SUPPLEMENTARY INFORMATION TO:

THETA AND ALPHA ACTIVITY ARE DIFFERENTIALLY ASSOCIATED WITH PHYSIOLOGICAL AND RATING SCALE MEASURES OF AFFECT AND ATTENTION IN ADOLESCENTS WITH BUT NOT WITHOUT ADHD

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| Table S1 | | | | | | | | | | | | |
| *Bivariate correlations among alpha activity and outcome variables.* | | | | | | | | | | | | |
|  | | | LPP | NA† | PA | ED† | ED-P | IA† | | | Age | Sex |
| RS variables | | | | | | | | | | | | |
| frontal-midline | *r* (*p*) | | -.090 (.311) | -.161 (.065) | .064 (.470) | **-.176 (.044)** | -.024 (.790) | -.142 (.104) | | | -.137 (.124) | -.170 (.055) |
| Bootstrap | Bias (SE) | .000 (.103) | .001 (.089) | .003 (.098) | -.002 (.086) | .001 (.092) | .001 (.085) | | | -.002 (.076) | .002 (.088) |
| 95% CI | -.276; .131 | -.331; .020 | -.127; .245 | -.348; .002 | -.209; .154 | -.305; .025 | | | -.280; .008 | -.343; .001 |
| centroparietal | *r* (*p*) | | -.102 (.251) | -.136 (.119) | .028 (.757) | **-.192 (.028)** | -.023 (.795) | -.080 (.362) | | | -.159 (.074) | -.114 (.202) |
| Bootstrap | Bias (SE) | .000 (.095) | .003 (.088) | .003 (.105) | .001 (.086) | -.001 (.095) | .003 (.088) | | | .002 (.079) | .003 (.093) |
| 95% CI | -.283; .096 | -.303; .040 | -.171; .229 | -.365; -.020 | -.201; .164 | -.254; .107 | | | -.303; .005 | -.288; .072 |
| right parietal | *r* (*p*) | | -.151 (.089) | -.136 (.119) | -.023 (.797) | -.160 (.068) | **.175(.049)** | -.085 (.333) | | | -.094 (.289) | **-.214(.015)** |
| Bootstrap | Bias (SE) | -.003 (.103) | .000 (.085) | .006 (.115) | .000 (.084) | -.002 (.091) | .000 (.088) | | | -.001 (.085) | .004 (.093) |
| 95% CI | -.362; .054 | -.298; .044 | -.232; .212 | -.323; .012 | -.006; .347 | -.258; .092 | | | -.261; .075 | -.389; -.032 |
| left parietal† | *r* (*p*) | | -.073 (.403) | -.090 (.307) | .015 (.867) | -.117 (.183) | -.096 (.272) | -.049 (.577) | | | -.143 (.107) | -.005 (.956) |
| Bootstrap | Bias (SE) | .001 (.087) | .001 (.094) | .002 (.088) | -.002 (.084 | .000 (.091) | -.002 (.096) | | | -.002 (.096) | .002 (.113) |
| 95% CI | -.230; .108 | -.267; .089 | -.153; .188 | -.270; .052 | -.276; .088 | -.330; .033 | | | -.330; .033 | -.223; .212 |
| Synchronization variables | | | | | | | | | | | | |
| frontal-midline | *r* (*p*) | | -.141 (.112) | -.068 (.440) | .000 (.996) | .040 (.647) | -.162 (.068) | | -.142 (.104) | .161 (.069) | | .147 (.098) |
| Bootstrap | Bias (SE) | .006 (.080) | -.001 (.090) | -.002 (.092) | .000 (.085) | -.001 (.082) | | .001 (.085 | -.005 (.079) | | .002 (.089) |
| 95% CI | -.284; .027 | -.247; .108 | -.186; .176 | -.128,.207 | -.324; .004 | | -.305; .025 | -.001 ;.306 | | -.030; .317 |
| centroparietal | *r* (*p*) | | -.085 (.340) | .007 (.933) | .122 (.171) | .019 (.832) | **-.204(.021)** | | -.080 (.362) | -.029 (.744) | | .066 (.460) |
