# ALSPAC DOCUMENTATION

# MRI DERIVED DATA COLLECTED FROM ALSPAC NEUROIMAGING SUB-STUDIES

From 18 to 24 years

Prepared by

## The ALSPAC Study Team

Last updated for version 2b of the BUILT file.

Documentation giving background and summary information on the data.

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# Introduction and Background

Neuroimaging data have been obtained from a number of MRI brain imaging substudies with ALSPAC Young People (YPs) between the ages of 19 and 23. This documentation summarises the key variables that have been derived from the first three studies (total sample size of 930).

#### **Collaborators and Funders:**

The three studies are summarised as follows:

Study name	PI	Age at study (years)	Sample size	Funder
ALSPAC- Testosterone (B648)	Tomas <b>Paus</b>	20	252	National Institutes of Health (R01MH08577)
ALSPAC PE Study (B709)	Tony <b>David</b>	19	513, males only	MRC (G0901885)
ALSPAC SCZ- RbG Study (B1276)	David <b>Linden</b>	22	196	MRC (MR/K004360/1)

#### Data Collection Details:

A detailed description of the three MRI studies is available in the Wellcome Open Research Article "Population neuroimaging: generation of a comprehensive data resource within the ALSPAC pregnancy and birth cohort [version 1; peer review: 1 approved, 2 approved with reservations]", Sharp TH, McBride NS, Howell AE et al. https://wellcomeopenresearch.org/articles/5-203

This also provides further links to the original research papers explaining each of the studies.

#### MRI Data Availability:

The MRI scans used to derive the data described in this documentation are available on request (subject to a cost recovery fee). Any enquiries please contact: <u>alspac-data@bristol.ac.uk</u>.

The following scan types are available:

Study name	Structural (T1)	Functional (fMRI)	Diffus ion Tens or (DTI/ DWI)	Relaxometry (mcDESPOT)
Paus (ALSPAC- Testosterone Study) (B648)	504	474	500	489
David (ALSPAC-PE Study) (B709)	252	214	249	248
Linden (ALSPAC-SCZ- RbG Study) (B1276)	196	190 / 192*	191	183

\* For Linden, two different functional MRI tasks were done (N-Back and Reversal learning tasks).

**Sampling Information:** 





<sup>&</sup>lt;sup>1</sup> IDP: image-derived phenotypes, MT-MRI: magnetization transfer MRI, mcDESPOT (multicomponent driven equilibrium single-pulse observation of T1 and T2). sMRI: structural MRI, DTI: diffusion tensor imaging, fMRI: functional MRI, MEG: magnetoencephalography, QC: quality control. Sharp TH, McBride NS, Howell AE, *et al.* Population neuroimaging: generation of a comprehensive data resource within the ALSPAC pregnancy and birth cohort [version 1]. *Wellcome Open Res* 2020, **5**:203 (doi: 10.12688/wellcomeopenres.16060.1)





### Derived data extraction procedure:

The extraction procedure was followed as described on the ENIGMA website (http://enigma.ini.usc.edu/protocols/imaging-protocols/):

For cortical parcellation see Step 1: Extract Cortical Measures from FreeSurfer (http://enigma.ini.usc.edu/wp-

content/uploads/CORTEX/01\_Extract\_CorticalMeasures\_FS\_032114.doc)

For subcortical segmentation see Subcortical volume extraction and visual inspection

(http://enigma.ini.usc.edu/wp-

content/uploads/2015/06/Instructions\_ENIGMA\_subcortical\_volumes.doc)

Derived variables were constructed in the sub-sample of ALSPAC with T1-weighted MRI data. Two sets of variables were generated:

(1) Quantitative measures of thickness, surface area, and volume of brain regions, extracted from T1-weighted MRI scans

(2) A quality assessment score of 0 "pass", 1 "moderate" or 2 "fail" for quantitative measures, derived by visual inspection of the FreeSurfer output.

Brain regions were based on the Desikan-Killiany Atlas.

### Format of this documentation and data file:

The bulk of this documentation consists of a table of the derived variables and descriptive statistics across the three studies. There are also frequencies and histograms presented of key variables.

The first part of the data file provides the basic information related to each study (indicator variables for taking part, date of visit, age at visit, case-control status etc).

The remaining variables are the derived variables acquired for each study participant.

The MRI functional task data is also available (from the Linden and David studies). Please contact <u>alspac-data@bristol.ac.uk</u> for further information about their preparation and protocols.

#### **Release File Version History:**

Release version 1a - May 2022; The first version of the release file.

**Release version 2a** – July 2022; updated to cases to vars format with the MRI data variable names MRI\_YP\_1000 to MRI\_YP\_1158 given P (Paus), D (David) or L (Linden) to signify which substudy the data is from. For example, MRI\_YP\_1050 becomes MRI\_YP\_P1050, MRI\_YP\_D1050 and MRI\_YP\_L1050.

