

ABCD Human Subject Study

Adolescent Brain Cognitive Development – ABCDSTUDY.org

Release Notes for Annual Release 1.1

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Supplementary Imaging Tables

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General Information

The following information refers to the Adolescent Brain Cognitive Development (ABCD) Study October 2018 patch release (ABCD Release 1.1) available from <https://data-archive.nimh.nih.gov/abcd>. An overview of the ABCD Study is at <https://abcdstudy.org> and detailed descriptions of elements of the study are listed in <https://abcdstudy.org/scientists-publications.html>.

This document describes the contents of various instruments available for download. To understand the context of this information, see *Release Notes ABCD README FIRST* and *Release Notes ABCD Imaging Instruments*.

This supplementary material features ROI names and descriptions for subcortical regions (aseg), cortical parcels (Desikan and Gordon), and fiber tracts (AtlasTrack); task fMRI contrasts of conditions (MID, SST, and nBack); names and descriptions of RSI measures.

Table 1. Cortical regions defined by anatomical parcellation (aparc) included in sMRI, dMRI, and fMRI analyses.

Desikan, R.S., Segonne, F., Fischl, B., Quinn, B.T., Dickerson, B.C., Blacker, D., Buckner, R.L., Dale, A.M., Maguire, R.P., Hyman, B.T., Albert, M.S., Killiany, R.J. (2006) An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. *Neuroimage*, 31:968-80.

ROI name	Description
lh-bankssts	Banks superior temporal sulcus (left hemisphere)
lh-caudalanteriorcingulate	Caudal anterior-cingulate cortex (left hemisphere)
lh-caudalmiddlefrontal	Caudal middle frontal gyrus (left hemisphere)
lh-cuneus	Cuneus cortex (left hemisphere)
lh-entorhinal	Entorhinal cortex (left hemisphere)
lh-fusiform	Fusiform gyrus (left hemisphere)
lh-inferiorparietal	Inferior parietal cortex (left hemisphere)
lh-inferiortemporal	Inferior temporal gyrus (left hemisphere)
lh-isthmuscingulate	Isthmus-cingulate cortex (left hemisphere)

lh-lateraloccipital	Lateral occipital cortex (left hemisphere)
lh-lateralorbitofrontal	Lateral orbital frontal cortex (left hemisphere)
lh-lingual	Lingual gyrus (left hemisphere)
lh-medialorbitofrontal	Medial orbital frontal cortex (left hemisphere)
lh-middletemporal	Middle temporal gyrus (left hemisphere)
lh-parahippocampal	Parahippocampal gyrus (left hemisphere)
lh-paracentral	Paracentral lobule (left hemisphere)
lh-parsopercularis	Pars opercularis (left hemisphere)
lh-parsorbitalis	Pars orbitalis (left hemisphere)
lh-parstriangularis	Pars triangularis (left hemisphere)
lh-pericalcarine	Pericalcarine cortex (left hemisphere)
lh-postcentral	Postcentral gyrus (left hemisphere)
lh-posteriorcingulate	Posterior-cingulate cortex (left hemisphere)
lh-precentral	Precentral gyrus (left hemisphere)
lh-precuneus	Precuneus cortex (left hemisphere)
lh-rostralanteriorcingulate	Rostral anterior cingulate cortex (left hemisphere)
lh-rostralmiddlefrontal	Rostral middle frontal gyrus (left hemisphere)
lh-superiorfrontal	Superior frontal gyrus (left hemisphere)
lh-superiorparietal	Superior parietal cortex (left hemisphere)
lh-superiortemporal	Superior temporal gyrus (left hemisphere)
lh-supramarginal	Supramarginal gyrus (left hemisphere)
lh-frontalpole	Frontal pole (left hemisphere)
lh-temporalpole	Temporal pole (left hemisphere)
lh-transversetemporal	Transverse temporal cortex (left hemisphere)
rh-bankssts	Banks superior temporal sulcus (right hemisphere)
rh-caudalanteriorcingulate	Caudal anterior-cingulate cortex (right hemisphere)
rh-caudalmiddlefrontal	Caudal middle frontal gyrus (right hemisphere)
rh-cuneus	Cuneus cortex (right hemisphere)

