114 2.983 3.330 0.788 3.330 0.783 3.326 1.473 0.672 3.326 1.400 1.563 0.834 1.435	124 F4_EM2 2.080 1.242 2.312 3.639 1.730 3.639 2.257 1.730 3.64 4.085 2.257 1.300 3.64 4.085	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.405 2.121 1.503 3.697 4.258 4.506 7.0798 2.676 2.463 5.706 1.447 1.734 1.033 3.362	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.390 3.596 1.854 7.437 3.437 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 1.443 3.698 1.443 1.443 3.698 1.443 1.443 3.698 1.443 1.455 1.45	11 Fr_EM 1.930 1.095 4.248 1.020 0.223 1.686 1.830 1.686 1.830 1.686 1.830 1.686 1.837 4.179 3.492 1.886 3.210 2.282 1.086 1.222 0.050 0.670 1.055 0.664 1.215 0.835	53 P3_EM 0.699 2.181 0.146 1.579 2.080 2.607 1.425 2.171 1.591 0.897 0.626 0.426 1.716 1.404 1.402 1.117 3.402 0.855 0.3855 0.391 3.29 0.568 1.591	87 P4_EM 1.290 0.558 0.346 1.373 3.658 2.020 3.672 1.644 1.202 1.644 1.620 1.171 1.620 1.171 1.620 1.171 0.074 1.620 1.171 0.0567 0.3587 0.359 1.906 1.906 1.906 1.906 1.906 1.906 1.906 1.907 1.906 1.907 1	59 PZ_EM 1.941 3.544 0.474 4.261 2.644 2.121 1.071 3.020 1.944 0.357 4.784 3.194 0.357 4.784 3.194 0.357 7.804 3.193 0.4400 2.541 1.335 7.3410	92 P8_EM 2.026 4.851 4.510 2.230 4.4759 4.445 2.405 3.008 1.570 2.238 0.101 3.661 3.661 3.661 3.612 2.239 1.170 3.816 3.259 1.2756 1.600 2.528 5.057 1.367	68 Poz_EM 1.732 2.870 0.424 2.391 2.030 2.576 4.446 0.537 4.446 0.901 0.82 0.211 2.246 1.350 3.173 3.173 1.759 0.449 1.093 2.373 1.760 0.184	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 4.401 1.031 2.614 1.113 0.428 3.141 3.921 2.433 2.511 6.380 3.156 0.4048 1.244 1.134 3.251	86 PO4_EM 2.957 1.772 0.344 4.070 1.286 5.511 4.281 1.227 3.648 2.495 3.648 2.495 3.661 1.470 1.531 2.950 4.030 1.531 1.470 1.531 1.470 1.566 1.122 1.674 1.122 1.674 1.295 3.796 2.841 3.343 2.191 2.060 0.224	P9_EM 2.063 4.106 0.566 4.813 1.963 2.397 2.386 1.323 3.940 2.578 2.186 2.380 0.391 4.965 6.005 1.776 1.084 3.876 7.290 3.616 0.511 2.576 1.457 2.438 0.877	97 P10_EM 2.270 2.011 1.190 5.914 4.585 2.469 0.906 1.528 0.255 1.732 3.400 7.244 3.234 1.126 1.126 2.659 3.258 5.416 2.862 3.537 3.034 1.917 1.619	01_EM 2.868 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.298 4.296 4.326 4.295	02_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 0.161 0.161 0.161 0.161 0.161 0.161 0.173 3.430 5.920 0.173 3.928 2.188 6.052 0.416
Emotion All Al AD_1' AD_2' AD_3' AD_6' AD_6' AD_6' AD_7' AD_8' AD_8' AS_1' AS_1' AS_2' AS_5' AS_5' AS_5' AS_5' AS_5' AS_5' C_1' C_2' C_2' C_5' C_6' C_7' C_8'	ligned ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADH	20 F1_EM 1.634 2.825 1.083 0.458 1.668 2.267 2.267 1.500 0.901 4.158 3.746 1.088 0.901 3.746 1.088 0.921 3.245 0.505 1.345 0.445 0.505 1.345 0.445 0.505 1.345 0.445 0.505 1.345 0.445 0.505 1.345 0.445 0.505 1.345 0.506 1.345 0.506 1.345 0.505 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.506 1.345 0.566 0.566 1.345 0.5666 0.566 0.566 0.566 0.566 0.566 0.	4 F2_EM5 1.895 1.079 2.148 1.113 1.997 2.225 2.769 2.080 2.870 2.870 1.298 0.095 4.153 3.715 2.586 2.005 2.926 1.059 0.836 0.2926 0.396 0.391 1.976 1.929 1.929 1.929 1.461 1.190 1.636	25 F3_EM 1.529 1.378 2.075 2.005 0.695 1.950 3.549 1.471 1.224 4.345 2.464 7.24647 7.24647 7.24647 7.24647 7.24647 7.24647 7.24647 7.246477 7.24647776777777777777777777777777777777	124 F4_EM2 2.080 1.242 2.312 3.669 2.257 1.730 3.669 4.085 2.257 1.030 0.039 1.030 0.039 1.033 1.010 1.033 1.010 1.073 1.073 1.075 1.575 2.519 3.501	34 F7_EM 2.788 1.728 2.044 1.640 3.247 1.703 1.885 2.405 2.405 2.405 2.405 2.405 2.503 3.697 4.258 4.606 4.606 2.463 5.706 2.463 5.706 1.447 1.734 1.103 3.362 1.273	122 F8_EM 3.333 0.726 4.258 2.413 5.172 3.390 3.596 1.854 7.437 3.437 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 3.698 1.443 1.443 3.698 1.443 1.443 3.698 1.443 1.443 3.698 1.443 1.455 1.45	11 F2_EM 1.330 1.095 4.248 1.020 0.223 1.880 1.880 1.880 1.880 1.887 4.179 2.822 1.886 0.637 1.820 0.650 0.650 0.650 0.650 0.650 0.650 0.650 0.855 0.8	53 P3_EM 0.699 2.181 0.146 1.579 2.0807 1.425 2.171 1.521 1.625 0.897 1.626 0.956 0.426 1.716 1.644 4.462 1.184 0.895 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.845 0.545 1.54	87 P4_EM 1,290 0.958 0.346 2.020 1.620 1.620 1.620 1.620 1.620 1.771 0.074 1.620 0.738 0.074 1.620 0.738 0.955 1.966 0.378 0.955 0.329 0.329 0.559 0.329 0.427	59 P7_EM 1.541 3.544 0.474 2.644 2.644 2.630 1.167 1.071 3.020 1.047 1.071 3.020 1.047 1.047 1.0490 2.541 3.193 3.194 3.195 3.19	92 P8_EM 4451 3.251 1.597 4.4551 4.510 2.230 4.445 2.405 4.445 1.570 2.230 3.008 1.570 2.238 3.008 1.570 3.816 3.233 4.445 2.238 3.233 4.445 2.2528 2.528 2.528 2.528 3.5057 1.367	68 PO2_EM 1.732 2.870 0.424 2.391 2.393 2.576 0.537 4.446 0.901 0.844 0.844 0.842 0.211 2.466 3.373 4.474 5.731 1.759 0.149 1.093 1.759 0.149 0.8237 1.760 0.184 0.502	PO3_EM 1.533 3.632 1.091 2.013 2.482 5.007 2.691 1.431 1.031 2.614 1.113 0.428 3.141 3.921 2.433 2.511 6.901 6.380 3.156 0.408 1.234 1.244 1.233 0.516 1.437	86 BM PO4_EM 2,957 1.772 0.344 4.070 1.286 5.511 4.070 1.285 5.511 4.281 1.227 3.643 2.495 3.061 1.531 1.531 1.531 1.522 1.674 1.991 1.222 1.674 1.937 2.845 2.945 3.343 3.343 2.191 2.0600 0.224 0.735	P9_EM 2.063 4.106 0.566 4.813 2.397 2.836 1.323 3.940 2.578 2.186 2.380 0.391 4.965 6.005 1.776 1.084 3.876 7.290 3.616 0.511 2.576 1.457 2.438 0.871 1.457 2.438 0.871 1.030	97 P10_EM 2.270 2.011 1.190 2.021 2.021 4.585 2.469 2.469 2.469 2.469 1.528 0.255 1.732 3.400 7.244 3.234 1.126 2.659 3.258 5.416 2.265 3.258 5.416 3.234 1.126 2.659 3.258 5.416 3.537 3.034 1.917 1.619 6.311	01_EM 2.868 0.434 3.594 4.969 2.945 3.406 0.352 4.439 0.893 1.917 2.384 0.269 4.898 4.298 4.298 4.998 4.998 4.998 4.998 4.052 0.374 3.468 2.043 3.695 0.491 1.069	O2_EM 3.213 4.969 0.373 5.263 4.014 3.743 0.979 3.525 1.515 1.384 3.594 0.161 1.766 3.430 5.920 1.776 3.929 0.173 3.928 2.188 6.052 0.416

TABLE III (continued)