**Release version 2b** – September 2022, full cohort profile added to data file plus minor value label corrections to admin variables. Additional flag variables for participants that attended the respective substudies but do not have derived MRI scan data (MRI\_YP\_0001a, MRI\_YP\_0002a, MRI\_YP\_0003a). The raw data for those missing from the derived data are available.

All frequencies and histograms have been updated to reflect this. There are 861 participants in one or more substudy, with 823 participating in one substudy only, see flag variable MRI\_YP\_0004.

### **Derived Variables - Name and Label**

#### Admin Variables

Variable Name	Label
MRI_YP_0001	Took part in Paus study
MRI_YP_0002	Took part in David study
MRI_YP_0003	Took part in Linden study
MRI_YP_0004	Participant in more than one study
MRI_YP_0005	Visit Date Paus: Month
MRI_YP_0006	Visit Date Paus: Year
MRI_YP_0007	Visit Date David: Month
MRI_YP_0008	Visit Date David: Year
MRI_YP_0009	Visit Date Linden: Month
MRI_YP_0010	Visit Date Linden: Year
MRI_YP_0020	Age at visit Paus (months)
MRI_YP_0021	Age at visit David (months)
MRI_YP_0022	Age at visit Linden (months)
MRI_YP_0040	Participant handedness
MRI_YP_0050	PLIKS category David
MRI_YP_0060	David Case-control status
MRI_YP_0061	Linden Case-Control status
MRI_YP_0062	Linden Case-Control Status by gender

### MRI Variables

MRI variables have now been split into individual studies, see below for an example, along with a tag for the relevant study at the end of each variable label. i.e., ': Paus', ': David', ': Linden'.

Original	Paus	David	Linden
MRI_YP_1000	MRI_YP_ <b>P</b> 1000	MRI_YP_ <b>D</b> 1000	MRI_YP_ <b>L</b> 1000

General MRI variable names without individual study letters and flags.

Variable Name	Label
MRI_YP_1000	Cortical thickness of the left banks superior temporal sulcus
MRI_YP_1001	Cortical thickness of the left caudal anterior-cingulate cortex
MRI_YP_1002	Cortical thickness of the left caudal middle frontal gyrus
MRI_YP_1003	Cortical thickness of the left cuneus cortex
MRI_YP_1004	Cortical thickness of the left entorhinal cortex
MRI_YP_1005	Cortical thickness of the left fusiform gyrus
MRI_YP_1006	Cortical thickness of the left inferior parietal cortex
MRI_YP_1007	Cortical thickness of the left inferior temporal gyrus
MRI_YP_1008	Cortical thickness of the left isthmus – cingulate cortex
MRI_YP_1009	Cortical thickness of the left lateral occipital cortex
MRI_YP_1010	Cortical thickness of the left lateral orbital frontal cortex
MRI_YP_1011	Cortical thickness of the left lingual gyrus

MRI_YP_1012	Cortical thickness of the left medial orbital frontal cortex
MRI_YP_1013	Cortical thickness of the left middle temporal gyrus
MRI_YP_1014	Cortical thickness of the left parahippocampal gyrus
MRI_YP_1015	Cortical thickness of the left paracentral lobule
MRI_YP_1016	Cortical thickness of the left pars opercularis
MRI YP 1017	Cortical thickness of the left pars orbitalis
MRI YP 1018	Cortical thickness of the left pars triangularis
MRI YP 1019	Cortical thickness of the left pericalcarine cortex
MRI YP 1020	Cortical thickness of the left postcentral gyrus
MRI YP 1021	Cortical thickness of the left posterior-cingulate cortex
MRI YP 1022	Cortical thickness of the left precentral gyrus
MRI YP 1023	Cortical thickness of the left precuneus cortex
MRI YP 1024	Cortical thickness of the left rostral anterior cingulate cortex
MRI YP 1025	Cortical thickness of the left rostral middle frontal ovrus
MRI YP 1026	Cortical thickness of the left superior frontal gyrus
MRI YP 1027	Cortical thickness of the left superior parietal cortex
MRI YP 1028	Cortical thickness of the left superior temporal gyrus
MRI YP 1029	Cortical thickness of the left supramarginal gyrus
MRI YP 1030	Cortical thickness of the left frontal pole
MRI_YP_1031	Cortical thickness of the left temporal pole
MRI_YP_1032	Cortical thickness of the left transverse temporal cortex
MRI_TT_1032	Cortical thickness of the left insular cortex
MRI VP 1034	Cortical thickness of the right banks superior temporal sulcus
MRI VP 1035	Cortical thickness of the right caudal anterior-cingulate cortex
MPI VP 1036	Cortical thickness of the right caudal middle frontal avrus
MDI VD 1027	Cortical thickness of the right curous cortex
MPI VD 1038	Cortical thickness of the right optorbinal cortex
MDI VD 1030	Cortical thickness of the right fusiform avrue
MRI_1F_1039	Cortical thickness of the right informer parietal cortex
MDI VD 1040	Cortical thickness of the right inferior temporal averue
MPL VD 1041	Cortical thickness of the right interior temporal gyrus
MPI VD 1042	Cortical thickness of the right lateral accipital cortex
MPI VD 1043	Cortical thickness of the right lateral orbital frontal cortex
MPL VD 1044	Cortical thickness of the right lingual gyrup
MPL VD 1040	Cortical thickness of the right medial orbital frontal aartay
MDL VD 1047	Cortical thickness of the right medial orbital frontal contex
MDI VD 1047	Contical thickness of the right narching accompolation
MRI_1P_1040	Contical thickness of the right paragentral lebule
MRI_YP_1049	Control thickness of the right paracentral lobule
	Control thickness of the right pars operculars
	Contical thickness of the right pars orbitalis
MRI_1P_1052	Control thickness of the right paris thangulars
MRI_YP_1053	Contical thickness of the right pericalcarine contex
MRI_YP_1054	Cortical thickness of the right postcentral gyrus
MRI_YP_1055	Cortical thickness of the right posterior-cingulate cortex
MRI_YP_1056	Cortical thickness of the right precentral gyrus
MRI_YP_1057	Cortical thickness of the right precuneus cortex
MRI_YP_1058	Cortical thickness of the right rostral anterior cingulate cortex
	Cortical thickness of the right rostral middle frontal gyrus
MRI_YP_1060	Cortical thickness of the right superior frontal gyrus
MRI_YP_1061	Cortical thickness of the right superior parietal cortex
MRI_YP_1062	Cortical thickness of the right superior temporal gyrus
MRI_YP_1063	Cortical thickness of the right supramarginal gyrus
MRI_YP_1064	Cortical thickness of the right frontal pole
MRI_YP_1065	Cortical thickness of the right temporal pole
MRI_YP_1066	Cortical thickness of the right transverse temporal cortex