rh-entorhinal	Entorhinal cortex (right hemisphere)
rh-fusiform	Fusiform gyrus (right hemisphere)
rh-inferiorparietal	Inferior parietal cortex (right hemisphere)
rh-inferiortemporal	Inferior temporal gyrus (right hemisphere)
rh-isthmuscingulate	Isthmus-cingulate cortex (right hemisphere)
rh-lateraloccipital	Lateral occipital cortex (right hemisphere)
rh-lateralorbitofrontal	Lateral orbital frontal cortex (right hemisphere)
rh-lingual	Lingual gyrus (right hemisphere)
rh-medialorbitofrontal	Medial orbital frontal cortex (right hemisphere)
rh-middletemporal	Middle temporal gyrus (right hemisphere)
rh-parahippocampal	Parahippocampal gyrus (right hemisphere)
rh-paracentral	Paracentral lobule (right hemisphere)
rh-parsopercularis	Pars opercularis (right hemisphere)
rh-parsorbitalis	Pars orbitalis (right hemisphere)
rh-parstriangularis	Pars triangularis (right hemisphere)
rh-pericalcarine	Pericalcarine cortex (right hemisphere)
rh-postcentral	Postcentral gyrus (right hemisphere)
rh-posteriorcingulate	Posterior-cingulate cortex (right hemisphere)
rh-precentral	Precentral gyrus (right hemisphere)
rh-precuneus	Precuneus cortex (right hemisphere)
rh-rostralanteriorcingulate	Rostral anterior cingulate cortex (right hemisphere)
rh-rostralmiddlefrontal	Rostral middle frontal gyrus (right hemisphere)
rh-superiorfrontal	Superior frontal gyrus (right hemisphere)
rh-superiorparietal	Superior parietal cortex (right hemisphere)
rh-superiortemporal	Superior temporal gyrus (right hemisphere)
rh-supramarginal	Supramarginal gyrus (right hemisphere)
rh-frontalpole	Frontal pole (right hemisphere)
rh-temporalpole	Temporal pole (right hemisphere)

rh-transversetemporal Transverse temporal cortex (right hemisphere)

Table 2. Subcortical regions labeled by automated segmentation (aseg) included in sMRI, dMRI, and fMRI analyses.

Fischl, B., Salat, D.H., Busa, E., Albert, M., Dieterich, M., Haselgrove, C., van der Kouwe, A., Killiany, R., Kennedy, D., Klaveness, S., Montillo, A., Makris, N., Rosen, B., Dale, A.M. (2002) Whole brain segmentation: automated labeling of neuroanatomical structures in the human brain. *Neuron*, 33:341-55.

ROI name	Description
left-cerebral-white-matter	Cerebral white matter (left hemisphere)
left-lateral-ventricle	Lateral ventricle (left hemisphere)
left-inf-lat-vent	Inferior lateral ventricle (left hemisphere)
left-cerebellum-white-matter	Cerebellum white matter (left hemisphere)
left-cerebellum-cortex	Cerebellum grey matter (left hemisphere)
left-thalamus-proper	Thalamus (left hemisphere)
left-caudate	Caudate (left hemisphere)
left-putamen	Putamen (left hemisphere)
left-pallidum	Pallidum (left hemisphere)
left-hippocampus	Hippocampus (left hemisphere)
left-amygdala	Amygdala (left hemisphere)
left-accumbens-area	Accumbens (left hemisphere)
left-ventraldc	Ventral diencephalon (left hemisphere)
right-cerebral-white-matter	Cerebral white matter (right hemisphere)
right-lateral-ventricle	Lateral ventricle (right hemisphere)
right-inf-lat-vent	Inferior lateral ventricle (right hemisphere)
right-cerebellum-white-matter	Cerebellum white matter (right hemisphere)

right-cerebellum-cortex	Cerebellum grey matter (right hemisphere)
right-thalamus-proper	Thalamus (right hemisphere)
right-caudate	Caudate (right hemisphere)
right-putamen	Putamen (right hemisphere)
right-pallidum	Pallidum (right hemisphere)
right-hippocampus	Hippocampus (right hemisphere)
right-amygdala	Amygdala (right hemisphere)
right-accumbens-area	Accumbens (right hemisphere)
right-ventraldc	Ventral diencephalon (right hemisphere)
3rd-ventricle	Third ventricle
4th-ventricle	Fourth ventricle
brain-stem	Brain stem
csf	Cerebrospinal fluid

Table 3. Fiber tracts automatically labeled by AtlasTrack.