		20	4	25	124	34	122	11	53	87	59	92	68	60	86	58	97	72	77
Fear-Sad Ali	igned	F1_FS	F2_FS	F3_FS	F4_FS	F7_FS	F8_FS	Fz_FS	P3_FS	P4_FS	P7_FS	P8_FS	POz_FS	PO3_FS	PO4_FS	P9_FS	P10_FS	O1_FS	O2_FS
AD_1'	ADHD	1.443	1.756	1.502	2.302	2.120	3.091	1.633	0.769	1.740	2.078	2.600	1.763	1.541	2.739	2.488	3.225	4.375	4.210
AD_2'	ADHD	0.549	1.161	1.003	1.318	1.109	0.828	1.174	2.043	0.368	3.384	2.021	1.981	3.487	1.109	3.874	1.541	5.032	3.564
AD_3'	ADHD	3.343	2.358	2.430	2.321	2.016	4.128	4.796	0.142	0.377	0.556	1.560	0.469	1.306	0.360	0.574	1.110	0.472	0.401
AD_4'	ADHD	1.000	1.193	2.203				1.150	1.475	1.460	4.366		2.987	1.876	4.435	4.993		3.839	
AD_5'	ADHD	0.476	1.763	0.601	1.511	1.704	2.291	0.209	1.574	1.878	2.309	4.882	1.718	2.259	1.210	2.101	3.370	5.378	5.669
AD_6'	ADHD	1.455	2.981	2.289	4.414	3.873	2.634	1.459	1.941	2.581	2.357	2.227	1.593	4.960	5.142	3.419	1.821	2.682	2.738
AD_7'	ADHD		2.494	5.375	3.716	1.763	4.182	1.466	1.563	3.309	3.689	4.394	3.493	3.687	4.805	3.925	6.110	3.663	3.755
AD_8'	ADHD	1.413	2.458	1.448	2.579	2.060	3.986	2.025	1.811	1.409	0.927	4.550	0.570	1.254	1.071	1.154	4.757	0.367	0.988
AD_9'	ADHD	2.745	3.004	2.740	2.516	2.187			1.542	2.261		2.073	2.956	3.037	3.370	4.524	1.956	3.368	3.139
AS_1'	Autism								0.988	1.631	1.241	2.999	0.989	1.181	2.287	2.763		0.999	1.433
AS_2'	Autism	1.648	1.540	1.343	1.196	2.482	2.051	1.936	2.460	1.123	3.988	1.722	1.177	4.704	3.531	2.203	1.128	2.457	1.529
AS_3'	Autism	0.859	0.097	1.014	0.878	1.557	2.233	1.004	0.695	0.212	1.813	2.378	0.250	1.098	1.537	2.364	1.641	2.183	3.618
AS_4'	Autism	3.954	4.325	4.018	6.188	2.173		4.029	0.483	0.059	0.333	0.092	0.270	0.465	1.881	0.376	0.257	0.301	0.164
AS_5'	Autism	5.718	4.793	2.197	2.789	4.941	3.852	3.838	1.854	2.335	4.641	4.419	3.087	3.062	3.247	4.888	1.687	5.127	
AS_6'	Autism	1.131	2.719	2.166		3.405		2.157	1.548	3.180	3.245	4.305	1.435	4.412	4.638	6.991	3.903	4.883	6.748
AS_7'	Autism	0.921	2.005	2.983	3.161	4.606	5.143	3.210	4.462	8.378						8.076	7.244		
AS_8'	Autism	3.067	2.920	3.972	4.446		6.872	2.527	1.668	0.491	1.761	3.817	1.823	2.889	1.024	2.144	4.962	2.012	1.416
AS_9'	Autism	0.539	1.441	0.739	1.657	1.126	1.578	1.143	1.347	0.933	2.053	1.246	3.200	1.975	1.176	1.127	1.960	2.320	2.680
AS_10'	Autism	1.358	0.966	1.620	1.157	2.960	3.813	1.346	4.068	1.078		3.931	5.291		1.820	3.818	2.793	4.228	5.979
C_1'	Control	0.742	0.292	0.988	6.332	2.031	1.927	0.046	1.379	1.599		3.559	6.942	6.810	1.751	7.564	3.804		
C_2'	Control	0.497	0.316	3.827	1.896	4.655	3.400	0.684	0.898	1.751	3.129		1.853	3.077	4.067	4.040	6.120		3.926
C_3'	Control	1.775	2.052	1.837	3.443	1.796	7.002	1.417	0.554	0.412	0.671	2.682	0.223	0.579	3.764	0.705	2.823	0.510	0.241
C_4'	Control	1.041	1.200	1.430	1.186	1.512	2.255	0.949	2.161	0.926	2.581	1.566	1.394	1.156	3.331	2.544	3.913	3.097	3.390
C_5'	Control	0.726	1.796	0.861	2.080	1.315	2.039	1.376	0.857	0.598	1.339	2.151	2.186	1.130	2.539	1.447	1.828	2.055	2.284
C_6'	Control	2.117	1.874	1.665	3.004	4.525	5.648	1.663	1.787	2.110		6.170	1.438	2.875	2.221	2.767	1.931	2.625	4.925
C_7'	Control	0.598	0.971	0.804	2.172	1.442	3.492	0.727	0.601	0.760	0.694	1.046	0.195	0.642	0.241	0.894	1.242	0.835	0.756
C_8'	Control		1.556		1.549			2.187	1.355	0.425	1.405	1.680	0.539	1.401	0.785	0.947	6.782	1.155	1.249
C_9'	Control	2.617	4.559	3.874	4.715	4.629		2.802	1.652	0.023	2.677	2.193	0.883	2.481	0.024	6.054	3.173	1.215	1.392
C_10'	Control	1.306	0.581	1.124	0.695	2.480	3.043	2.052	0.452	0.566	0.807	1.500	0.067	0.491	0.587	1.841	2.387	0.878	0.746
C_11'	Control	2.593	3.250	3.865	2.750		4.459	3.650		4.489	6.041	5.679	6.842		4.247	7.509	7.124		
			0.000	0.000						4.405	0.041	5.075				7.505			
Gender All Al	ligned	20	4	25	124	34	122	11	53	87	59	92	68	60	86	58	97	72	77
Gender All Al	-	20 F1_GE	4 F2_GE	25 F3_GE	124 F4_GE	F7_GE	F8_GE	11 Fz_GE	P3_GE	87 P4_GE	59 P7_GE	92 P8_GE	68 POz_GE	PO3_GE	86 PO4_GE	58 P9_GE	97 P10_GE	01_GE	O2_GE
AD_1'	ADHD	20 F1_GE 2.049	4 F2_GE 2.210	25 F3_GE 2.179	124 F4_GE 2.857	F7_GE 2.241	F8_GE 3.075	11 Fz_GE 1.889	P3_GE 0.779	87 P4_GE 1.752	59 P7_GE 2.882	92 P8_GE 2.661	68 POz_GE 2.129	PO3_GE 1.780	86 PO4_GE 4.052	58 P9_GE 3.788	97 P10_GE 4.472	01_GE 5.452	02_GE 5.708
AD_1' AD_2'	ADHD	20 F1_GE 2.049 0.641	4 F2_GE 2.210 0.786	25 F3_GE 2.179 0.992	124 F4_GE 2.857 0.885	F7_GE 2.241 1.427	F8_GE	11 Fz_GE 1.889 0.719	P3_GE 0.779 1.908	87 P4_GE 1.752 1.116	59 P7_GE 2.882 2.567	92 P8_GE 2.661 2.729	68 POz_GE 2.129 4.534	PO3_GE 1.780 2.745	86 PO4_GE 4.052 1.859	58 P9_GE 3.788 2.778	97 P10_GE 4.472 3.208	01_GE 5.452 5.656	O2_GE 5.708 4.379
AD_1' AD_2' AD_3'	ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999	4 F2_GE 2.210 0.786 1.579	25 F3_GE 2.179 0.992 2.445	124 F4_GE 2.857	F7_GE 2.241	F8_GE 3.075	11 Fz_GE 1.889 0.719 3.564	P3_GE 0.779 1.908 0.180	87 P4_GE 1.752 1.116 0.599	59 P7_GE 2.882 2.567 0.914	92 P8_GE 2.661 2.729 1.034	68 POz_GE 2.129 4.534 0.673	PO3_GE 1.780 2.745 1.187	86 PO4_GE 4.052	58 P9_GE 3.788 2.778 0.878	97 P10_GE 4.472	01_GE 5.452 5.656 0.836	02_GE 5.708
AD_1' AD_2' AD_3' AD_4'	ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048	4 F2_GE 2.210 0.786 1.579 1.935	25 F3_GE 2.179 0.992 2.445 1.328	124 F4_GE 2.857 0.885 1.449	F7_GE 2.241 1.427 2.397	F8_GE 3.075 0.680	11 Fz_GE 1.889 0.719 3.564 1.192	P3_GE 0.779 1.908 0.180 1.835	87 P4_GE 1.752 1.116 0.599 1.678	59 P7_GE 2.882 2.567 0.914 4.278	92 P8_GE 2.661 2.729 1.034 6.280	68 POz_GE 2.129 4.534 0.673 5.051	PO3_GE 1.780 2.745 1.187 1.928	86 PO4_GE 4.052 1.859 0.636	58 P9_GE 3.788 2.778 0.878 6.018	97 P10_GE 4.472 3.208 0.989	01_GE 5.452 5.656 0.836 4.085	02_GE 5.708 4.379 0.769
AD_1' AD_2' AD_3' AD_4' AD_5'	ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390	4 F2_GE 2.210 0.786 1.579 1.935 2.289	25 F3_GE 2.179 0.992 2.445 1.328 0.593	124 F4_GE 2.857 0.885 1.449 1.796	F7_GE 2.241 1.427 2.397 1.390	F8_GE 3.075 0.680 1.931	11 Fz_GE 1.889 0.719 3.564 1.192 0.193	P3_GE 0.779 1.908 0.180 1.835 1.743	87 P4_GE 1.752 1.116 0.599 1.678 0.732	59 P7_GE 2.882 2.567 0.914 4.278 1.866	92 P8_GE 2.661 2.729 1.034 6.280 2.671	68 POz_GE 2.129 4.534 0.673 5.051 0.958	PO3_GE 1.780 2.745 1.187 1.928 2.560	86 PO4_GE 4.052 1.859 0.636 0.636	58 P9_GE 3.788 2.778 0.878 6.018 1.626	97 P10_GE 4.472 3.208 0.989 1.861	01_GE 5.452 5.656 0.836 4.085 3.953	02_GE 5.708 4.379 0.769 4.735
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292	124 F4_GE 2.857 0.885 1.449 1.796 1.933	F7_GE 2.241 1.427 2.397 1.390 3.216	F8_GE 3.075 0.680 1.931 2.746	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850	86 PO4_GE 4.052 1.859 0.636 0.636 1.125 2.023	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927	97 P10_GE 4.472 3.208 0.989	01_GE 5.452 5.656 0.836 4.085 3.953 2.415	O2_GE 5.708 4.379 0.769 4.735 2.397
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854	F8_GE 3.075 0.680 1.931 2.746 2.812	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886	86 PO4_GE 4.052 1.859 0.636 1.125 2.023 4.414	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038	97 P10_GE 4.472 3.208 0.989 1.861 1.855	01_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678	O2_GE 5.708 4.379 0.769 4.735 2.397 4.289
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_8'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.896	F8_GE 3.075 0.680 1.931 2.746	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774	86 PO4_GE 4.052 1.859 0.636 1.125 2.023 4.414 0.916	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396	O1_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291	02_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_7' AD_8' AD_9'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854	F8_GE 3.075 0.680 1.931 2.746 2.812	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610	86 PO4_GE 4.052 1.859 0.636 2.023 4.414 0.916 2.635	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335	97 P10_GE 4.472 3.208 0.989 1.861 1.855	D1_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194	O2_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_8' AD_9' AS_1'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.545	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.896 2.013	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805	68 PO2_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914	86 PO4_GE 4.052 1.859 0.636 7 1.125 2.023 4.414 0.916 2.635 2.371	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335 3.701	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770	D1_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018	O2_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117
AD_1' AD_2' AD_3' AD_4' AD_5' AD_5' AD_7' AD_7' AD_8' AD_9' A5_1' A5_2'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821 2.317	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.545 1.241	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.896 2.013 3.769	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038 2.822	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907	68 PO2_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801	86 PO4_GE 4.052 1.859 0.636 2.023 4.414 0.916 2.635 2.371 4.167	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335 3.701 2.203	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.216	D1_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940	O2_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_8' AD_9' AD_9' AS_1' AS_2' AS_3'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.516 1.821 2.317 1.032	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498 0.040	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 2.551 1.228 0.722	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.543 2.224 2.545 1.241 0.571	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.896 2.013 3.769 1.584	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 0.596 2.754 2.038 2.822 1.591	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.523	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801	86 PO4_GE 4.052 1.859 0.636 7 2.023 4.414 2.635 2.371 4.167 1.122	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335 3.701 2.203 2.231	97 P10_6E 4.472 3.208 0.989 1.861 1.861 4.396 1.770 1.216 1.226	01_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699	02_6E 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_3' AS_3'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821 2.317 1.032 1.421	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.545 	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.854 1.896 2.013 3.769 1.584 1.122	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.491	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.249	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.961 1.346 0.093 0.028	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038 2.822 1.591 0.357	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.523 0.100	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160 0.241	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282	86 PO4_GE 4.052 1.859 0.636 7 2.023 4.414 0.916 2.637 2.371 4.167 1.122 0.629	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.336 3.701 2.203 2.231 0.380	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.216 1.226 0.203	01_6E 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279	02_6E 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_8' AD_9' AD_9' AS_1' AS_2' AS_3' AS_3' AS_5'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821 2.317 1.032 1.421 1.988	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838 1.944	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.543 2.224 2.545 1.241 0.571	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.854 2.013 3.769 1.584 1.122 2.962	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.249 2.461	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.227	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093 0.028 0.861	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038 2.822 1.591 0.357 5.297	92 98_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.523 0.100 1.722	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160 0.241 1.770	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572	86 PO4_GE 4.052 1.859 0.636 7 2.023 4.414 0.916 2.635 2.371 4.167 1.122 0.629 2.508	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335 3.701 2.203 2.231	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.216 1.226 0.203 1.506	01_6E 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744	02_6E 5.708 4.379 0.769 4 .735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200 5.052