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MRI_YP_1100Surface area of the left superior parietal cortexMRI_YP_1101Surface area of the left superior temporal gyrusMRI_YP_1102Surface area of the left supramarginal gyrusMRI_YP_1103Surface area of the left frontal poleMRI_YP_1104Surface area of the left temporal poleMRI_YP_1105Surface area of the left transverse temporal cortexMRI_YP_1106Surface area of the left insular cortexMRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right cuneus cortexMRI_YP_1110Surface area of the right not cortexMRI_YP_1111Surface area of the right cuneus cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right lateral occipital cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1116Surface area of the right medial orbital frontal cortexMRI_YP_1118Surface area of the right medial orbital frontal cortexMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1118Surface area of the right medial orbital frontal	MRI_YP_1099	Surface area of the left superior frontal gyrus
MRI_YP_1101Surface area of the left superior temporal gyrusMRI_YP_1102Surface area of the left supramarginal gyrusMRI_YP_1103Surface area of the left frontal poleMRI_YP_1104Surface area of the left temporal poleMRI_YP_1105Surface area of the left transverse temporal cortexMRI_YP_1106Surface area of the left insular cortexMRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right cuncus cortexMRI_YP_1110Surface area of the right cuncus cortexMRI_YP_1111Surface area of the right fusiform gyrusMRI_YP_1112Surface area of the right inferior parietal cortexMRI_YP_1113Surface area of the right inferior temporal gyrusMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1116Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1100	Surface area of the left superior parietal cortex
MRI_YP_1102Surface area of the left supramarginal gyrusMRI_YP_1103Surface area of the left frontal poleMRI_YP_1104Surface area of the left temporal poleMRI_YP_1105Surface area of the left transverse temporal cortexMRI_YP_1106Surface area of the left insular cortexMRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuncus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right inferior parietal cortexMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right middle temporal gyrus	MRI_YP_1101	Surface area of the left superior temporal gyrus
MRI_YP_1103Surface area of the left frontal poleMRI_YP_1104Surface area of the left temporal poleMRI_YP_1105Surface area of the left transverse temporal cortexMRI_YP_1106Surface area of the left insular cortexMRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right lateral occipital cortexMRI_YP_1116Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right medial orbital frontal cortexMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1102	Surface area of the left supramarginal gyrus
MRI_YP_1104Surface area of the left temporal poleMRI_YP_1105Surface area of the left transverse temporal cortexMRI_YP_1106Surface area of the left insular cortexMRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right inferior gyrusMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1103	Surface area of the left frontal pole
MRI_YP_1105Surface area of the left transverse temporal cortexMRI_YP_1106Surface area of the left insular cortexMRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right lateral occipital cortexMRI_YP_1116Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1104	Surface area of the left temporal pole
MRI_YP_1106Surface area of the left insular cortexMRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right lateral occipital cortexMRI_YP_1116Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1105	Surface area of the left transverse temporal cortex
MRI_YP_1107Surface area of the right banks superior temporal sulcusMRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1119Surface area of the right lingual gyrusMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1106	Surface area of the left insular cortex
MRI_YP_1108Surface area of the right caudal anterior-cingulate cortexMRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1107	Surface area of the right banks superior temporal sulcus
MRI_YP_1109Surface area of the right caudal middle frontal gyrusMRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lateral orbital frontal cortexMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1108	Surface area of the right caudal anterior-cingulate cortex
MRI_YP_1110Surface area of the right cuneus cortexMRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1109	Surface area of the right caudal middle frontal gyrus
MRI_YP_1111Surface area of the right entorhinal cortexMRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital frontal cortex	MRI_YP_1110	Surface area of the right cuneus cortex
MRI_YP_1112Surface area of the right fusiform gyrusMRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1111	Surface area of the right entorhinal cortex
MRI_YP_1113Surface area of the right inferior parietal cortexMRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1112	Surface area of the right fusiform gyrus
MRI_YP_1114Surface area of the right inferior temporal gyrusMRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right medial orbital frontal cortexMRI_YP_1121Surface area of the right medial orbital gyrus	MRI_YP_1113	Surface area of the right inferior parietal cortex
MRI_YP_1115Surface area of the right isthmus – cingulate cortexMRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right middle temporal gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1114	Surface area of the right inferior temporal gyrus
MRI_YP_1116Surface area of the right lateral occipital cortexMRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right middle temporal gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1115	Surface area of the right isthmus – cingulate cortex
MRI_YP_1117Surface area of the right lateral orbital frontal cortexMRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right middle temporal gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1116	Surface area of the right lateral occipital cortex
MRI_YP_1118Surface area of the right lingual gyrusMRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right middle temporal gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1117	Surface area of the right lateral orbital frontal cortex
MRI_YP_1119Surface area of the right medial orbital frontal cortexMRI_YP_1120Surface area of the right middle temporal gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1118	Surface area of the right lingual gyrus
MRI_YP_1120Surface area of the right middle temporal gyrusMRI_YP_1121Surface area of the right parahippocampal gyrus	MRI_YP_1119	Surface area of the right medial orbital frontal cortex
MRI_YP_1121 Surface area of the right parahippocampal gyrus	MRI_YP_1120	Surface area of the right middle temporal gyrus
	MRI_YP_1121	Surface area of the right parahippocampal gyrus