Except for Fmaj, Fmin, and CC, all tracts are separately labeled for left and right hemispheres.

Hagler, D.J., Jr., Ahmadi, M.E., Kuperman, J., Holland, D., McDonald, C.R., Halgren, E., Dale, A.M. (2009) Automated white-matter tractography using a probabilistic diffusion tensor atlas: Application to temporal lobe epilepsy. Hum Brain Mapp, 30:1535-47.

Abbrev	Fiber Name	Connected Brain Regions
Fx	fornix	hippocampus & mammillary nuclei of hypothalamus
CgC	cingulate cingulum	cingulate gyrus & entorhinal cortex (cingulate portion)
CgH	parahippocampal cingulum	cingulate gyrus & entorhinal cortex (parahippocampal portion)
CST	corticospinal tract (pyramidal tract)	motor cortex & spinal cord
ATR	anterior thalamic radiations	thalamus & frontal lobe
UNC	uncinate	inferior frontal lobe & anterior temporal lobe

ILF	inferior longitudinal fasciculus	occipital lobe & temporal lobe
IFO	inferior frontal occipital fasciculus	occipital lobe & frontal lobe
Fmaj	forceps major	left occipital cortex & right occipital cortex
Fmin	forceps minor	left prefrontal cortex & right prefrontal cortex
CC	corpus callosum	left cortex & right cortex
SLF	superior longitudinal fasciculus	temporal and parietal lobes & frontal lobe
tSLF	temporal superior longitudinal fasciculus (arcuate fasciculus)	temporal lobe & frontal lobe
pSLF	parietal superior longitudinal fasciculus	parietal lobe & frontal lobe
SCS	superior corticostriate	superior cortex & striatum
fSCS	frontal superior corticostriate	superior frontal cortex & striatum
pSCS	parietal superior corticostriate	superior parietal cortex & striatum
SIFC	striatal inferior frontal cortex tract	inferior frontal cortex & striatum
IFSFC	inferior frontal to superior frontal cortical tract	inferior frontal cortex & superior frontal cortex

Table 4. ROI labels and network membership of cortical parcels defined based on resting-state functional connectivity.

Gordon, E.M., Laumann, T.O., Adeyemo, B., Huckins, J.F., Kelley, W.M., Petersen, S.E. (2014) Generation and Evaluation of a Cortical Area Parcellation from Resting-State Correlations. Cereb Cortex.

Parcel #	ROI label	Network
1	ctx-lh-gp1	Default
2	ctx-lh-gp2	SMhand
3	ctx-lh-gp3	SMmouth
4	ctx-lh-gp4	Default
5	ctx-lh-gp5	Visual
6	ctx-lh-gp6	Default
7	ctx-lh-gp7	FrontoParietal
8	ctx-lh-gp8	Visual
9	ctx-lh-gp9	FrontoParietal
10	ctx-lh-gp10	Auditory
11	ctx-lh-gp11	None
12	ctx-lh-gp12	CinguloParietal
13	ctx-lh-gp13	RetrosplenialTemporal
14	ctx-lh-gp14	RetrosplenialTemporal
15	ctx-lh-gp15	Visual