AD_1' AD_2' AD_3' AD_6' AD_6' AD_6' AD_6' AD_6' AD_7' AD_8' AD_8' AD_8' AS_1' AS_2' AS_3' AS_5' AS_5'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.516 1.821 2.317 1.032 1.421 1.988 0.980	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498 0.040 1.452 2.125 1.819	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838 1.944 2.152	124 F4_GE 2.857 0.885 1.499 1.796 1.933 2.563 2.224 2.545 1.241 0.571 2.118 1.557	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.854 1.896 2.013 3.769 1.584 1.122 2.962 3.135	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.060 2.052	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.210 1.560 0.902 2.249 2.461 1.959	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.227 1.645	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093 0.028 0.861 3.453	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038 2.822 1.591 0.357	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.523 0.100	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160 0.241	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282	86 PO4_GE 4.052 1.859 0.636 7 2.023 4.414 0.916 2.637 2.371 4.167 1.122 0.629	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.336 3.701 2.203 2.231 0.380	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.216 1.226 0.203 1.506 4.167	01_6E 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279	02_6E 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_3' AS_3' AS_5' AS_6' AS_5' AS_6' AS_7'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821 .821 1.032 1.421 1.988	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498 0.040 1.452 2.125 1.819 2.315	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838 1.944 2.152 1.980	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.565 1.241 0.571 2.118 1.557 3.263	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.854 2.013 3.769 1.584 1.122 2.962	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.491	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.249 2.461 1.559 2.957	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.225 1.645 5.310	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093 0.028 0.861 3.453 5.634	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038 2.822 1.591 0.357 5.297 3.207	92 98_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.523 0.100 1.722 4.343	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.556 1.783 0.160 0.241 1.770 1.467	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572 3.106	86 PO4_GE 4.052 1.859 0.636 1.125 2.023 4.414 0.916 2.635 2.371 4.167 1.122 0.629 2.508 4.365 2.4365	58 P9_GE 3.788 2.778 6.018 1.626 1.927 4.038 0.826 3.335 3.701 2.203 2.231 0.380 5.582	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.216 1.226 0.203 1.506 4.167 5.966	01_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406	02_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200 5.052 5.052
AD_1' AD_2' AD_3' AD_6' AD_5' AD_6' AD_7' AD_8' AD_8' AD_8' AD_8' AD_8' AS_1' AS_2' AS_3' AS_5' AS_5' AS_5' AS_6'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821 2.317 1.032 1.421 1.988 0.980 1.049	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498 0.040 1.452 2.125 1.819 2.315 3.361	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838 1.944 2.152 1.980 2.809	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.545 1.241 0.571 2.118 1.557 3.263 4.450	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.856 2.013 3.769 1.584 1.122 2.962 3.135 3.274	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.491 2.052 5.104	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 4.110 1.560 0.902 2.249 2.461 1.957 2.564	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.203 1.485 1.211 1.204 1.945 1.886 0.502 0.316 1.225 1.645 5.310 1.095	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093 0.028 0.861 3.453 5.634 1.893	S9 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.082 1.591 0.357 5.297 3.707 1.693	92 98_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.523 0.100 1.722 4.343 5.187	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160 0.241 1.770 1.467 1.444	PO3_GE 1.780 2.745 1.877 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572 3.702 1.961	86 PO4_GE 4.052 1.859 0.636 7 2.023 4.414 0.916 2.635 2.371 4.167 1.122 0.629 2.508 4.65 	58 P9_GE 3.788 2.778 0.878 0.878 0.6018 1.626 1.927 4.038 0.826 3.335 3.701 2.203 2.231 0.380 5.582 2.766	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.216 1.226 0.203 1.506 4.160 5.966 6.474	01_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406 1.934	02_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200 5.052 5.707 2.237
AD_1' AD_2' AD_3' AD_6' AD_5' AD_6' AD_5' AD_6' AD_7' AD_8' AD_8' AD_8' AD_8' AD_8' AS_1' AS_3' AS_4' AS_6' AS_6' AS_6' AS_8'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821 2.317 1.032 1.421 1.988 0.980 1.049 0.614	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498 0.040 1.458 0.040 1.458 0.450 1.458 1.498 0.450 1.458 1.498 1.451 1.458 1.459 1.451 1.458 1.459 1.451 1.458 1.459 1.451 1.458 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.451 1.459 1.459 1.451 1.458 1.459 1.419 1.4101	25 F3_GE 2.179 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838 1.944 2.152 1.983 1.944 2.152 2.809 0.756	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.545 1.241 0.571 2.118 1.557 3.263 4.450 1.062	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.854 1.854 2.013 3.769 1.584 1.122 2.962 3.135 3.274 0.966	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.491 2.052 5.104 1.114	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.249 2.461 1.959 2.954 1.068	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.227 1.645 5.310 1.095 0.912	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093 0.028 0.861 3.453 5.634 1.893 1.045	59 P7_GE 2.8567 0.914 4.278 1.866 0.596 2.754 2.038 2.822 1.591 0.357 5.297 3.707 1.693 3.642	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.927 1.927 0.100 1.722 4.343 0.100 1.722 4.343	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160 0.241 1.770 1.467 1.444 0.720	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572 3.106	86 PO4_GE 4.052 1.859 0.636 0.636 0.636 0.916 2.023 4.414 0.916 2.635 2.371 4.167 1.122 0.629 2.508 4.365 0.635 3.087 2.017	58 P9_GE 3.788 2.778 0.878 1.626 1.927 4.038 0.826 3.335 3.701 2.231 0.380 5.582 2.766 1.111	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.216 1.226 0.203 1.506 4.167 5.966 6.474 1.969	01_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406 1.934 5.092	02_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200 5.052 5.707 2.237 5.948
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_2' AS_3' AS_5' AS_5' AS_5' AS_6' AS_6' AS_6' AS_6' AS_6' AS_6' AS_6' AS_6'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.821 2.317 1.032 1.421 1.988 0.980 1.049 0.614 1.546	4 F2_GE 2.218 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498 0.040 1.452 2.125 1.819 2.315 3.361 1.101 0.868	25 F3_GE 2.179 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838 1.244 2.551 1.228 0.722 1.830 2.800 2.800 0.756 1.632	124 F4_GE 2.857 0.857 1.449 1.796 1.933 2.563 2.224 2.545 1.241 0.571 2.118 1.557 3.263 4.450 1.052 1.104	F7_GE 2.241 1.427 3.390 3.216 1.854 1.896 2.013 3.769 1.584 1.122 2.962 3.135 3.274 0.966 2.480	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.052 5.104 1.114 3.500	11 Fz_GE 1.889 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.495 2.557 2.564 1.959 2.957 2.565 1.058 1.375	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.227 1.645 5.310 1.0912 3.433	87 P4_GE 1.752 1.752 1.753 1.758 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093 0.028 0.088 0.861 3.453 5.634 1.893 1.045 0.893	59 P7_GE 2.867 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038 2.822 1.591 0.357 5.297 3.707 1.693 3.642 6.196	92 98_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.523 0.100 1.722 4.343 5.187 2.119 3.269	68 POz_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160 0.241 1.770 1.467 1.444 0.720 4.062	PO3_GE 1.780 2.745 1.877 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572 3.705 1.961	86 PO4_GE 4.052 1.859 0.636 1.125 2.023 4.414 0.916 2.635 2.371 4.167 1.122 0.629 2.508 3.087 2.017 2.836	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.301 2.203 2.231 0.380 5.582 2.766 1.111 3.269	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 7.216 1.226 0.203 1.506 4.167 5.966 6.474 1.969 1.987	01_GE 5.452 5.656 4.085 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406 1.934 5.092 3.129	02_GE 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200 5.052 5.707 2.237
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_8' AD_9' AS_1' AS_2' AS_2' AS_2' AS_5' AS_5' AS_6' AS_7' AS_8' AS_9' AS_10' C_1'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.516 1.516 1.517 1.032 1.421 1.988 0.980 1.049 0.980 1.049 0.614 1.546 0.217	4 F2_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.105 1.498 0.400 1.452 2.125 1.819 2.315 3.361 1.101 0.868 0.194	25 F3_GE 2.79 0.992 2.445 1.328 0.593 1.292 3.344 1.562 2.551 1.228 0.722 1.838 1.944 2.152 1.838 1.944 2.152 1.980 0.756 1.632 0.285	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.545 1.241 0.571 2.118 1.557 3.263 4.450 1.062 1.062 1.062	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.896 2.013 0 0.584 1.122 2.962 3.135 3.274 0.966 2.480 2.854	F8_GE 3.075 0.680 1.931 2.766 2.812 3.687 2.060 2.491 2.052 5.104 1.1114 3.500 2.390	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.249 2.461 1.959 2.957 2.564 1.068 1.375 0.067	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.227 1.645 5.310 1.095 0.912 3.433 0.542	87 P4_GE 1.752 1.116 0.599 1.678 0.732 1.213 3.131 1.112 1.967 1.901 1.346 0.093 0.028 0.861 3.453 5.634 1.893 1.045 0.893 1.177	59 P7_6E 2.857 0.914 4.278 1.866 1.204 3.936 0.594 2.754 2.038 2.857 0.357 5.297 3.707 1.693 3.642 6.196 3.913	92 P8_GE 2.661 2.729 1.034 6.280 2.671 2.002 5.953 4.136 1.893 3.805 1.907 1.927 1.927 0.100 1.722 4.343 0.100 1.722 4.343	68 PO2_GE 2.129 4.534 0.673 5.051 0.958 2.019 2.857 0.461 1.603 1.556 1.783 0.160 0.241 1.770 1.467 1.444 0.220 2.044	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572 3.106 1.961 3.330	86 PO4_GE 4.052 1.859 0.636 1.125 2.023 4.414 0.916 2.635 2.371 4.167 1.122 0.629 2.508 4.365 3.087 2.017 2.836 1.443	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335 3.701 2.203 2.231 0.380 5.582 2.766 1.111 3.269 5.875	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.770 1.770 1.716 1.216 0.203 1.506 4.167 5.966 6.474 1.969 1.969 1.987	01_GE 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406 1.934 5.092	02_GE 5.708 4.379 0.769 2.397 4.289 1.079 2.343 2.117 1.281 1.281 2.535 5.052 5.707 2.237 5.948 4.020