MRI_YP_1122	Surface area of the right paracentral lobule
MRI_YP_1123	Surface area of the right pars opercularis
MRI_YP_1124	Surface area of the right pars orbitalis
MRI_YP_1125	Surface area of the right pars triangularis
MRI_YP_1126	Surface area of the right pericalcarine cortex
MRI_YP_1127	Surface area of the right postcentral gyrus
MRI_YP_1128	Surface area of the right posterior-cingulate cortex
MRI_YP_1129	Surface area of the right precentral gyrus
MRI_YP_1130	Surface area of the right precuneus cortex
MRI_YP_1131	Surface area of the right rostral anterior cingulate cortex
MRI_YP_1132	Surface area of the right rostral middle frontal gyrus
MRI_YP_1133	Surface area of the right superior frontal gyrus
MRI_YP_1134	Surface area of the right superior parietal cortex
MRI_YP_1135	Surface area of the right superior temporal gyrus
MRI_YP_1136	Surface area of the right supramarginal gyrus
MRI_YP_1137	Surface area of the right frontal pole
MRI_YP_1138	Surface area of the right temporal pole
MRI_YP_1139	Surface area of the right transverse temporal cortex
MRI_YP_1140	Surface area of the right insular cortex
MRI_YP_1141	Volume of the left lateral ventricle
MRI_YP_1142	Volume of the right lateral ventricle
MRI_YP_1143	Volume of the left thalamus
MRI_YP_1144	Volume of the right thalamus
MRI_YP_1145	Volume of the left caudate
MRI_YP_1146	Volume of the right caudate
MRI_YP_1147	Volume of the left putamen
MRI_YP_1148	Volume of the right putamen
MRI_YP_1149	Volume of the left pallidum
MRI_YP_1150	Volume of the right pallidum
MRI_YP_1151	Volume of the left hippocampus
MRI_YP_1152	Volume of the right hippocampus
MRI_YP_1153	Volume of the left amygdala
MRI_YP_1154	Volume of the right amygdala
MRI_YP_1155	Volume of the left accumbens
MRI_YP_1156	Volume of the right accumbens
MRI_YP_1157	Quality control rating for the cortical parcellation
MRI_YP_1158	Quality control rating for the subcortical segmentation

# **Frequencies and Histograms**

### **Admin Variables**

	MRI_TP_0001 TOOK part in Paus study					
		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	0 No	378	1.8	42.4	42.4	
	1 Yes	513	2.5	57.6	100.0	
	Total	891	4.3	100.0		
Missing	-10 Did not take part in MRI studies	19614	95.7			
Total		20505	100.0			

### MRI\_YP\_0001 Took part in Paus study

#### MRI\_YP\_0001a Paus derived scan data available

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No (raw data only)*	24	.1	4.7	4.7
	1 Yes	489	2.4	95.3	100.0
	Total	513	2.5	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-7 Did not take part in Paus study	378	1.8		
	Total	19992	97.5		
Total		20505	100.0		