16	ctx-lh-gp16	Visual
17	ctx-lh-gp17	Visual
18	ctx-lh-gp18	None
19	ctx-lh-gp19	None
20	ctx-lh-gp20	Visual
21	ctx-lh-gp21	CinguloOperc
22	ctx-lh-gp22	CinguloOperc
23	ctx-lh-gp23	VentralAttn
24	ctx-lh-gp24	FrontoParietal
25	ctx-lh-gp25	Default
26	ctx-lh-gp26	Default
27	ctx-lh-gp27	CinguloOperc
28	ctx-lh-gp28	CinguloOperc
29	ctx-lh-gp29	Salience
30	ctx-lh-gp30	SMhand
31	ctx-lh-gp31	SMhand
32	ctx-lh-gp32	SMhand
33	ctx-lh-gp33	SMhand
34	ctx-lh-gp34	CinguloOperc
35	ctx-lh-gp35	SMhand
36	ctx-lh-gp36	SMhand
37	ctx-lh-gp37	SMhand
38	ctx-lh-gp38	SMhand
39	ctx-lh-gp39	SMmouth
40	ctx-lh-gp40	CinguloOperc
41	ctx-lh-gp41	DorsalAttn
42	ctx-lh-gp42	DorsalAttn
43	ctx-lh-gp43	DorsalAttn
44	ctx-lh-gp44	Default
45	ctx-lh-gp45	SMhand
46	ctx-lh-gp46	SMhand
47	ctx-lh-gp47	SMhand
48	ctx-lh-gp48	SMhand
49	ctx-lh-gp49	DorsalAttn
50	ctx-lh-gp50	SMhand
51	ctx-lh-gp51	DorsalAttn
52	ctx-lh-gp52	DorsalAttn
53	ctx-lh-gp53	SMmouth
54	ctx-lh-gp54	SMhand
55	ctx-lh-gp55	DorsalAttn
56	ctx-lh-gp56	SMhand
57	ctx-lh-gp57	SMhand
58	ctx-lh-gp58	SMhand
59	ctx-lh-gp59	SMmouth
60	ctx-lh-gp60	VentralAttn

61	ctx-lh-gp61	VentralAttn
62	ctx-lh-gp62	VentralAttn
63	ctx-lh-gp63	CinguloOperc
64	ctx-lh-gp64	Auditory
65	ctx-lh-gp65	Auditory
66	ctx-lh-gp66	Auditory
67	ctx-lh-gp67	Auditory
68	ctx-lh-gp68	Auditory
69	ctx-lh-gp69	Auditory
70	ctx-lh-gp70	Auditory
71	ctx-lh-gp71	CinguloOperc
72	ctx-lh-gp72	CinguloOperc
73	ctx-lh-gp73	None
74	ctx-lh-gp74	DorsalAttn
75	ctx-lh-gp75	VentralAttn
76	ctx-lh-gp76	CinguloOperc
77	ctx-lh-gp77	Auditory
78	ctx-lh-gp78	FrontoParietal
79	ctx-lh-gp79	VentralAttn
80	ctx-lh-gp80	VentralAttn
81	ctx-lh-gp81	CinguloOperc
82	ctx-lh-gp82	CinguloOperc
83	ctx-lh-gp83	Salience
84	ctx-lh-gp84	CinguloOperc
85	ctx-lh-gp85	VentralAttn
86	ctx-lh-gp86	VentralAttn
87	ctx-lh-gp87	DorsalAttn
88	ctx-lh-gp88	DorsalAttn
89	ctx-lh-gp89	CinguloParietal
90	ctx-lh-gp90	Visual
91	ctx-lh-gp91	DorsalAttn
92	ctx-lh-gp92	DorsalAttn
93	ctx-lh-gp93	CinguloParietal
94	ctx-lh-gp94	Default
95	ctx-lh-gp95	DorsalAttn
96	ctx-lh-gp96	FrontoParietal
97	ctx-lh-gp97	Visual
98	ctx-lh-gp98	Visual
99	ctx-lh-gp99	Visual
100	ctx-lh-gp100	DorsalAttn
101	ctx-lh-gp101	CinguloOperc
102	ctx-lh-gp102	Auditory
103	ctx-lh-gp103	CinguloOperc
104	ctx-lh-gp104	Auditory
105	ctx-lh-gp105	CinguloOperc