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AD_1' AD_2' AD_3' AD_6' AD_6' AD_6' AD_6' AD_7' AD_8' AD_8' AD_7' AD_8' AD_8' AS_1' AS_1' AS_3' AS_5' AS_6' AS_6' AS_6' AS_8' AS_9' AS_1' C_1' C_2' C_3' C_6' C_7'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 2.999 1.048 0.390 1.176 1.516 1.516 1.516 1.516 1.516 1.517 1.032 1.421 1.988 0.980 1.049 0.614 1.546 0.217 0.296 1.351 1.111 0.666 1.526 1.727	4 FZ_GE 2.210 0.786 1.579 1.935 2.289 1.461 1.834 2.154 3.154 3.154 3.154 1.498 0.040 1.452 2.125 3.361 1.619 2.315 3.365 1.619 2.315 3.365 1.610 1.629 1.639	25 F3_GE 9.992 2.445 1.328 3.344 1.562 2.551 1.562 2.551 1.562 1.5	124 F4_GE 2.857 0.885 1.449 1.796 1.933 2.563 2.224 2.545 1.241 0.571 2.118 1.557 3.263 4.450 1.062 1.104 1.721 1.466 3.6556 1.321 1.160 2.763 3.513	F7_GE 2.241 1.427 2.397 1.390 3.216 1.8596 2.013 769 1.584 1.122 2.962 3.135 3.274 2.962 3.135 3.274 0.966 2.4854 5.361 1.756 1.410 1.013 3.687 2.173	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.491 2.052 5.104 5.104 3.658 4.119 2.551 1.573	11 Fz_GE 1.889 0.719 3.564 1.192 0.193 1.234 3.027 1.624 4.110 4.110 0.902 2.249 2.461 1.560 0.902 2.249 2.461 1.595 2.957 2.957 2.957 2.957 2.957 1.068 1.375 0.067 0.497 1.269 0.851 0.901 1.629	P3_GE 0.779 1.908 0.180 1.835 1.743 1.023 1.111 1.206 1.211 1.206 1.445 1.211 1.206 1.945 1.886 0.502 0.316 1.227 1.645 5.310 1.095 0.912 3.433 0.542 0.786 0.319 1.132 0.760 1.625	87 94_6E 94_6E 1.752 1.175 1.175 1.175 1.175 1.171 1.678 1.121 1.677 1.121 1.678 1.121 1.677 1.121 1.677 1.121 1.677 1.121 1.677 1.901 1.901 1.901 1.901 1.902 0.6861 0.6381 1.045 0.893 1.047 1.177 1.192 0.2052 0.2422 1.976 2.422 1.976 0.536	59 P7_GE 2.882 2.567 0.914 4.278 1.866 1.204 3.936 0.596 2.754 2.038 2.822 1.591 0.357 5.297 3.707 1.693 3.642 6.196 3.913 2.310 0.302 4.272 1.184 5.329 0.731	92 92, 661 2,729 1,034 2,671 2,002 2,671 2,002 2,671 2,002 2,671 2,002 2,671 2,002 2,593 4,136 1,893 3,893 3,893 1,523 3,002 1,523 3,129 3,266 1,523 3,265 1,523 3,265 1,523 1,529 1,523 1,529 1,523 1,529 1,523 1,529 1,523 1,529 1,5	68 PO2_GE 2.129 4.534 0.673 5.051 2.019 2.857 0.461 1.603 1.556 1.770 1.467 1.444 0.720 4.062 2.044 1.081 0.667 1.551 0.863 1.846 0.447	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.822 2.572 3.106 2.572 3.206 2.592 0.613 0.613 0.622 2.572 3.106 0.2572 3.207 0.981 2.047 0.987 2.517 0.403	86 PO4_GE 4.052 1.125 2.023 4.051 2.033 4.044 0.916 2.037 4.367 2.371 1.122 2.508 3.087 2.830 3.087 2.833 3.087 2.635 3.087 2.839 3.087 2.839 3.087 2.839 3.087 2.839 3.087 2.839 3.087 2.839 3.087 2.839 3.087 2.839 3.716 2.839 3.716 3.854	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335 3.701 2.203 2.231 0.380 5.582 2.766 1.111 3.269 5.875 3.420 0.3666 1.212 2.6661	97 P10_GE 4.472 3.208 0.989 1.861 1.855 4.396 1.706 1.216 1.226 0.203 1.506 4.167 5.966 6.474 1.969 1.987 3.021 4.139 1.009 3.201 1.849 2.491 2.491	01_6E 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406 1.934 5.092 3.129 4.554 0.192 4.381 1.315 0.448	02_6E 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200 5.052 5.707 2.237 5.948 4.020 0.804 4.898 1.465 6.539 0.801
AD_1' AD_2' AD_3' AD_6' AD_5' AD_5' AD_7' AD_8' AD_8' AD_9' AS_1' AS_2' AS_2' AS_5' AS_5' AS_5' AS_6' AS_7' AS_8' AS_8' AS_8' C_1' C_2' C_3' C_5' C_6' C_7' C_8'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 1.048 0.990 1.546 1.546 1.821 1.032 1.421 1.032 1.421 1.032 1.421 1.032 1.421 1.032 1.421 1.546 0.217 0.296 0.614 1.546 1.5	4 F2 GE 2.210 0.786 1.579 1.579 1.579 1.461 1.834 2.154 1.461 1.834 2.154 1.461 1.475 2.155 3.305 1.498 0.040 1.498 0.040 1.498 0.040 1.498 0.040 0.210	25 F3 GE 2.179 0.992 2.445 1.282 0.593 1.282 2.551 1.282 2.551 1.282 2.551 1.282 2.551 1.282 2.551 1.282 0.722 1.838 1.944 1.980 1.632 0.756 1.632 0.285 1.632 1.272 1.598 1.632 1.6	124 F4_GE 2.857 0.885 1.449 1.796 2.563 2.254 2.545 1.241 0.571 2.118 1.557 3.263 4.450 1.062 1.104 1.721 1.466 3.656 1.321 1.100 2.763 3.513 1.020	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.896 2.013 3.769 1.584 1.895 2.013 3.769 1.584 1.122 2.962 3.135 3.274 0.966 2.480 2.854 5.361 1.756 1.4103 1.756 1.4103 3.687 2.173	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.491 2.052 5.104 5.104 3.658 4.119 2.551 1.573	11 Fg_GE 1.889 0.719 3.664 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.249 2.357 2.564 1.375 0.668 1.375 0.647 1.269 0.851 1.608 0.928	P3_GE 0.779 1.908 0.180 1.803 1.823 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.227 1.645 5.310 0.995 0.912 0.433 0.542 0.786 0.319 1.1623 0.4657	87 P4 GE 1.752 1.1752 1.116 0.599 0.732 1.213 3.131 1.112 1.967 0.331 1.112 1.967 0.093 0.028 0.863 1.903 0.028 0.833 1.177 0.025 0.833 1.177 0.225 0.2422 1.976 0.536 0.534	59 P7 GE 2.882 2.567 0.314 4.278 1.862 0.314 1.204 3.396 0.596 0.596 0.596 0.597 1.693 3.042 2.310 0.302 4.278 4.279 1.693 3.913 2.310 0.302 4.272 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.731	92 P8 GE 2.661 2.729 1.034 2.671 2.002 2.671 2.002 2.671 2.002 2.671 1.803 3.805 1.803 1.803 1.907 1.523 0.100 1.722 4.343 3.269 2.706 1.832 3.269 2.709 1.832 2.709 1.832 2.709 1.832 3.209 2.709 1.832 3.209 2.709 1.832 3.209 1.832 3.209 1.832 3.209 1.833 3.209 1.832 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.833 3.209 1.832 3.209 1.833 3.209 1.833 3.209 1.832 3.209 1.832 3.209 1.833 3.209 1.832 3.209 1.229 3.209 1.229 3.209 1.229 3.209 1.229 3.209 3.2	68 PO2 68 2.129 4.534 0.673 5.051 0.561 1.556 0.461 1.556 0.461 1.556 0.461 1.556 0.461 1.550 1.463 0.160 0.241 1.464 0.224 1.464 0.667 1.551 1.846 0.667 1.551 1.846 0.667 1.551 1.846 0.667 1.551 1.560 1.279 1.	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572 3.300 2.394 0.305 2.047 0.987 0.978	86 POd_GE 4.052 1.859 0.636 1.125 2.023 2.031 4.167 1.125 2.635 3.087 3.087 3.087 2.836 3.047 2.633 3.087 2.636 3.087 2.637 3.087 2.638 0.501 2.836 0.527	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 0.826 3.335 3.701 2.203 2.231 0.380 5.582 2.766 1.11 3.269 5.875 3.4200 0.366 4.268 1.212 2.667	97 P10 GE 4.472 3.208 0.989 1.861 1.855 4.396 1.226 0.203 1.216 1.226 0.203 1.270 1.226 0.203 1.556 4.167 5.566 6.474 4.139 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.687 3.021 1.770 1.226 1.226 3.021 1.687 3.021 1.697 3.	01_6E 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406 1.934 5.092 3.129 4.554 0.192 4.381 1.315 0.448 0.931	02_6E 5.708 4.3279 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 1.281 2.535 0.200 5.052 5.707 2.237 5.948 4.020 2.347 0.084 4.896 1.465 6.539 0.801 0.884
AD_1' AD_2' AD_3' AD_4' AD_5' AD_6' AD_7' AD_8' AD_8' AD_8' AD_8' AD_8' AD_8' AD_8' AD_8' AD_8' AS_1' AS_1' AS_1' AS_5' AS_6' AS_6' AS_6' AS_7' AS_8' AS_8' AS_10' C_1' C_2' C_3' C_6' C_7' C_8' C,9'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 1.048 0.330 1.176 1.516 1.526 1.622 1.622 1.622 1.622 1.622 1.622 1.622 1.624 1.546 1.526 1.727 1.516 1.526 1.5	4 F2 GE 2210 0.786 1.579 1.433 1.431 1.434 2.154 1.434 2.154 1.438	25 F3 GE 2.179 0.992 2.445 1.328 0.593 3.344 1.562 2.551 1.228 0.722 1.238 2.551 1.248 0.722 1.248 2.551 1.248 0.722 1.248 2.352 1.248 2.352 1.548 1.254 1.254 1.254 1.254 1.254 1.254 1.254 1.254 1.254 1.254 1.255 1.254 1.255 1.254 1.255 1.2	124 F4 GE 2.857 0.885 1.449 1.796 2.563 2.244 2.563 2.244 2.563 2.244 2.563 2.244 2.563 1.933 1.933 2.563 2.244 2.563 1.933 1.933 1.5577 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1.557 1	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.854 1.854 3.769 3.769 3.769 3.769 3.74 0.966 2.480 2.854 1.422 2.662 3.135 3.274 0.9666 2.480 2.854 5.361 1.756 1.410 1.013 3.687 2.173 4.551	F8_GE 3.075 0.600 1.931 2.746 2.812 2.860 2.060 2.491 2.052 5.104 1.114 2.052 3.500 2.390 3.658 4.119 2.551 1.573 5.386	11 F2_GE 1.889 0.719 3.564 0.919 1.922 1.924 1.924 1.959 2.957 1.959 2.957 1.959 2.957 1.959 0.952 1.959 0.851 1.269 0.967 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 1.269 0.851 0.959 0.851 0.959 0.851 0.959 0.851 0.9590000000000	P3.GE 0.779 1.789 1.835	87 P4 GE 1.752 1.16 0.599 1.172 1.1678 1.173 1.111 1.121 1.123 3.131 1.112 1.136 0.0381 0.0381 0.0381 0.0381 1.137<	59 7.9 2.882 2.867 2.914 4.278 4.278 1.866 0.914 4.278 1.866 0.596 2.038 2.822 2.754 2.038 2.822 2.754 2.038 2.822 3.936 6.196 0.357 3.642 5.297 3.707 1.693 3.913 3.913 3.913 2.310 3.302 4.272 1.184 4.272 0.731 0.791 0.731 0.791 2.581	92 92 93 261 2729 1034 6,280 2,671 2,729 4,326 1,037 4,326 1,907 4,343 3,805 1,907 4,343 1,523 0,100 1,523 1,907 1,523 1,907 1,772 4,343 1,523 1,772 4,343 1,523 1,772 4,343 1,523 1,772 1,772 4,343 1,523 1,772 1,772 4,343 1,772 1,772 1,772 1,772 1,772 1,772 1,772 1,523 1,907 1,772 1,772 1,523 1,907 1,772 1,772 1,523 1,907 1,772 1,772 1,772 1,772 1,772 1,772 1,973 1,973 1,977 1,772 1,775 1	68 PD2 GE 2.129 4.534 0.673 2.857 0.461 1.551 0.160 0.241 1.556 0.160 0.241 1.783 0.160 0.241 1.467 1.467 1.467 1.467 1.467 1.467 1.467 1.467 1.464 0.270 1.464 0.673 1.464 0.673 1.464 0.673 1.464 0.673 1.464 0.673 1.464 0.673 1.464 0.673 1.464 0.673 1.464 0.673 1.464 0.673 1.467 0.673 1.467 0.673 1.467 0.673 1.467 0.673 1.467 0.673 1.467 0.673 1.467 0.467 1.467 0.467 1.467 0.467 1.467 0.467 1.467 0.467 1.467 0.467 1.467 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 0.477 0.467 1.467 1.467 0.477 0.467 1.477 1.4777 1.477 1.477 1.4777 1.4777 1.4777 1.47777 1.47777 1.4777	P03_CE 1.780 2.745 2.560 4.8500 4.8500 4.8500 4.8500 4.8500 4.8500 4.8500 4.85	86 E PD4_GE 4.052 1.859 0.636 1.125 2.023 4.414 0.916 0.52 2.371 1.425 2.635 2.635 2.635 2.635 2.637 2.635 3.087 2.017 2.836 2.835 3.087 2.017 2.833 3.087 2.017 2.833 3.716 2.653 3.716 0.504 0.524 0.524 0.526	58 P9.GE 3.788 2.778 0.878 2.778 0.878 2.778 0.878 3.781 1.626 2.033 3.335 3.301 2.231 2.330 2.330 2.330 2.330 2.330 2.330 2.330 2.330 2.330 2.330 3.350 3.350 3.350 3.350 3.360 3.3701 3.380 3.380 3.380 3.380 3.420 0.366 4.268 1.121 2.627 1.153 0.841	97 P10 GE 4.472 3.208 0.989 1.861 1.855 1.855 1.855 1.855 4.396 1.226 0.203 7.7700 7.7700 7.7700 7.7700 7.7700 7.7700 7.7700 7.7700 7.7700	01.6E 5.622 5.656 0.836 4.085 2.415 3.678 2.018 2.018 1.940 1.940 1.940 1.940 1.940 1.940 1.940 1.940 1.940 1.9444 1.9444 1.9444 1.9444 1.9444 1.9444 1.94444 1.9444 1.9	02_6E 5.708 4.379 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 2.535 0.200 5.052 5.707 2.237 5.948 4.020 4.898 1.465 6.539 0.801 0.8901 0.89
AD_1' AD_2' AD_3' AD_6' AD_5' AD_5' AD_7' AD_8' AD_8' AD_9' AS_1' AS_2' AS_2' AS_5' AS_5' AS_5' AS_6' AS_7' AS_8' AS_8' AS_8' C_1' C_2' C_3' C_5' C_6' C_7' C_8'	ADHD ADHD ADHD ADHD ADHD ADHD ADHD ADHD	20 F1_GE 2.049 0.641 1.048 0.990 1.048 1.516 1.821 1.821 1.032 1.421 1.032 1.421 1.032 1.421 1.032 1.421 1.536 1.546 0.217 0.226 0.217 0.226 0.549 1.546 1.5	4 F2 GE 2.210 0.786 1.579 1.579 1.579 1.461 1.834 2.154 1.461 1.834 2.154 1.461 1.475 2.155 3.305 1.498 0.040 1.498 0.040 1.498 0.040 1.498 0.040 0.210	25 F3 GE 2.179 0.992 2.445 1.282 0.593 1.282 2.551 1.282 2.551 1.282 2.551 1.282 2.551 1.282 2.551 1.282 0.722 1.838 1.944 1.980 1.632 0.756 1.632 0.756 1.632 1.272 1.980 1.632 1.598 1.272 1.598 1.5	124 F4_GE 2.857 0.885 1.449 1.796 2.563 2.254 2.545 1.241 0.571 2.118 1.557 3.263 4.450 1.062 1.104 1.721 1.466 3.656 1.321 1.100 2.763 3.513 1.020	F7_GE 2.241 1.427 2.397 1.390 3.216 1.854 1.896 2.013 3.769 1.584 1.895 2.013 3.769 1.584 1.122 2.962 3.135 3.274 0.966 2.480 2.854 5.361 1.756 1.4101 3.687 2.175 1.4103 3.687 2.175	F8_GE 3.075 0.680 1.931 2.746 2.812 3.687 2.060 2.491 2.052 5.104 5.104 3.658 4.119 2.551 1.573	11 Fg_GE 1.889 0.719 3.664 1.192 0.193 1.234 3.027 1.624 4.110 1.560 0.902 2.249 2.357 2.564 1.375 0.668 1.375 0.647 1.269 0.851 1.608 0.928	P3_GE 0.779 1.908 0.180 1.803 1.823 1.743 1.023 1.185 1.211 1.206 1.945 1.886 0.502 0.316 1.227 1.645 5.310 0.995 0.912 0.433 0.542 0.786 0.319 1.1623 0.4657	87 P4 GE 1.752 1.1752 1.116 0.599 0.732 1.213 3.131 1.112 1.967 0.331 1.112 1.967 0.093 0.028 0.863 1.903 0.028 0.863 1.973 0.028 0.883 1.177 0.025 0.883 1.175 0.028 0.029 0.0280 0.02800 0.0280 0.0280 0.0280000000000	59 P7 GE 2.882 2.567 0.314 4.278 1.862 0.314 1.204 3.396 0.596 0.596 0.596 0.597 1.693 3.042 2.310 0.302 4.278 4.279 1.693 3.913 2.310 0.302 4.272 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.302 0.731	92 92, 661 2,729 1,034 2,671 2,002 2,671 2,002 2,671 2,002 2,671 1,893 3,805 1,893 3,805 1,893 1,893 1,907 1,523 0,100 0,100 1,523 0,100 0,100 1,523 0,700 1,525 0,700 1,5	68 PO2 68 2.129 4.534 0.673 5.051 0.561 1.556 0.461 1.556 0.461 1.556 0.461 1.556 0.461 1.550 1.463 0.160 0.241 1.464 0.2044 1.067 1.551 1.464 0.467 1.551 1.464 0.667 1.551 1.566 0.667 1.571 0.461 1.572 0.461 1.770 0.461 1.770 1.464 0.249 1.464 0.265 1.770 1.464 0.265 1.770 1.464 0.265 1.770 1.464 0.467 1.770 1.465 1.464 0.467 1.770 1.465 1.464 0.467 1.770 1.467 1.464 0.467 1.770 1.467 1	PO3_GE 1.780 2.745 1.187 1.928 2.560 4.850 3.886 0.774 1.610 1.914 3.801 0.613 0.282 2.572 3.300 2.394 0.305 2.047 0.987 0.978	86 POd_GE 4.052 1.859 0.636 1.125 2.023 2.031 4.167 1.125 2.635 3.087 3.087 2.633 3.087 2.836 2.637 3.087 2.836 2.637 3.087 2.638 3.087 2.630 3.087 3.087 3.087 3.087 3.087 3.087 3.087 3.087 3.081 3.081 3.081 3.081 3.081 3.082 3.083 3.084	58 P9_GE 3.788 2.778 0.878 6.018 1.626 1.927 4.038 0.826 3.335 3.701 2.203 2.231 0.380 5.582 2.766 1.111 3.269 5.875 3.420 0.3666 1.212 2.6661	97 P10 GE 4.472 3.208 0.989 1.861 1.855 4.396 1.226 0.203 1.216 1.226 0.203 1.270 1.226 0.203 1.556 4.167 3.021 1.566 4.474 4.139 3.021 1.697 3.021 1.	01_6E 5.452 5.656 0.836 4.085 3.953 2.415 3.678 0.291 2.194 2.018 1.940 1.699 0.279 2.744 3.406 1.934 5.092 3.129 4.554 0.192 4.381 1.315 0.448 0.931	02_6E 5.708 4.3279 0.769 4.735 2.397 4.289 1.079 2.343 2.117 1.281 1.281 2.535 0.200 5.052 5.707 2.237 5.948 4.020 2.347 0.084 4.896 1.465 6.539 0.801 0.884