#### MRI\_YP\_0002 Took part in David study

_		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	639	3.1	71.7	71.7
	1 Yes	252	1.2	28.3	100.0
	Total	891	4.3	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
Total		20505	100.0		

#### MRI\_YP\_0002a David derived scan data available

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No (raw data only)*	6	.0	2.4	2.4
	1 Yes	246	1.2	97.6	100.0
	Total	252	1.2	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-7 Did not take part in David study	639	3.1		
	Total	20253	98.8		
Total		20505	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	694	3.4	77.9	77.9
	1 Yes	197	1.0	22.1	100.0
	Total	891	4.3	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
Total		20505	100.0		

MRI\_YP\_0003 Took part in Linden study

			ooun aau		
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No (raw data only)*	2	.0	1.0	1.0
	1 Yes	195	1.0	99.0	100.0
	Total	197	1.0	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-7 Did not take part in Linden study	694	3.4		
	Total	20308	99.0		
Total		20505	100.0		

MRI\_YP\_0003a Linden derived scan data available

MRI_YP_0004 Participant in more than one study	
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		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 In one study only	823	4.0	92.4	92.4
	1 In more than one study	68	.3	7.6	100.0
	Total	891	4.3	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
Total		20505	100.0		

\* Within the three sub-studies these images failed the quality control of this project however all data is still available in its anonymized raw state. (MRI\_YP\_P1157, MRI\_YP\_P1158, MRI\_YP\_D1157, MRI\_YP\_D1157, MRI\_YP\_D1158, MRI\_YP\_L1157, MRI\_YP\_L1158 contain further breakdown of quality control data).

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	36	.2	7.4	7.4
	2 February	43	.2	8.8	16.2
	3 March	34	.2	7.0	23.2
	4 April	45	.2	9.2	32.4
	5 May	34	.2	7.0	39.4
	6 June	42	.2	8.6	48.0
	7 July	52	.3	10.7	58.7
	8 August	43	.2	8.8	67.6
	9 September	45	.2	9.2	76.8
	10 October	51	.2	10.5	87.3
	11 November	45	.2	9.2	96.5
	12 December	17	.1	3.5	100.0
	Total	487	2.4	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-8 Date missing	26	.1		
	-7 Did not take part in Paus study	378	1.8		
	Total	20018	97.6		
Total		20505	100.0		

MRI\_YP\_0005 Visit Date Paus: Month

MRI\_YP\_0006 Visit Date Paus: Year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2010	68	.3	14.0	14.0
	2011	243	1.2	49.9	63.9
	2012	176	.9	36.1	100.0
	Total	487	2.4	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-8 Date missing	26	.1		
	-7 Did not take part in Paus study	378	1.8		
	Total	20018	97.6		
Total		20505	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	8	.0	3.2	3.2
	2 February	14	.1	5.6	8.7
	3 March	21	.1	8.3	17.1
	4 April	20	.1	7.9	25.0
	5 May	30	.1	11.9	36.9
	6 June	24	.1	9.5	46.4
	7 July	17	.1	6.7	53.2
	8 August	29	.1	11.5	64.7
	9 September	25	.1	9.9	74.6
	10 October	27	.1	10.7	85.3
	11 November	17	.1	6.7	92.1
	12 December	20	.1	7.9	100.0
	Total	252	1.2	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-7 Did not take part in David study	639	3.1		
	Total	20253	98.8		
Total		20505	100.0		

MRI\_YP\_0007 Visit Date David: Month

MRI\_YP\_0008 Visit Date David: Year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2010	1	.0	.4	.4
	2011	96	.5	38.1	38.5
	2012	155	.8	61.5	100.0
	Total	252	1.2	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-7 Did not take part in David study	639	3.1		
	Total	20253	98.8		
Total		20505	100.0		

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	3	.0	1.5	1.5
	2 February	11	.1	5.6	7.1
	3 March	17	.1	8.6	15.7
	4 April	11	.1	5.6	21.3
	5 May	17	.1	8.6	29.9
	6 June	24	.1	12.2	42.1
	7 July	16	.1	8.1	50.3
	8 August	21	.1	10.7	60.9
	9 September	18	.1	9.1	70.1
	10 October	16	.1	8.1	78.2
	11 November	20	.1	10.2	88.3
	12 December	23	.1	11.7	100.0
	Total	197	1.0	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-7 Did not take part in Linden study	694	3.4		
	Total	20308	99.0		
Total		20505	100.0		

MRI\_YP\_0009 Visit Date Linden: Month

MRI\_YP\_0010 Visit Date Linden: Year

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2013	8	.0	4.1	4.1
	2014	115	.6	58.4	62.4
	2015	73	.4	37.1	99.5
	2016	1	.0	.5	100.0
	Total	197	1.0	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-7 Did not take part in Linden study	694	3.4		
	Total	20308	99.0		
Total		20505	100.0		