106	ctx-lh-gp106	DorsalAttn
107	ctx-lh-gp107	DorsalAttn
108	ctx-lh-gp108	FrontoParietal
109	ctx-lh-gp109	FrontoParietal
110	ctx-lh-gp110	DorsalAttn
111	ctx-lh-gp111	CinguloOperc
112	ctx-lh-gp112	CinguloOperc
113	ctx-lh-gp113	DorsalAttn
114	ctx-lh-gp114	Default
115	ctx-lh-gp115	None
116	ctx-lh-gp116	Default
117	ctx-lh-gp117	Default
118	ctx-lh-gp118	None
119	ctx-lh-gp119	None
120	ctx-lh-gp120	None
121	ctx-lh-gp121	None
122	ctx-lh-gp122	None
123	ctx-lh-gp123	None
124	ctx-lh-gp124	None
125	ctx-lh-gp125	None
126	ctx-lh-gp126	Default
127	ctx-lh-gp127	Default
128	ctx-lh-gp128	None
129	ctx-lh-gp129	None
130	ctx-lh-gp130	RetrosplenialTemporal
131	ctx-lh-gp131	Visual
132	ctx-lh-gp132	Visual
133	ctx-lh-gp133	None
134	ctx-lh-gp134	None
135	ctx-lh-gp135	None
136	ctx-lh-gp136	Visual
137	ctx-lh-gp137	Visual
138	ctx-lh-gp138	Visual
139	ctx-lh-gp139	Visual
140	ctx-lh-gp140	Visual
141	ctx-lh-gp141	Visual
142	ctx-lh-gp142	None
143	ctx-lh-gp143	RetrosplenialTemporal
144	ctx-lh-gp144	None
145	ctx-lh-gp145	Default
146	ctx-lh-gp146	Default
147	ctx-lh-gp147	CinguloOperc
148	ctx-lh-gp148	FrontoParietal
149	ctx-lh-gp149	FrontoParietal
150	ctx-lh-gp150	Default

151	ctx-lh-gp151	Default
152	ctx-lh-gp152	Default
153	ctx-lh-gp153	CinguloOperc
154	ctx-lh-gp154	Default
155	ctx-lh-gp155	DorsalAttn
156	ctx-lh-gp156	Default
157	ctx-lh-gp157	Default
158	ctx-lh-gp158	VentralAttn
159	ctx-lh-gp159	None
160	ctx-lh-gp160	Auditory
161	ctx-lh-gp161	VentralAttn
162	ctx-rh-gp162	Default
163	ctx-rh-gp163	SMhand
164	ctx-rh-gp164	SMmouth
165	ctx-rh-gp165	Default
166	ctx-rh-gp166	Visual
167	ctx-rh-gp167	FrontoParietal
168	ctx-rh-gp168	FrontoParietal
169	ctx-rh-gp169	Visual
170	ctx-rh-gp170	FrontoParietal
171	ctx-rh-gp171	Auditory
172	ctx-rh-gp172	None
173	ctx-rh-gp173	CinguloParietal
174	ctx-rh-gp174	RetrosplenialTemporal
175	ctx-rh-gp175	Visual
176	ctx-rh-gp176	Visual
177	ctx-rh-gp177	Visual
178	ctx-rh-gp178	None
179	ctx-rh-gp179	None
180	ctx-rh-gp180	CinguloOperc
181	ctx-rh-gp181	CinguloOperc
182	ctx-rh-gp182	FrontoParietal
183	ctx-rh-gp183	Salience
184	ctx-rh-gp184	Default
185	ctx-rh-gp185	CinguloOperc
186	ctx-rh-gp186	Default
187	ctx-rh-gp187	CinguloOperc
188	ctx-rh-gp188	CinguloOperc
189	ctx-rh-gp189	DorsalAttn
190	ctx-rh-gp190	SMhand
191	ctx-rh-gp191	SMhand
192	ctx-rh-gp192	CinguloOperc
193	ctx-rh-gp193	SMhand
194	ctx-rh-gp194	SMhand
195	ctx-rh-gp195	SMhand