TABLE III (continued)

| | | 20 | 4 | 25
 | 124 | 34 | 122 | 11
 | 53 | 87 | 59
 | 92 | 68 | 60 | 86
 | 58 | 97 | 72
 | 77 |
|---|---|--|---
---	--	---
---	---	---
---	--	--
--	--	--
Anger-Disgust L	Jnaligned	F1_AD
 | F4_AD | F7_AD | F8_AD | Fz_AD
 | P3_AD | P4_AD | P7_AD
 | P8_AD | POz_AD | PO3_AD | PO4_AD
 | P9_AD | P10_AD | 01_AD
 | O2_AD |
| AD_1' | ADHD | 0.098 | 0.148 | 0.169
 | 0.164 | 0.304 | 0.489 | 0.085
 | 0.194 | 0.283 | 0.394
 | 0.437 | 1.108 | 0.657 | 0.768
 | 0.338 | 0.326 | 2.124
 | 1.416 |
| AD_2' | ADHD | 0.143 | 0.093 | 0.474
 | 0.098 | 0.787 | 0.121 | 0.103
 | 0.349 | 0.338 | 0.611
 | 0.745 | 0.509 | 0.648 | 0.480
 | 0.663 | 0.482 | 0.959
 | 1.035 |
| AD_3' | ADHD | 0.484 | 0.247 | 0.269
 | 0.216 | 0.267 | 0.282 | 0.637
 | 0.012 | 0.051 | 0.075
 | 0.167 | 0.124 | 0.171 | 0.063
 | 0.097 | 0.090 | 0.128
 | 0.099 |
| AD_4' | ADHD | 0.052 | 0.136 | 0.135
 | | | | 0.072
 | 0.236 | 0.132 | 0.909
 | 0.649 | 0.314 | 0.219 | 0.532
 | | 0.409 | 1.670
 | |
| AD_5' | ADHD | 0.127 | 0.584 | 0.102
 | 0.350 | 0.093 | 0.220 | 0.060
 | 0.252 | 0.452 | 0.267
 | 0.402 | 0.122 | 0.223 | 0.125
 | 0.199 | 0.119 | 0.443
 | 0.502 |
| AD_6' | ADHD | 0.479 | 0.172 | 0.669
 | 0.154 | 0.252 | | 0.135
 | 0.251 | 0.261 | 0.366
 | 0.306 | 0.850 | 0.525 | 0.483
 | 0.372 | 0.316 | 0.794
 | 0.710 |
| AD_7' | ADHD | | 1.700 | 0.505
 | 2.929 | | | 0.754
 | 1.217 | 2.558 | 3.227
 | 3.648 | 3.013 | 3.141 | 3.331
 | 3.324 | | 3.390
 | 3.674 |
| AD_8' | ADHD | 0.813 | 0.761 | 0.791
 | 0.736 | 0.884 | 0.823 | 0.864
 | 0.502 | 0.274 | 0.692
 | 2.561 | 0.267 | 0.415 | 0.600
 | 0.743 | 2.366 | 0.172
 | 0.234 |
| AD_9' | ADHD | 0.132 | 1.595 | 0.206
 | 0.234 | 0.323 | |
 | 0.273 | 0.457 | 1.518
 | 0.785 | 1.028 | 1.177 | 0.747
 | 0.733 | 0.641 | 1.269
 | 1.087 |
| AS_1' | Autism | | |
 | | | |
 | 0.717 | 0.609 | 0.350
 | 1.262 | 0.777 | 0.374 | 0.896
 | 1.411 | | 0.645
 | 2.087 |
| AS_2' | Autism | 0.051 | 0.046 | 0.056
 | 0.052 | 0.068 | 0.086 | 0.064
 | 0.072 | 0.046 | 0.142
 | 0.115 | 0.126 | 0.302 | 0.132
 | 0.184 | 0.081 | 0.153
 | 0.131 |
| AS_3' | Autism | 0.170 | 0.010 | 0.493
 | 0.059 | 0.087 | 0.139 | 0.060
 | 0.097 | 0.021 | 0.228
 | 0.268 | 0.031 | 0.277 | 0.349
 | 0.275 | 0.180 | 0.237
 | 0.243 |
| AS_4' | Autism | 2.470 | 1.384 | 2.486
 | | 2.030 | | 1.568
 | 0.310 | 0.036 | 0.286
 | 0.022 | 0.113 | 0.267 | 0.300
 | 0.328 | 0.203 | 0.168
 | 0.076 |
| AS_5' | Autism | 0.305 | 0.221 | 0.385
 | 0.259 | 0.603 | 0.434 | 0.215
 | 0.393 | 0.318 |
 | 0.519 | 0.285 | 0.371 | 0.313
 | | 0.331 |
 | |
| AS_6' | Autism | 0.146 | 0.243 | 0.399
 | | 0.470 | | 0.356
 | 0.169 | 0.315 | 0.318
 | 0.358 | 0.114 | 0.301 | 0.518
 | 0.978 | 0.301 | 0.329
 | 0.561 |
| AS_7' | Autism | 2.059 | 3.782 |
 | 4.719 | | 3.668 | 3.710
 | 3.690 | | 3.431
 | | 2.303 | 3.836 |
 | 3.020 | | 6.807
 | 6.292 |
| AS_8' | Autism | 0.472 | 0.447 | 0.344
 | 0.473 | | 0.890 | 0.307
 | 0.182 | 0.028 | 0.087
 | 0.073 | 0.081 | 0.212 | 0.047
 | 0.138 | 0.155 | 0.115
 | 0.109 |
| AS_9' | Autism | 0.077 | 0.139 | 0.139
 | 0.126 | 0.128 | 0.114 | 0.179
 | 0.020 | 0.096 | 0.392
 | 0.169 | 0.388 | 0.374 | 0.148
 | 0.055 | 0.154 | 0.580
 | 0.660 |
| AS_10' | Autism | 0.122 | 0.207 | 0.278
 | 0.306 | 0.408 | 0.942 | 0.217
 | 2.210 | 0.118 | 0.853
 | 0.400 | 3.212 | 1.661 | 0.253
 | 0.598 | 0.094 | 1.157
 | 1.120 |
| C_1' | Control | 0.043 | 0.040 | 0.069
 | | 0.365 | 0.409 | 0.004
 | 0.164 | 0.276 | 1.243
 | 0.283 | 0.682 | 0.893 | 0.292
 | 1.187 | 0.311 |
 | |
| C_2' | Control | 0.089 | 0.067 | 0.685
 | 0.277 | | 0.397 | 0.155
 | 0.148 | 0.162 | 0.376
 | | 0.351 | 0.373 | 0.450
 | 0.534 | 0.900 |
 | 0.458 |
| C_3' | Control | 0.152 | 0.225 | 0.164
 | 0.397 | 0.165 | | 0.105
 | 0.033 | 0.016 | 0.040
 | 0.368 | 0.015 | 0.030 | 0.313
 | 0.069 | 0.330 | 0.034
 | 0.011 |
| C_4' | Control | 0.139 | 0.116 | 0.112
 | 0.115 | 0.112 | 0.242 | 0.136
 | 0.220 | 0.086 | 0.166
 | 0.202 | 0.654 | 0.422 | 0.226
 | 0.229 | 0.286 | 0.412
 | 0.533 |
| C_5' | Control | 0.113 | 0.352 | 0.164
 | 0.489 | 0.353 | 0.504 | 0.231
 | 0.090 | 0.174 | 0.113
 | 0.618 | 0.189 | 0.053 | 0.394
 | 0.157 | 0.503 | 0.326
 | 0.383 |
| C_6' | Control | 0.264 | 0.308 | 0.081
 | 0.436 | 0.301 | 0.386 | 0.090
 | 0.273 | 0.222 | 0.555
 | 0.984 | 0.292 | 0.431 | 0.265
 | 0.159 | 0.265 | 0.631
 | 0.943 |
| C_7' | Control | 0.059 | 0.142 | 0.054
 | 0.151 | 0.101 | | 0.061
 | 0.030 | 0.117 | 0.028
 | 0.249 | 0.019 | 0.027 | 0.032
 | 0.024 | 0.279 | 0.021
 | 0.049 |
| C_8' | Control | 1.008 | 0.195 | 1.161
 | 0.222 | 0.270 | 0.772 | 0.127
 | 0.147 | 0.033 | 0.146
 | 0.203 | 0.048 | 0.156 | 0.046
 | 0.110 | 0.765 | 0.103
 | 0.107 |
| C_9' | Control | 0.110 | 0.569 | 0.126
 | 0.586 | 0.177 | | 0.317
 | 0.199 | 0.003 | 0.317
 | 0.232 | 0.068 | 0.362 | 0.002
 | | 0.330 | 0.110
 | 0.109 |
| C_10' | Control | 0.093 | 0.120 | 0.072
 | 0.173 | 0.587 | 0.290 | 0.122
 | 0.077 | 0.115 | 0.126
 | 0.317 | 0.012 | 0.080 | 0.129
 | 0.251 | 0.545 | 0.141
 | 0.108 |
| C_11' | Control | | | 0.518
 | 0.279 | 0.899 | 0.351 | 0.258
 | | |
 | | 0.765 | | 0.779
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 | |
| Emotion All U | 1 | 20 | 4 | 25
 | 124 | 34 | 122 | 11
 | 53 | 87 | 59
 | 92 | 68 | 60 | 86
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 | 77 |
| | naligned | 20
F1_EM | 4
F2_EM | 25
F3_EM
 | 124
F4_EM | 34
F7_EM | 122
F8_EM | 11
Fz_EM
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P3_EM | 87
P4_EM | 59
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P10_EM | O1_EM
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| AD_1' | naligned
ADHD | 20
F1_EM
0.095 | 4
F2_EM
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 | 124
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| AD_1'
AD_2' | ADHD
ADHD | 20
F1_EM
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| AD_1'
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| AD_1'
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P4_EM
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TABLE III (continued)