| Bootstrap | Bias (SE) | .003 (.084) | .000 (.092) | .002 (.093) | -.001 (.093) | -.003 (.096) | | .003 (.088) | -.001 (.085) | | .007 (.102) |
| 95% CI | -.240; .088 | -.183; .184 | -.059; .301 | -.176; .191 | -.388; -.012 | | -.254; .107 | | -.197; .145 | -.135; .266 |
| right parietal† | *r* (*p*) | | -.099 (.259) | .071 (.420) | .030 (.734) | **.180 (.039)** | **-.173 (.047)** | | -.085 (.333) | | -.042 (.637) | .012 (.897) |
| Bootstrap | Bias (SE) | .000 (.087) | -.001 (091) | .004 (.090) | -.002 (.090) | .001 (.089) | | .000 (.088) | | -.001 (.085) | -.001 (.086) |
| 95% CI | .079; -.073 | -.107; .246 | -.144; .207 | -.007; .354 | -.342; .015 | | -.258; .092 | | -.212; .120 | -.147; .189 |
| left parietal† | *r* (*p*) | | -.066 (.451) | .100 (.252) | -.021 (.811) | .084 (.336) | -.006 (.941) | | .041 (.638) | | -.061 (.497) | .010 (.907) |
| Bootstrap | Bias (SE) | .004 (.089) | -.002 (.087) | .002 (.097) | .000 (.090) | .004 (.089) | | .006 (.088) | | -.002 (.087) | .004 (.092) |
| 95% CI | -.237 (.115) | -.081 (.265) | -.205 (.172) | -.093 (.254) | -.177 (.183) | | -.131 (.213) | | -.233; .111 | -.162; .198 |
| *Note.* LPP=late positive potential; NA=negative affectivity; PA=positive affectivity; ED=affective dysregulation; ED-P=parent-rated affective dysregulation; IA=parent-rated inattention; RS=resting state. Correlations significant at *p*<.05 are in bold. All correlations calculated using Pearson’s *r*, unless otherwise indicated. †=Correlations involving marked variable are calculated using Spearman’s rho. | | | | | | | | | | | | |

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| Table S2 | | | | | | | | | | | |
| *Bivariate correlations among theta activity and outcome variables.* | | | | | | | | | | | |
|  | | | LPP | | NA† | PA | ED† | ED-P | IA† | Age | Sex |
| RS variables | | | | | | | | | | | |
| frontal-midline | *r* (*p*) | | | -.164 (.064) | .053 (.545) | -.117 (.187) | .066 (.455) | .082 (.359) | -.020 (.822) | -.149 (.094) | -.164 (.064) |
| Bootstrap | Bias (SE) | .012 (.117) | | -.002 (.092) | .013 (.127) | -.001 (.088) | -.011 (.100) | .001 (.089) | .006 (.105) | .005 (.083) |
| 95% CI | | -.374; .083 | -.119; .243 | -.338; .133 | -.106; .243 | -.119; .258 | -.195; 156 | -.351; .057 | -.316; .016 |
| centroparietal† | *r* (*p*) | | | -.141 (.106) | .033 (.707) | .000 (.996) | .045 (.611) | .034 (.698) | .005 (.956) | -.151 (.089) | -.133 (.135) |
| Bootstrap | Bias (SE) | .000 (.091) | | -.001 (.089) | .004 (.092) | .000 (.085) | .007 (.091) | -.001 (.086) | .006 (.112) | .004 (.080) |
| 95% CI | | -.318; .041 | -.147; .203 | -.167; .199 | -.121; .204 | -.144; .222 | -.164; .180 | -.366; .074 | -.280; .039 |
| right parietal† | *r* (*p*) | | | -.186 (.033) | .018 (.839) | .017 (.847) | .020 (.817) | -.005 (.952) | .033 (.706) | **-.190**(**.032**) | **-.175** (**.048**) |
