

Data supplement to Zhuo et al. Cerebral blood flow alterations specific to auditory verbal hallucinations in schizophrenia. Br J Psychiatry doi: 10.1192/bjp.bp.115.174961

**Table DS1.** Brain regions with significant CBF differences between individuals with and without AVH

Regions	Brodmann areas	Cluster size (voxels)	Peak <i>t</i> values	Peak coordinates in MNI (x, y, z)
<b>AVH &gt; non-AVH</b>				
R_pSTG	22	223	4.07	62, -26, 4
R_Cau	-	496	4.97	10, 0, 10
<b>AVH &lt; non-AVH</b>				
L_MOG/SOG	18, 19	378	-3.90	-18, -100, 12
R_MOG/SOG	19	317	-3.38	28, -90, 20
L_SPL	7	892	-4.30	-32, -54, 48

AVH, individuals with schizophrenia with auditory verbal hallucinations; Cau, caudate nucleus; CBF, cerebral blood flow; L, left; MNI, Montreal Neurological Institute; MOG, middle occipital gyrus; non-AVH, individuals with schizophrenia without auditory verbal hallucinations; pSTG, posterior part of the superior temporal gyrus; R, right; SOG, superior occipital gyrus; SPL, superior parietal lobule.

**Table DS2.** Brain regions with significant CBF differences between individuals with AVH and healthy controls

Regions	Brodmann areas	Cluster size (voxels)	Peak <i>t</i> values	Peak coordinates in MNI (x, y, z)
<b>AVH &gt; HC</b>				
L_aMTG/aITG/TP	20, 21, 38	350	4.67	-52, 10, -28
L_pMTG	21	392	4.76	-58, -34, -12
R_aMTG/aITG/TP	20, 21, 38	377	5.03	38, 8, -46
R_pSTG/pMTG	21, 22	441	5.02	60, -28, 0
L_Put	-	1000	5.18	-30, -8, 4
R_Put	-	1065	4.62	32, -2, 0
L_pMCC	31	93	3.50	-6, -36, 38
R_Th	-	161	3.64	22, -26, 16
<b>AVH &lt; HC</b>				
L_SOG/MOG	18, 19	1018	-5.75	-14, -102, 12
R_SOG/MOG/IOG	18, 19	2248	-5.50	22, -100, 8
L_FP	10	392	-4.27	-20, 64, 14
L_SPL	7	1174	-5.82	-32, -54, 46
L_aINS	13	132	-3.17	-32, 24, 0
R_aMCC/pACC/sACC	24, 32	1558	-4.46	4, 34, 2

aINS, anterior insular cortex; aITG, anterior part of the inferior temporal gyrus; aMTG, anterior part of middle temporal gyrus; AVH, individuals with schizophrenia with auditory verbal hallucinations; CBF, cerebral blood flow; FP, frontal pole; IOG, inferior occipital gyrus; HC, healthy controls; L, left; aMCC, anterior mid-cingulate cortex; MNI, Montreal Neurological Institute; MOG, middle occipital gyrus; pACC, pregenual anterior cingulate cortex; pMCC, posterior mid-cingulate cortex; pMTG, posterior part of middle temporal gyrus; pSTG, posterior part of the superior temporal gyrus; Put, putamen; R, right; sACC, subgenual anterior cingulate cortex; SOG, superior occipital gyrus; SPL, superior parietal lobule; TP, temporal pole; Th, thalamus.

**Table DS3.** Brain regions with significant CBF differences between individuals without AVH and healthy controls

Regions	Brodmann areas	Cluster size (voxels)	Peak <i>t</i> values	Peak coordinates in MNI (x, y, z)
<b>Non-AVH &gt; HC</b>				
L_aMTG/aITG/TP	20, 21, 38	197	3.29	-46, 0, -42
L_pMTG	21	170	3.46	-64, -34, -14
R_aMTG/aITG/TP	20, 21, 38	269	3.98	36, 6, -48
L_Put	-	111	2.98	-30, -6, -10
R_Put	-	513	3.33	30, -2, -12
L_pMCC	31	205	4.41	-4, -38, 36
R_Th	-	156	4.20	22, -26, 10
<b>Non-AVH &lt; HC</b>				
L_SOG/MOG	18	109	-3.04	-16, -106, -4
R_SOG/MOG/IOG	18, 19	1204	-4.11	4, -94, 30
L_FP	10	663	-4.87	-32, 60, 2
L_aINS	13	243	-4.92	-34, 22, 2
R_aMCC/pACC/sACC	24, 32	1619	-4.48	2, 38, 26

aINS, anterior insular cortex; aITG, anterior part of the inferior temporal gyrus; aMCC, anterior mid-cingulate cortex; aMTG, anterior part of middle temporal gyrus; CBF, cerebral blood flow; FP, frontal pole; IOG, inferior occipital gyrus; HC, healthy controls; L, left; MNI, Montreal Neurological Institute; MOG, middle occipital gyrus; non-AVH, individuals with schizophrenia without auditory verbal hallucinations; pACC, pregenual anterior cingulate cortex; pMCC, posterior mid-cingulate cortex; pMTG, posterior part of middle temporal gyrus; Put, putamen; R, right; sACC, subgenual anterior cingulate cortex; SOG, superior occipital gyrus; TP, temporal pole; Th, thalamus.