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 | 72 | 77 |
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| Fear-Sad Una | llignea | F1_FS | F2_FS | F3_FS
 | F4_FS | F7_FS | F8_FS | Fz_FS | P3_FS | P4_FS

 | P7_FS
 | P8_FS | POz_FS | PO3_FS
 | PO4_FS | P9_FS | P10_FS
 | 01_FS | O2_FS |
| AD_1' | ADHD | 0.287 | 0.214 | 0.475
 | 0.189 | 0.176 | 0.322 | 0.258 | 0.192 | 0.490

 | 0.275
 | 0.648 | 1.345 | 0.619
 | 1.209 | 0.155 | 0.181
 | 3.445 | 3.037 |
| AD_2' | ADHD | 0.125 | 0.174 | 0.214
 | 0.215 | 0.248 | 0.124 | 0.187 | 0.300 | 0.053

 | 0.448
 | 0.241 | 0.649 | 0.472
 | 0.170 | 0.476 | 0.192
 | 0.679 | 0.381 |
| AD_3' | ADHD | 0.481 | 0.365 | 0.223
 | 0.146 | 0.152 | 0.595 | 0.610 | 0.017 | 0.046

 | 0.061
 | 0.210 | 0.062 | 0.097
 | 0.057 | 0.061 | 0.097
 | 0.070 | 0.072 |
| AD_4' | ADHD | 0.142 | 0.304 | 0.104
 | | | | 0.220 | 0.114 | 0.095

 | 0.575
 | | 0.392 | 0.104
 | 0.306 | 0.685 |
 | 1.024 | |
| AD_5' | ADHD | 0.181 | 0.502 | 0.118
 | 0.367 | 0.197 | 0.379 | 0.054 | 0.213 | 0.122

 | 0.160
 | 0.581 | 0.176 | 0.318
 | 0.114 | 0.116 | 0.437
 | 0.569 | 0.669 |
| AD_6' | ADHD | 0.704 | 0.395 | 0.956
 | 0.488 | 0.329 | 0.286 | 0.238 | 0.205 | 0.693

 | 0.219
 | 0.695 | 0.701 | 0.404
 | 0.674 | 0.397 | 0.607
 | 0.765 | 1.097 |
| AD_7' | ADHD | | 2.216 | 0.331
 | 3.309 | 1.132 | 3.379 | 0.775 | 1.320 | 2.004

 | 3.199
 | 3.023 | 2.655 | 3.118
 | 3.467 | 3.263 | 3.259
 | 3.103 | 3.228 |
| AD_8' | ADHD | 0.490 | 0.547 | 0.462
 | 0.558 | 0.604 | 0.715 | 0.749 | 0.179 | 0.243

 | 0.248
 | 3.446 | 0.122 | 0.128
 | 0.332 | 0.366 | 3.887
 | 0.072 | 0.588 |
| AD_9' | ADHD | 0.350 | 0.814 | 0.231
 | 0.841 | 0.359 | | | 0.783 | 0.431

 |
 | 1.218 | 0.740 | 1.190
 | 0.938 | 1.560 | 1.058
 | 1.718 | 1.843 |
| AS_1' | Autism | | |
 | | | | | 0.218 | 0.341

 | 0.175
 | 0.658 | 0.161 | 0.160
 | 0.682 | 0.347 |
 | 0.208 | 0.541 |
| AS_2' | Autism | 0.062 | 0.091 | 0.087
 | 0.064 | 0.275 | 0.153 | 0.079 | 0.172 | 0.046

 | 0.349
 | 0.117 | 0.217 | 0.392
 | 0.189 | 0.219 | 0.096
 | 0.192 | 0.166 |
| AS_3'
AS 4' | Autism
Autism | 0.082 | 0.011 0.842 | 0.228
 | 0.120 | 0.188 | 0.151 | 0.175 | 0.065 | 0.021

 | 0.233 0.104
 | 0.169 | 0.033 | 0.125
 | 0.169 | 0.322 0.126 | 0.172 0.028
 | 0.172 | 0.327 0.040 |
| A5_4
AS 5' | Autism | 0.317 | 0.658 | 0.212
 | 0.283 | 0.321 | 0.457 | 0.437 | 0.058 | 0.008

 | 0.104
 | 0.387 | 0.001 | 0.038
 | 0.313 | 0.120 | 0.028
 | 0.103 | 0.040 |
| AS_6' | Autism | 0.075 | 0.058 | 0.212
 | 0.265 | 0.321 | 0.437 | 0.437 | 0.107 | 0.328

 | 0.320
 | 0.355 | 0.240 | 0.228
 | 0.330 | 0.937 | 0.350
 | 0.184 | 0.534 |
| AS 7' | Autism | 0.073 | 0.102 | 0.699
 | 0.677 | 0.340 | 1.161 | 0.088 | 1.459 | 1.268

 | 0.355
 | 0.555 | 0.110 | 0.303
 | 0.550 | 1.212 | 1.621
 | 0.339 | 0.334 |
| AS 8' | Autism | 0.396 | 0.395 | 0.260
 | 0.655 | 0.352 | 0.842 | 0.308 | 0.189 | 0.130

 | 0.247
 | 0.423 | 0.192 | 0.564
 | 0.168 | 0.394 | 0.599
 | 0.302 | 0.292 |
| AS_9' | Autism | 0.083 | 0.146 | 0.107
 | 0.105 | 0.161 | 0.042 | 0.147 | 0.132 | 0.054

 | 0.048
 | 0.063 | 0.222 | 0.057
 | 0.061 | 0.104 | 0.107
 | 0.102 | 0.101 |
| AS 10' | Autism | 0.083 | 0.140 | 0.107
 | 0.344 | 0.101 | 0.403 | 0.147 | 1.906 | 0.100

 | 0.040
 | 0.691 | 2.132 | 0.057
 | 0.001 | 0.104 | 0.107
 | 0.956 | 0.101 |
| C_1' | Control | 0.121 | 0.276 | 0.406
 | 0.344 | 0.265 | 0.403 | 0.291 | 0.110 | 0.100

 |
 | 0.181 | 0.220 | 0.645
 | 0.172 | 0.448 | 0.374
 | 0.330 | 0.000 |
| C 2' | Control | 0.037 | 0.045 | 0.219
 | 0.168 | 0.130 | 0.353 | 0.002 | 0.110 | 0.188

 | 0.445
 | 0.101 | 0.322 | 0.445
 | 0.372 | 0.404 | 0.522
 | | 0.362 |
| C_3' | Control | 0.165 | 0.259 | 0.175
 | 0.332 | 0.193 | 0.885 | 0.130 | 0.036 | 0.052

 | 0.049
 | 0.118 | 0.015 | 0.042
 | 0.555 | 0.052 | 0.102
 | 0.043 | 0.018 |
| C 4' | Control | 0.151 | 0.199 | 0.175
 | 0.234 | 0.133 | 0.347 | 0.135 | 0.406 | 0.089

 | 0.277
 | 0.092 | 0.588 | 0.363
 | 0.467 | 0.331 | 0.330
 | 0.221 | 0.171 |
| C_5' | Control | 0.110 | 0.220 | 0.148
 | 0.354 | 0.280 | 0.356 | 0.262 | 0.093 | 0.051

 | 0.106
 | 0.581 | 0.161 | 0.091
 | 0.602 | 0.148 | 0.441
 | 0.372 | 0.493 |
| C_6' | Control | 0.324 | 0.362 | 0.185
 | 0.631 | 0.461 | 0.771 | 0.171 | 0.480 | 0.573

 | 0.200
 | 0.634 | 0.249 | 0.735
 | 0.138 | 0.663 | 0.402
 | 0.548 | 0.661 |
| C 7' | Control | 0.014 | 0.074 | 0.033
 | 0.265 | 0.028 | 0.278 | 0.065 | 0.117 | 0.047

 | 0.093
 | 0.115 | 0.023 | 0.123
 | 0.030 | 0.116 | 0.155
 | 0.125 | 0.116 |
| C 8' | Control | | 0.291 |
 | 0.290 | 0.020 | 0.2.0 | 0.439 | 0.114 | 0.048

 | 0.126
 | 0.293 | 0.083 | 0.127
 | 0.139 | 0.202 | 1.026
 | 0.171 | 0.181 |
| C 9' | Control | 0.169 | 0.294 | 0.258
 | 0.320 | 0.305 | | 0.176 | 0.074 | 0.002