196	ctx-rh-gp196	CinguloOperc
197	ctx-rh-gp197	SMmouth
198	ctx-rh-gp198	CinguloOperc
199	ctx-rh-gp199	DorsalAttn
200	ctx-rh-gp200	Default
201	ctx-rh-gp201	SMhand
202	ctx-rh-gp202	SMhand
203	ctx-rh-gp203	DorsalAttn
204	ctx-rh-gp204	SMhand
205	ctx-rh-gp205	SMhand
206	ctx-rh-gp206	SMhand
207	ctx-rh-gp207	SMhand
208	ctx-rh-gp208	DorsalAttn
209	ctx-rh-gp209	SMhand
210	ctx-rh-gp210	SMhand
211	ctx-rh-gp211	DorsalAttn
212	ctx-rh-gp212	SMmouth
213	ctx-rh-gp213	SMhand
214	ctx-rh-gp214	SMhand
215	ctx-rh-gp215	SMhand
216	ctx-rh-gp216	SMhand
217	ctx-rh-gp217	SMhand
218	ctx-rh-gp218	SMmouth
219	ctx-rh-gp219	CinguloOperc
220	ctx-rh-gp220	Default
221	ctx-rh-gp221	VentralAttn
222	ctx-rh-gp222	VentralAttn
223	ctx-rh-gp223	CinguloOperc
224	ctx-rh-gp224	Auditory
225	ctx-rh-gp225	Default
226	ctx-rh-gp226	VentralAttn
227	ctx-rh-gp227	Auditory
228	ctx-rh-gp228	VentralAttn
229	ctx-rh-gp229	VentralAttn
230	ctx-rh-gp230	Auditory
231	ctx-rh-gp231	VentralAttn
232	ctx-rh-gp232	Auditory
233	ctx-rh-gp233	Auditory
234	ctx-rh-gp234	CinguloOperc
235	ctx-rh-gp235	CinguloOperc
236	ctx-rh-gp236	DorsalAttn
237	ctx-rh-gp237	VentralAttn
238	ctx-rh-gp238	CinguloOperc
239	ctx-rh-gp239	Auditory
240	ctx-rh-gp240	FrontoParietal

241	ctx-rh-gp241	VentralAttn
242	ctx-rh-gp242	VentralAttn
243	ctx-rh-gp243	VentralAttn
244	ctx-rh-gp244	Auditory
245	ctx-rh-gp245	CinguloOperc
246	ctx-rh-gp246	CinguloOperc
247	ctx-rh-gp247	Salience
248	ctx-rh-gp248	CinguloOperc
249	ctx-rh-gp249	CinguloOperc
250	ctx-rh-gp250	DorsalAttn
251	ctx-rh-gp251	Visual
252	ctx-rh-gp252	DorsalAttn
253	ctx-rh-gp253	DorsalAttn
254	ctx-rh-gp254	CinguloParietal
255	ctx-rh-gp255	Visual
256	ctx-rh-gp256	Visual
257	ctx-rh-gp257	Default
258	ctx-rh-gp258	Visual
259	ctx-rh-gp259	Default
260	ctx-rh-gp260	FrontoParietal
261	ctx-rh-gp261	FrontoParietal
262	ctx-rh-gp262	DorsalAttn
263	ctx-rh-gp263	Visual
264	ctx-rh-gp264	Visual
265	ctx-rh-gp265	Visual
266	ctx-rh-gp266	DorsalAttn
267	ctx-rh-gp267	Visual
268	ctx-rh-gp268	Auditory
269	ctx-rh-gp269	Auditory
270	ctx-rh-gp270	SMhand
271	ctx-rh-gp271	DorsalAttn
272	ctx-rh-gp272	FrontoParietal
273	ctx-rh-gp273	FrontoParietal
274	ctx-rh-gp274	CinguloOperc
275	ctx-rh-gp275	DorsalAttn
276	ctx-rh-gp276	FrontoParietal
277	ctx-rh-gp277	FrontoParietal
278	ctx-rh-gp278	Default
279	ctx-rh-gp279	Default
280	ctx-rh-gp280	None
281	ctx-rh-gp281	None
282	ctx-rh-gp282	None
283	ctx-rh-gp283	None
284	ctx-rh-gp284	None
285	ctx-rh-gp285	None