| Bootstrap | Bias (SE) | .001 (.083) | | .001 (.091) | .002 (.091) | .002 (.085) | .005 (.092) | .002 (.089) | .010 (.112) | .006 (.072) |
| 95% CI | | -.344; -.018 | -.161; .189 | -.152; .2070 | -.142; .188 | -.183; .176 | -.138; .198 | -.387; .030 | -.312; -.024 |
| left parietal† | *r* (*p*) | | | -.148 (.091) | .083 (.346) | .016 (.859) | .043 (.622) | .001 (.993) | -.011 (.902) | -.142 (.110) | -.057 (.523) |
| Bootstrap | Bias (SE) | .000 (.087) | | -.001 (.088) | .005 (.093) | -.002 (.088) | .007 (.089) | .000 (.088) | -.001 (.114) | -.004 (.104) |
| 95% CI | | -.308; .023 | -.086; .253 | -.172; .204 | -.137; .210 | -.157; .185 | -.183; .171 | -.363; .072 | -.253; .143 |
| Synchronization variables | | | | | | | | | | | |
| frontal-midline | *r* (*p*) | | | -.162 (.067) | **-.184 (.035)** | -.067 (.449) | **-.218 (.012)** | -.145 (.103) | -.092 (.293) | **.189**(**.033**) | .095 (.287) |
| Bootstrap | Bias (SE) | .002 (.081) | | -.003 (.084) | -.001 (.078) | -.002 (.078) | -.004 (.077) | -.001 (.084) | -.001 (.080) | .000 (.093) |
| 95% CI | | -.317; -.007 | -.351; -.023 | -.221; .090 | -.381; -.068 | -.300; -.002 | -.256; .069 | .018; .345 | -.092; .282 |
| centroparietal† | *r* (*p*) | | | -.115 (.188) | -.110 (.211) | -.019 (.826) | -.138 (.116) | **-.213 (.014)** | -.056 (.524) | .012 (.891) | .003 (.971) |
| Bootstrap | Bias (SE) | .004 (.092) | | .004 (.086) | -.003 (.089) | .005 (.087) | .004 (.085) | .003 (.092) | .002 (.089) | .001 (.094) |
| 95% CI | | -.286; .072 | -.272; .066 | -.197; .154 | -.305; .048 | -.381; -.032 | -.237; .128 | -.156; .199 | -.182; .193 |
| right parietal† | *r* (*p*) | | | -.151 (.085) | -.135 (.122) | .030 (.734) | **-.189 (.030)** | **-.217 (.012)** | -.087 (.321) | -.042 (.637) | -.032 (.718) |
| Bootstrap | Bias (SE) | .003 (.090) | | .001 (.084) | .000 (.094) | .001 (.086) | .003 (.084) | -.001 (.092) | .007 (.086) | .005 (.080) |
| 95% CI | | -.324; .038 | -.299; .042 | -.165; .208 | -.351; -.004 | -.380; -.048 | -.279; .091 | -.201; .134 | -.182; .143 |
| left parietal† | *r* (*p*) | | | -.122 (.163) | -.152 (.081) | -.049 (.575) | -.131 (.136) | -.169 (.053) | -.105 (.230) | -.029 (.744) | .022 (.803) |
| Bootstrap | Bias (SE) | .006 (.085) | | .000(.083) | .000 (.087) | .000 (.082) | -.002 (.081) | -.001 (.084) | .000 (.089) | .002 (.092) |
| 95% CI | | -.286, .040 | -.307; .011 | -.211; .131 | -.288; .026 | -.328; -.006 | -.275; .062 | -.210; .140 | -.155; .206 |
| *Note.* LPP=late positive potential; NA=negative affectivity; PA=positive affectivity; ED=affective dysregulation; ED-P=parent-rated affective dysregulation; IA=parent-rated inattention; RS=resting state. Correlations significant at *p*<.05 are in bold. All correlations calculated using Pearson’s *r*, unless otherwise indicated. †=Correlations involving marked variable are calculated using Spearman’s rho. | | | | | | | | | | | |