 | 0.084
 | 0.104 | 0.050 | 0.100
 | 0.001 | 0.388 | 0.125
 | 0.056 | 0.078 |
| C 10' | Control | 0.059 | 0.045 | 0.053
 | 0.095 | 0.378 | 0.178 | 0.073 | 0.029 | 0.115

 | 0.068
 | 0.255 | 0.005 | 0.032
 | 0.099 | 0.154 | 0.429
 | 0.096 | 0.091 |
| C_11' | Control | 0.106 | 0.138 | 0.159
 | 0.116 | | 0.389 | 0.172 | | 0.256

 | 0.336
 | 0.148 | 0.242 |
 | 0.198 | 0.527 | 0.516
 | | | | | |
| | | | |
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 |
 | | |
 | | |
 | | |
| | | 20 | 4 | 25
 | 124 | 34 | 122 | 11 | 53 | 87

 | 59
 | 92 | 68 | 60
 | 86 | 58 | 97
 | 72 | 77 |
| Gender All Un | aligned | | | 25
F3_GE
 | 124
F4_GE | 34
F7_GE | 122
F8_GE | 11
Fz_GE | 53
P3_GE |

 |
 | | | 60
PO3_GE
 | 86
PO4_GE | | | |
 | 72
01_GE | 77
02_GE |
| Gender All Un
AD_1' | aligned
ADHD | 20 | 4 |
 | | - | | | | 87

 | 59
 | 92 | 68 |
 | | 58 | 97
 | | |
| | | 20
F1_GE | 4
F2_GE | F3_GE
 | F4_GE | F7_GE | F8_GE | Fz_GE | P3_GE | 87
P4_GE

 | 59
P7_GE
 | 92
P8_GE | 68
POz_GE | PO3_GE
 | PO4_GE | 58
P9_GE | 97
P10_GE
 | 01_GE | O2_GE |
| AD_1'
AD_2'
AD_3' | ADHD | 20
F1_GE
0.458 | 4
F2_GE
0.245
0.095
0.334 | F3_GE
0.424
0.082
0.079
 | F4_GE
0.211 | F7_GE
0.140 | F8_GE
0.350 | Fz_GE
0.258
0.099
0.464 | P3_GE
0.202 | 87
P4_GE
0.472
0.111
0.058

 | 59
P7_GE
0.352
 | 92
P8_GE
0.532
0.222
0.084 | 68
POz_GE
1.368
0.996
0.117 | PO3_GE
0.550
0.431
0.189
 | PO4_GE
0.935 | 58
P9_GE
0.389 | 97
P10_GE
0.277
 | 01_GE
3.370
0.931
0.128 | 02_GE
2.049 |
| AD_1'
AD_2' | ADHD | 20
F1_GE
0.458
0.063 | 4
F2_GE
0.245
0.095 | F3_GE
0.424
0.082
 | F4_GE
0.211
0.117 | F7_GE
0.140
0.105 | F8_GE
0.350 | Fz_GE
0.258
0.099 | P3_GE
0.202
0.274 | 87
P4_GE
0.472
0.111

 | 59
P7_GE
0.352
0.398
 | 92
P8_GE
0.532
0.222 | 68
POz_GE
1.368
0.996 | PO3_GE
0.550
0.431
 | PO4_GE
0.935
0.199 | 58
P9_GE
0.389
0.416 | 97
P10_GE
0.277
0.255
 | 01_GE
3.370
0.931 | 02_GE
2.049
0.609 |
| AD_1'
AD_2'
AD_3'
AD_4'
AD_5' | ADHD
ADHD
ADHD
ADHD
ADHD | 20
F1_GE
0.458
0.063
0.446
0.057
0.168 | 4
F2_GE
0.245
0.095
0.334
0.080
0.252 | F3_GE
0.424
0.082
0.079
0.095
0.135
 | F4_GE
0.211
0.117
0.061
0.176 | F7_GE
0.140
0.105
0.077
0.145 | F8_GE
0.350
0.099
0.225 | Fz_GE
0.258
0.099
0.464
0.104
0.065 | P3_GE
0.202
0.274
0.056
0.066
0.069 | 87
P4_GE
0.472
0.111
0.058
0.119
0.069

 | 59
P7_GE
0.352
0.398
0.172
0.177
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 | 92
P8_GE
0.532
0.222
0.084
0.211
0.227 | 68
POz_GE
1.368
0.996
0.117
0.199
0.053 | PO3_GE
0.550
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0.189
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 | PO4_GE
0.935
0.199
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0.065 | 58
P9_GE
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0.352 |
| AD_1'
AD_2'
AD_3'
AD_4' | ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD | 20
F1_GE
0.458
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0.446
0.057 | 4
F2_GE
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0.095
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0.080
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0.063 | F3_GE
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 | F4_GE
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0.049 | F7_GE
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0.105
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0.145
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0.104 | P3_GE
0.202
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0.165 | 87
P4_GE
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 | 59
P7_GE
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P8_GE
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POz_GE
1.368
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0.117
0.199 | PO3_GE
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 | PO4_GE
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0.199
0.076 | 58
P9_GE
0.389
0.416
0.167
0.305 | 97
P10_GE
0.277
0.255
0.077
 | 01_GE
3.370
0.931
0.128
0.656 | 02_GE
2.049
0.609
0.088 |
| AD_1'
AD_2'
AD_3'
AD_4'
AD_5'
AD_6'
AD_6' | ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD | 20
F1_GE
0.458
0.063
0.446
0.057
0.168
0.155 | 4
F2_GE
0.245
0.095
0.334
0.080
0.252
0.063
1.057 | F3_GE
0.424
0.082
0.079
0.095
0.135
0.203
0.480
 | F4_GE
0.211
0.117
0.061
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0.049
1.986 | F7_GE
0.140
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0.145
0.130
0.537 | F8_GE
0.350
0.099
0.225
0.042
2.204 | Fz_GE
0.258
0.099
0.464
0.104
0.065
0.074
2.309 | P3_GE
0.202
0.274
0.056
0.066
0.069
0.165
0.887 | 87
P4_GE
0.472
0.111
0.058
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0.069
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 | 59
P7_GE
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0.172
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0.270
2.396
 | 92
P8_GE
0.532
0.222
0.084
0.211
0.227
0.332
3.041 | 68
POz_GE
1.368
0.996
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0.199
0.053
1.265
2.527 | PO3_GE
0.550
0.431
0.189
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2.360
 | PO4_GE
0.935
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0.590
2.809 | 58
P9_GE
0.389
0.416
0.167
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0.088
0.281
2.406 | 97
P10_GE
0.277
0.255
0.077
0.152
0.327
 | 01_GE
3.370
0.931
0.128
0.656
0.274
0.917
2.938 | O2_GE
2.049
0.609
0.088
0.352
1.104
3.190 |
| AD_1'
AD_2'
AD_3'
AD_4'
AD_5'
AD_6'
AD_7'
AD_8' | ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD | 20
F1_GE
0.458
0.063
0.446
0.057
0.168
0.155
0.365 | 4
F2_GE
0.245
0.095
0.334
0.080
0.252
0.063
1.057
0.373 | F3_GE
0.424
0.082
0.079
0.095
0.135
0.203
0.480
0.363
 | F4_GE
0.211
0.117
0.061
0.176
0.049
1.986
0.381 | F7_GE
0.140
0.105
0.077
0.145
0.130
0.537
0.647 | F8_GE 0.350 0.099 0.225 0.042 | Fz_GE
0.258
0.099
0.464
0.104
0.065
0.074
2.309
0.276 | P3_GE
0.202
0.274
0.056
0.066
0.069
0.165
0.887
0.087 | 87
P4_GE
0.472
0.111
0.058
0.119
0.069
0.258
1.873
0.125

 | 59
P7_GE
0.352
0.398
0.172
0.177
0.105
0.270
2.396
0.084
 | 92
P8_GE
0.532
0.222
0.084
0.211
0.227
0.332
3.041
1.579 | 68
POz_GE
1.368
0.996
0.117
0.199
0.053
1.265
2.527
0.074 | PO3_GE
0.550
0.431
0.189
0.056
0.115
0.681
2.360
0.053
 | PO4_GE
0.935
0.199
0.076
0.065
0.590
2.809
0.305 | 58
P9_GE
0.389
0.416
0.167
0.305
0.088
0.281
2.406
0.094 | 97
P10_GE
0.277
0.255
0.077
0.152
0.327
1.487
 | O1_GE
3.370
0.931
0.128
0.656
0.274
0.917
2.938
0.041 | O2_GE
2.049
0.609
0.088
0.352
1.104
3.190
0.139 |
| AD_1'
AD_2'
AD_3'
AD_4'
AD_5'
AD_6'
AD_7'
AD_8'
AD_9' | ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD | 20
F1_GE
0.458
0.063
0.446
0.057
0.168
0.155 | 4
F2_GE
0.245
0.095
0.334
0.080
0.252
0.063
1.057 | F3_GE
0.424
0.082
0.079
0.095
0.135
0.203
0.480
 | F4_GE
0.211
0.117
0.061
0.176
0.049
1.986 | F7_GE
0.140
0.105
0.077
0.145
0.130
0.537 | F8_GE
0.350
0.099
0.225
0.042
2.204 | Fz_GE
0.258
0.099
0.464
0.104
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0.074
2.309 | P3_GE
0.202
0.274
0.056
0.066
0.069
0.165
0.887
0.087
0.405 | 87
P4_GE
0.472
0.111
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0.119
0.069
0.258
1.873
0.125
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 | 59
P7_GE
0.352
0.398
0.172
0.177
0.105
0.270
2.396
0.084
0.544
 | 92
P8_GE
0.532
0.222
0.084
0.211
0.227
0.332
3.041
1.579
0.429 | 68
POz_GE
1.368
0.996
0.117
0.199
0.053
1.265
2.527
0.074
0.536 | PO3_GE
0.550
0.431
0.189
0.056
0.115
0.681
2.360
0.053
0.466
 | PO4_GE
0.935
0.199
0.076
0.065
0.590
2.809
0.305
0.596 | 58
P9_GE
0.389
0.416
0.167
0.305
0.088
0.281
2.406
0.094
0.816 | 97
P10_GE
0.277
0.255
0.077
0.152
0.327
 | O1_GE
3.370
0.931
0.128
0.656
0.274
0.917
2.938
0.041
0.685 | O2_GE
2.049
0.609
0.088
0.352
1.104
3.190
0.139
0.766 |
| AD_1'
AD_2'
AD_3'
AD_4'
AD_5'
AD_6'
AD_7'
AD_8'
AD_9'
AD_9' | ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD | 20
F1_GE
0.458
0.063
0.446
0.057
0.168
0.155
0.365
0.224 | 4
F2_GE
0.245
0.095
0.334
0.080
0.252
0.063
1.057
0.373
1.021 | F3_GE
0.424
0.082
0.079
0.095
0.135
0.203
0.480
0.363
0.335
 | F4_GE
0.211
0.117
0.061
0.176
0.049
1.986
0.381
0.643 | F7_GE 0.140 0.105 0.077 0.145 0.130 0.537 0.647 0.426 | F8_GE
0.350
0.099
0.225
0.042
2.204
0.414 | Fz_GE
0.258
0.099
0.464
0.104
0.065
0.074
2.309
0.276
0.551 | P3_GE
0.202
0.274
0.056
0.066
0.069
0.165
0.887
0.087
0.405
0.111 | 87
P4_GE
0.472
0.111
0.058
0.119
0.069
0.258
1.873
0.125
0.366
0.275