286	ctx-rh-gp286	None
287	ctx-rh-gp287	None
288	ctx-rh-gp288	None
289	ctx-rh-gp289	None
290	ctx-rh-gp290	Default
291	ctx-rh-gp291	None
292	ctx-rh-gp292	None
293	ctx-rh-gp293	Visual
294	ctx-rh-gp294	RetrosplenialTemporal
295	ctx-rh-gp295	RetrosplenialTemporal
296	ctx-rh-gp296	None
297	ctx-rh-gp297	None
298	ctx-rh-gp298	Visual
299	ctx-rh-gp299	Visual
300	ctx-rh-gp300	None
301	ctx-rh-gp301	None
302	ctx-rh-gp302	None
303	ctx-rh-gp303	None
304	ctx-rh-gp304	None
305	ctx-rh-gp305	None
306	ctx-rh-gp306	None
307	ctx-rh-gp307	Visual
308	ctx-rh-gp308	Visual
309	ctx-rh-gp309	Visual
310	ctx-rh-gp310	Visual
311	ctx-rh-gp311	Visual
312	ctx-rh-gp312	None
313	ctx-rh-gp313	RetrosplenialTemporal
314	ctx-rh-gp314	None
315	ctx-rh-gp315	Default
316	ctx-rh-gp316	Default
317	ctx-rh-gp317	CinguloOperc
318	ctx-rh-gp318	CinguloOperc
319	ctx-rh-gp319	FrontoParietal
320	ctx-rh-gp320	FrontoParietal
321	ctx-rh-gp321	Default
322	ctx-rh-gp322	Default
323	ctx-rh-gp323	Default
324	ctx-rh-gp324	Default
325	ctx-rh-gp325	Default
326	ctx-rh-gp326	Default
327	ctx-rh-gp327	FrontoParietal
328	ctx-rh-gp328	FrontoParietal
329	ctx-rh-gp329	Auditory
330	ctx-rh-gp330	Auditory

331	ctx-rh-gp331	Default
332	ctx-rh-gp332	VentralAttn
333	ctx-rh-gp333	VentralAttn

Table 5. MID task contrasts of conditions

Contrast	Condition A	Condition B
antic_reward_vs_neutral	large_reward_antic small_reward_antic	neutral_antic
antic_loss_vs_neutral	large_loss_antic small_loss_antic	neutral_antic
reward_pos_vs_neg_feedback	large_reward_pos_feedback small_reward_pos_feedback	large_reward_neg_feedback small_reward_neg_feedback
loss_pos_vs_neg_feedback	large_loss_pos_feedback small_loss_pos_feedback	large_loss_neg_feedback small_loss_neg_feedback
antic_large_reward_vs_neutral	large_reward_antic	neutral_antic
antic_small_reward_vs_neutral	small_reward_antic	neutral_antic
antic_large_vs_small_reward	large_reward_antic	small_reward_antic
antic_large_loss_vs_neutral	large_loss_antic	neutral_antic
antic_small_loss_vs_neutral	small_loss_antic	neutral_antic
antic_large_vs_small_loss	large_loss_antic	small_loss_antic

Table 6. SST task contrasts of conditions

Contrast	Condition A	Condition B
correct_go_vs_fixation	correct_go	
correct_stop_vs_correct_go	correct_stop	correct_go
incorrect_stop_vs_correct_go	incorrect_stop	correct_go
any_stop_vs_correct_go	correct_stop incorrect_stop	correct_go
correct_stop_vs_incorrect_stop	correct_stop	incorrect_stop
incorrect_go_vs_correct_go	incorrect_go	correct_go
incorrect_go_vs_incorrect_stop	incorrect_go	incorrect_stop

Table 7. n-Back task contrasts of conditions.

Contrast	Condition A	Condition B
2_back_vs_0_back	2_back_place 2_back_negface 2_back_neutface 2_back_posface	0_back_place 0_back_negface 0_back_neutface 0_back_posface
face_vs_place	0_back_negface 2_back_negface 0_back_neutface 2_back_neutface 0_back_posface 2_back_posface	0_back_place 2_back_place
emotion_vs_neutface	0_back_negface 2_back_negface 0_back_posface 2_back_posface	0_back_neutface 2_back_neutface
negface_vs_neutface	0_back_negface 2_back_negface	0_back_neutface 2_back_neutface
posface_vs_neutface	0_back_posface 2_back_posface	0_back_neutface 2_back_neutface

Table 8. Restriction Spectrum Imaging measures.

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Name	Description	Notes
N0	0th order FOD parameter divided by norm (sqrt sum of squares) of all parameters	isotropic restricted
ND	norm of directional FOD components (2nd and 4th order) divided by norm of all parameters	neurite density, directional restricted
NT	norm of all FOD parameters (0th, 2nd, and 4th order) divided by norm of all parameters	total restricted
N0_s2	0th order FOD parameter divided by norm (sqrt sum of squares) of all parameters	isotropic hindered
ND_s2	norm of directional FOD components (2nd and 4th order) divided by norm of all parameters	directional hindered
NT_s2	norm of all FOD parameters (0th, 2nd, and 4th order) divided by norm of all parameters	total hindered