/IRI_	YP.	_0022	Age	at	visit	Lind	len	(months	)
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Mill_TF_0040 Faiticipant nandedness						
		Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	1 Right	765	3.7	87.1	87.1	
	2 Left	113	.6	12.9	100.0	
	Total	878	4.3	100.0		
Missing	-10 Did not take part in MRI studies	19614	95.7			
	-1 NS/NK	13	.1			
	Total	19627	95.7			
Total		20505	100.0			

MRI YP	0040	Particip	oant ha	ndedness

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 None	123	.6	50.0	50.0
	1 Suspected	42	.2	17.1	67.1
	2 Definite	81	.4	32.9	100.0
	Total	246	1.2	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-9 MRI data not available	6	.0		
	-7 Did not take part in David study	639	3.1		
	Total	20259	98.8		
Total		20505	100.0		

MRI\_YP\_0050 PLIKS category David

#### MRI\_YP\_0060 David Case-control status

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Control	123	.6	50.0	50.0
	1 Case	123	.6	50.0	100.0
	Total	246	1.2	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-9 MRI data not available	6	.0		
	-7 Did not take part in David study	639	3.1		
	Total	20259	98.8		
Total		20505	100.0		

MRI_	YP_	0061	Linden	<b>Case-Control</b>	status
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		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Control (low PRS)	98	.5	50.3	50.3
	1 Case (high PRS)	97	.5	49.7	100.0
	Total	195	1.0	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-9 MRI data not available	2	.0		
	-7 Did not take part in Linden study	694	3.4		
	Total	20310	99.0		
Total		20505	100.0		

		Frequen		Valid	Cumulative
	-	су	Percent	Percent	Percent
Valid	1 Female control	51	.2	26.2	26.2
	(low PRS)				
	2 Male control (low	47	.2	24.1	50.3
	PRS)				
	3 Female case (high	51	.2	26.2	76.4
	PRS)				
	4 Male case (high	46	.2	23.6	100.0
	PRS)				
	Total	195	1.0	100.0	
Missin	-10 Did not take part	19614	95.7		
g	in MRI studies				
	-9 MRI data not	2	.0		
	available				
	-7 Did not take part	694	3.4		
	in Linden study				
	Total	20310	99.0		
Total		20505	100.0		

#### MRI\_YP\_0062 Linden Case-Control Status by gender



Paus (ALSPAC-Testosterone Study) MRI frequencies & histograms







MRI\_YP\_P1004 Cortical thickness of the left entorhinal cortex: Paus

































MRI\_YP\_P1028 Cortical thickness of the left superior temporal gyrus: Paus










MRI\_YP\_P1034 Cortical thickness of the right banks superior temporal sulcus: Paus





MRI\_YP\_P1036 Cortical thickness of the right caudal middle frontal gyrus: Paus







MRI\_YP\_P1040 Cortical thickness of the right inferior parietal cortex: Paus





MRI\_YP\_P1042 Cortical thickness of the right isthmus – cingulate cortex: Paus





MRI\_YP\_P1044 Cortical thickness of the right lateral orbital frontal cortex: Paus





MRI\_YP\_P1046 Cortical thickness of the right medial orbital frontal cortex: Paus









MRI\_YP\_P1053 Cortical thickness of the right pericalcarine cortex: Paus







MRI\_YP\_P1059 Cortical thickness of the right rostral middle frontal gyrus: Paus