 | 59
P7_GE
0.352
0.398
0.172
0.177
0.105
0.270
2.396
0.084
0.544
0.120
 | 92
P8_GE
0.532
0.222
0.084
0.211
0.227
0.332
3.041
1.579
0.429
0.547 | 68
PO2_GE
1.368
0.996
0.117
0.199
0.053
1.265
2.527
0.074
0.536
0.117 | PO3_GE
0.550
0.431
0.189
0.056
0.115
0.681
2.360
0.053
0.466
0.113
 | PO4_GE
0.935
0.199
0.076
0.065
0.590
2.809
0.305
0.596
0.408 | 58
P9_GE
0.389
0.416
0.167
0.305
0.088
0.281
2.406
0.094
0.816
0.242 | 97
P10_GE
0.277
0.255
0.077
0.152
0.327
1.487
0.341
 | D1_GE
3.370
0.931
0.128
0.656
0.274
0.917
2.938
0.041
0.685
0.219 | O2_GE
2.049
0.609
0.088
0.352
1.104
3.190
0.139
0.766
0.285 |
| AD_1'
AD_2'
AD_3'
AD_4'
AD_5'
AD_5'
AD_7'
AD_8'
AD_9'
AS_1'
AS_1' | ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD
ADHD | 20
F1_GE
0.458
0.063
0.446
0.057
0.168
0.155
0.365
0.224
0.145 | 4
F2_GE
0.245
0.095
0.334
0.080
0.252
0.063
1.057
0.373
1.021
0.102 | F3_GE
0.424
0.082
0.079
0.095
0.135
0.203
0.480
0.363
0.335
 | F4_GE
0.211
0.117
0.061
0.176
0.049
1.986
0.381
0.643 | F7_GE 0.140 0.105 0.077 0.145 0.130 0.537 0.647 0.426 0.169 | F8_GE
0.350
0.099
0.225
0.042
2.204
0.414
0.128 | Fz_GE
0.258
0.099
0.464
0.104
0.065
0.074
2.309
0.276
0.551 | P3_GE
0.202
0.274
0.056
0.066
0.069
0.165
0.887
0.087
0.405
0.111
0.140 | 87
P4_GE
0.472
0.111
0.058
0.119
0.069
0.258
1.873
0.125
0.366
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 | 59 P7_GE 0.352 0.398 0.172 0.177 0.105 0.270 2.396 0.084 0.544 0.120 0.208
 | 92
98_GE
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3.041
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0.165 | 68
POz_GE
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 | PO4_GE
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0.065
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0.305
0.596
0.408
0.132 | 58 P9_GE 0.389 0.416 0.167 0.305 0.088 0.281 2.406 0.094 0.816 0.242 | 97
P10_GE
0.277
0.255
0.077
0.152
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0.1487
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 | O1_GE
3.370
0.931
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| AD_1'
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0.083 | 4
F2_GE
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0.880
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0.373
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0.102
0.005 | F3_GE 0.424 0.082 0.079 0.095 0.135 0.203 0.480 0.363 0.335 0.089 0.221
 | F4_GE 0.211 0.117 0.061 0.076 0.049 1.986 0.381 0.643 0.066 0.044 | F7_GE 0.140 0.105 0.077 0.145 0.130 0.537 0.647 0.426 0.169 0.0600 | F8_GE
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P9_GE
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P10_GE
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F2_GE
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0.181 | F3_GE 0.424 0.082 0.079 0.135 0.203 0.480 0.335 0.038 0.303 0.203 0.125
 | F4_GE 0.211 0.117 0.061 0.176 0.049 1.986 0.381 0.643 0.066 0.044 0.141 | F7_GE
0.140
0.105
0.077
0.145
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0.647
0.426
0.169
0.060
0.178 | F8_GE 0.350 0.099 0.225 0.042 2.204 0.414 0.128 0.078 | Fz_GE 0.258 0.099 0.464 0.104 0.065 0.074 2.309 0.276 0.551 0.111 0.085 0.131 | P3_GE
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 | F4_GE 0.211 0.117 0.061 0.176 0.049 1.986 0.381 0.643 0.066 0.044 | F7_GE 0.140 0.105 0.077 0.145 0.130 0.537 0.647 0.426 0.169 0.060 0.178 0.093 | F8_GE
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 | PO4_GE
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P9_GE
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P10_GE
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| AD_1' AD_2' AD_3' AD_6' AD_6' AD_5' AD_6' AD_7' AD_8' AD_8' AD_8' AD_8' AD_8' AD_8' AD_8' AS_1' AS_3' AS_5' AS_5' AS_5' | ADHD
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F1_GE
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0.238 | F3_CE 0.424 0.082 0.079 0.095 0.135 0.203 0.480 0.363 0.335 0.089 0.2152 0.059 0.100
 | F4_GE 0.211 0.117 0.061 0.076 0.049 1.986 0.381 0.643 0.066 0.044 0.136 | F7_CE
0.140
0.105
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0.089 | F8_GE
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0.078
0.186 | Fz_GE 0.258 0.099 0.464 0.104 0.065 0.076 0.551 0.111 0.085 0.131 0.093 0.628 | P3_GE
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P4_GE
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P7_GE
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POz_GE
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P9_GE
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 | F4_GE 0.211 0.117 0.061 0 0.176 0.049 1.986 0.381 0.066 0.044 0.141 0.136 0.268 | F7_GE 0.140 0.105 0.077 0.145 0.130 0.537 0.647 0.426 0.169 0.060 0.178 0.093 | F8_GE 0.350 0.099 0.225 0.042 2.204 0.414 0.128 0.078 | Fz_GE 0.258 0.099 0.464 0.065 0.074 2.309 0.276 0.551 0.111 0.085 0.131 0.093 0.628 0.256 | P3_GE
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 | F4_GE 0.211 0.117 0.061 0 0.076 0.049 1.986 0.381 0.066 0.044 0.136 0.268 0.385 | F7_GE 0.140 0.105 0.077 0.145 0.130 0.537 0.647 0.426 0.169 0.600 0.178 0.089 0.422 | F8_GE 0.350 0.099 0.225 0.042 2.204 0.414 0.128 0.078 0.186 0.546 | F₂_GE 0.258 0.099 0.464 0.065 0.074 2.309 0.276 0.551 0.111 0.085 0.131 0.093 0.628 0.256 0.332 | P3_GE
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 | F4_GE 0.211 0.117 0.061 0.176 0.049 1.986 0.381 0.643 0.066 0.044 0.136 0.2568 0.385 0.040 | F7_GE 0.140 0.105 0.077 0.145 0.130 0.537 0.647 0.426 0.060 0.178 0.089 0.492 0.085 | F8_GE 0.350 0.099 0.225 0.042 2.204 0.414 0.128 0.078 0.186 0.546 0.046 | Fz_GE 0.258 0.099 0.464 0.104 0.065 0.074 2.309 0.276 0.551 0.111 0.085 0.131 0.093 0.628 0.322 0.090 | P3_GE
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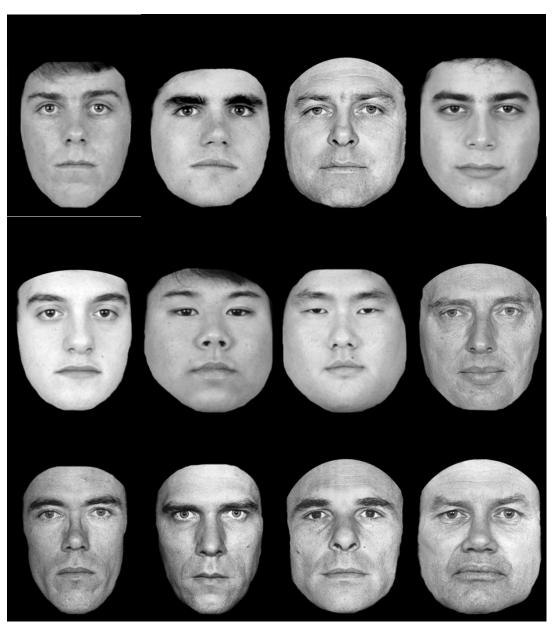
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 | F4_GE 0.211 0.117 0.061 0.061 0.076 0.176 0.049 1.986 0.381 0.643 0.643 0.064 0.044 0.136 0.268 0.385 0.400 0.172 0.049 0.160 0.433 0.134 | F7_GE
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P8_GE
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APPENDIX III – FACIAL IMAGES

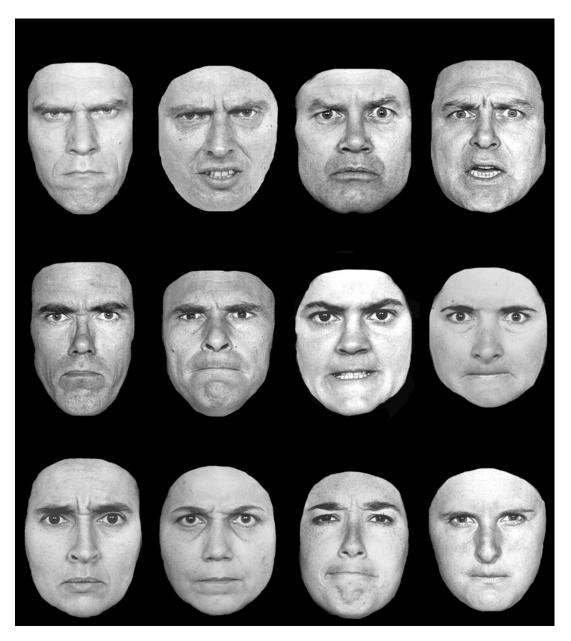
Male Neutral Faces



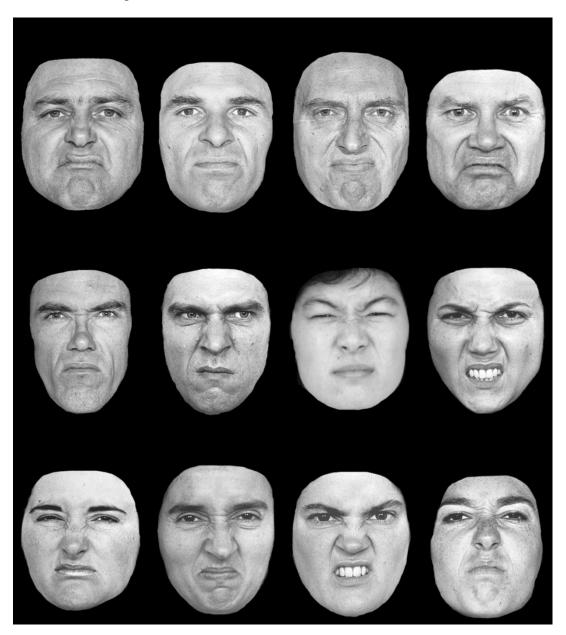
Female Neutral Faces



Male/Female Angry Faces



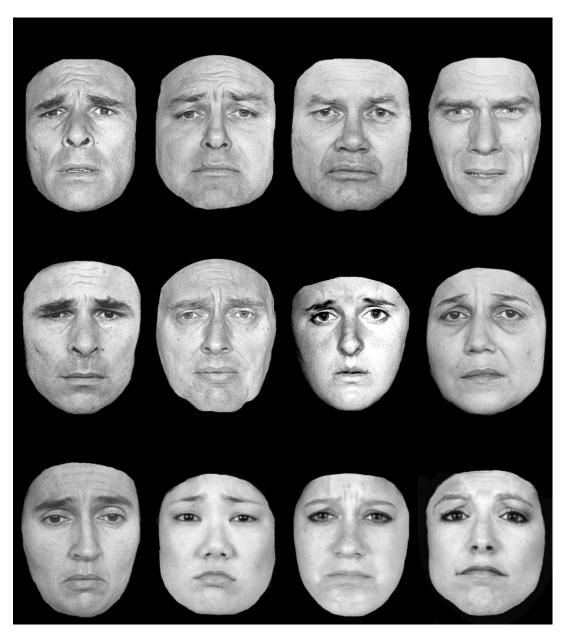
Male/Female Disgusted Faces



Male/Female Fearful Faces



Male/Female Sad Faces



VITA

Eric Gross is currently completing his Masters of Engineering degree in Bioengineering at the University of Louisville J.B. Speed School of Engineering. He received his Bachelors of Science degree in Bioengineering from the University of Louisville in May of 2011. Notable honors and awards include receiving the Grawemeyer Scholarship, the Ronald C. Ernst Award, the Mickey R. Wilhelm Achievement Award, the Jerry and Pat Sturgeon Academic Excellent Award, and graduating with Highest Honors in his undergraduate class. The work presented in this thesis is expected to be published in the second quarter issue of the *Journal of Neurotherapy* in 2012. Eric plans to pursue a career in medicine following his graduation.