MRI\_YP\_P1060 Cortical thickness of the right superior frontal gyrus: Paus





MRI\_YP\_P1062 Cortical thickness of the right superior temporal gyrus: Paus













MRI\_YP\_P1070 Surface area of the left hemisphere: Paus





MRI\_YP\_P1072 Total intracranial volume: Paus







MRI\_YP\_P1076 Surface area of the left cuneus cortex: Paus





MRI\_YP\_P1078 Surface area of the left fusiform gyrus: Paus







MRI\_YP\_P1082 Surface area of the left lateral occipital cortex: Paus





3000

3500

MRI\_YP\_P1084 Surface area of the left lingual gyrus: Paus

4000

4500

10.0

0.0

2000

2500



MRI\_YP\_P1085 Surface area of the left medial orbital frontal cortex: Paus















MRI\_YP\_P1095 Surface area of the left precentral gyrus: Paus





MRI\_YP\_P1097 Surface area of the left rostral anterior cingulate cortex: Paus





MRI\_YP\_P1099 Surface area of the left superior frontal gyrus: Paus








MRI\_YP\_P1103 Surface area of the left frontal pole: Paus











MRI\_YP\_P1109 Surface area of the right caudal middle frontal gyrus: Paus





MRI\_YP\_P1111 Surface area of the right entorhinal cortex: Paus













MRI\_YP\_P1119 Surface area of the right medial orbital frontal cortex: Paus













MRI\_YP\_P1127 Surface area of the right postcentral gyrus: Paus











6000

MRI\_YP\_P1132 Surface area of the right rostral middle frontal gyrus: Paus

8000

10000

10.0

0.0

4000

87



MRI\_YP\_P1133 Surface area of the right superior frontal gyrus: Paus







MRI\_YP\_P1137 Surface area of the right frontal pole: Paus









MRI\_YP\_P1141 Volume of the left lateral ventricle: Paus









MRI\_YP\_P1145 Volume of the left caudate: Paus





MRI\_YP\_P1147 Volume of the left putamen: Paus



MRI\_YP\_P1148 Volume of the right putamen: Paus





MRI\_YP\_P1150 Volume of the right pallidum: Paus





MRI\_YP\_P1152 Volume of the right hippocampus: Paus





MRI\_YP\_P1154 Volume of the right amygdala: Paus



MRI\_YP\_P1155 Volume of the left accumbens: Paus



MRI\_YP\_P1156 Volume of the right accumbens: Paus

MRI_YP_	P1157 Qualit	y control rating	g for the co	ortical parce	Ilation: Paus
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		Frequen		Valid	Cumulative
		су	Percent	Percent	Percent
Valid	0 pass	262	1.3	53.6	53.6
	1 moderate	202	1.0	41.3	94.9
	2 fail	25	.1	5.1	100.0
	Total	489	2.4	100.0	
Missin	-10 Did not take part	19614	95.7		
g	in MRI studies				
	-9 MRI data not	24	.1		
	available				
	-7 Did not take part	378	1.8		
	in Paus study				
	Total	20016	97.6		
Total		20505	100.0		

Paus							
		Frequen		Valid	Cumulative		
		су	Percent	Percent	Percent		
Valid	0 pass	455	2.2	93.0	93.0		
	1 moderate	16	.1	3.3	96.3		
	2 fail	18	.1	3.7	100.0		
	Total	489	2.4	100.0			
Missin	-10 Did not take part	19614	95.7				
g	in MRI studies						
	-9 MRI data not	24	.1				
	available						
	-7 Did not take part	378	1.8				
	in Paus study						
	Total	20016	97.6				
Total		20505	100.0				

MRI\_YP\_P1158 Quality control rating for the subcortical segmentation:



David (ALSPAC-PE Study) MRI frequencies & histograms













MRI\_YP\_D1008 Cortical thickness of the left isthmus – cingulate cortex : David




















MRI\_YP\_D1026 Cortical thickness of the left superior frontal gyrus : David



























MRI\_YP\_D1046 Cortical thickness of the right medial orbital frontal cortex : David























MRI\_YP\_D1062 Cortical thickness of the right superior temporal gyrus : David





MRI\_YP\_D1064 Cortical thickness of the right frontal pole: David










































MRI\_YP\_D1093 Surface area of the left postcentral gyrus : David

0.0



















































MRI\_YP\_D1124 Surface area of the right pars orbitalis : David





























MRI\_YP\_D1139 Surface area of the right transverse temporal cortex : David

0.0





MRI\_YP\_D1142 Volume of the right lateral ventricle: David





MRI\_YP\_D1144 Volume of the right thalamus: David









MRI\_YP\_D1148 Volume of the right putamen: David





MRI\_YP\_D1150 Volume of the right pallidum: David







MRI\_YP\_D1154 Volume of the right amygdala: David



MRI\_YP\_D1155 Volume of the left accumbens: David



MRI\_YP\_D1156 Volume of the right accumbens: David

MRI_YP_D1157 Quality	y control ratin	g for the co	rtical pai	rcellation: David
			F	

		Frequen		Valid	Cumulative
		су	Percent	Percent	Percent
Valid	0 pass	145	.7	58.9	58.9
	1 moderate	91	.4	37.0	95.9
	2 fail	10	.0	4.1	100.0
	Total	246	1.2	100.0	
Missin	-10 Did not take part	19614	95.7		
g	in MRI studies				
	-9 MRI data not	6	.0		
	available				
	-7 Did not take part	639	3.1		
	in David study				
	Total	20259	98.8		
Total		20505	100.0		
David					
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		Frequen		Valid	Cumulative
		су	Percent	Percent	Percent
Valid	0 pass	238	1.2	96.7	96.7
	1 moderate	4	.0	1.6	98.4
	2 fail	4	.0	1.6	100.0
	Total	246	1.2	100.0	
Missin	-10 Did not take part	19614	95.7		
g	in MRI studies				
	-9 MRI data not	6	.0		
	available				
	-7 Did not take part	639	3.1		
	in David study				
	Total	20259	98.8		
Total		20505	100.0		

MRI\_YP\_D1158 Quality control rating for the subcortical segmentation:



Linden (SCZ-RbG Study) MRI frequencies & histograms







MRI\_YP\_L1004 Cortical thickness of the left entorhinal cortex : Linden

















2.60 2.80 3.00 3.20 3.40 3.60 MRI\_YP\_L1013 Cortical thickness of the left middle temporal gyrus : Linden





MRI\_YP\_L1016 Cortical thickness of the left pars opercularis : Linden











MRI\_YP\_L1022 Cortical thickness of the left precentral gyrus : Linden









MRI\_YP\_L1026 Cortical thickness of the left superior frontal gyrus : Linden





MRI\_YP\_L1028 Cortical thickness of the left superior temporal gyrus : Linden





MRI\_YP\_L1030 Cortical thickness of the left frontal pole: Linden







MRI\_YP\_L1034 Cortical thickness of the right banks superior temporal sulcus : Linden





MRI\_YP\_L1036 Cortical thickness of the right caudal middle frontal gyrus : Linden







MRI\_YP\_L1040 Cortical thickness of the right inferior parietal cortex : Linden





MRI\_YP\_L1042 Cortical thickness of the right isthmus – cingulate cortex : Linden









MRI\_YP\_L1046 Cortical thickness of the right medial orbital frontal cortex : Linden

















MRI\_YP\_L1058 Cortical thickness of the right rostral anterior cingulate cortex : Linden





MRI\_YP\_L1060 Cortical thickness of the right superior frontal gyrus : Linden





MRI\_YP\_L1062 Cortical thickness of the right superior temporal gyrus : Linden





MRI\_YP\_L1064 Cortical thickness of the right frontal pole: Linden










MRI\_YP\_L1070 Surface area of the left hemisphere: Linden





MRI\_YP\_L1072 Total intracranial volume : Linden







MRI\_YP\_L1076 Surface area of the left cuneus cortex : Linden





MRI\_YP\_L1078 Surface area of the left fusiform gyrus : Linden







MRI\_YP\_L1082 Surface area of the left lateral occipital cortex : Linden







MRI\_YP\_L1085 Surface area of the left medial orbital frontal cortex : Linden









MRI\_YP\_L1090 Surface area of the left pars orbitalis : Linden





MRI\_YP\_L1092 Surface area of the left pericalcarine cortex : Linden

















MRI\_YP\_L1100 Surface area of the left superior parietal cortex : Linden





MRI\_YP\_L1102 Surface area of the left supramarginal gyrus : Linden





MRI\_YP\_L1104 Surface area of the left temporal pole : Linden





MRI\_YP\_L1106 Surface area of the left insular cortex: Linden





MRI\_YP\_L1108 Surface area of the right caudal anterior-cingulate cortex : Linden









MRI\_YP\_L1112 Surface area of the right fusiform gyrus : Linden













MRI\_YP\_L1118 Surface area of the right lingual gyrus : Linden





MRI\_YP\_L1120 Surface area of the right middle temporal gyrus : Linden





MRI\_YP\_L1122 Surface area of the right paracentral lobule : Linden





MRI\_YP\_L1124 Surface area of the right pars orbitalis : Linden





MRI\_YP\_L1126 Surface area of the right pericalcarine cortex : Linden





MRI\_YP\_L1128 Surface area of the right posteriorcingulate cortex : Linden





MRI\_YP\_L1130 Surface area of the right precuneus cortex : Linden





MRI\_YP\_L1132 Surface area of the right rostral middle frontal gyrus : Linden





MRI\_YP\_L1134 Surface area of the right superior parietal cortex : Linden





MRI\_YP\_L1136 Surface area of the right supramarginal gyrus : Linden





MRI\_YP\_L1138 Surface area of the right temporal pole : Linden








MRI\_YP\_L1142 Volume of the right lateral ventricle: Linden





MRI\_YP\_L1144 Volume of the right thalamus: Linden



© University of Bristol ALSPAC MRI Neuroimaging Derived Data



MRI\_YP\_L1146 Volume of the right caudate: Linden



MRI\_YP\_L1147 Volume of the left putamen: Linden



MRI\_YP\_L1148 Volume of the right putamen: Linden



MRI\_YP\_L1149 Volume of the left pallidum: Linden



MRI\_YP\_L1150 Volume of the right pallidum: Linden





MRI\_YP\_L1152 Volume of the right hippocampus: Linden





MRI\_YP\_L1154 Volume of the right amygdala: Linden



MRI\_YP\_L1155 Volume of the left accumbens: Linden



MRI\_YP\_L1156 Volume of the right accumbens: Linden

Mixi_11_E1107 addanty control rating for the conteal parcentation. Enden							
		Frequency	Percent	Valid Percent	Cumulative Percent		
Valid	0 pass	137	.7	70.3	70.3		
	1 moderate	54	.3	27.7	97.9		
	2 fail	4	.0	2.1	100.0		
	Total	195	1.0	100.0			
Missing	-10 Did not take part in MRI studies	19614	95.7				
	-9 MRI data not available	2	.0				
	-7 Did not take part in Linden study	694	3.4				
	Total	20310	99.0				
Total		20505	100.0				

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 pass	183	.9	93.8	93.8
	1 moderate	6	.0	3.1	96.9
	2 fail	6	.0	3.1	100.0
	Total	195	1.0	100.0	
Missing	-10 Did not take part in MRI studies	19614	95.7		
	-9 MRI data not available	2	.0		
	-7 Did not take part in Linden study	694	3.4		
	Total	20310	99.0		
Total		20505	100.0		

MRI\_YP\_L1158 Quality control rating for the subcortical segmentation: Linden