

SPMgrid Report



Subject info

Patient ID: 003_S_4136_FDG Sex: M Age: 67

Pre-processing and registration step¹

Linear {affine} component

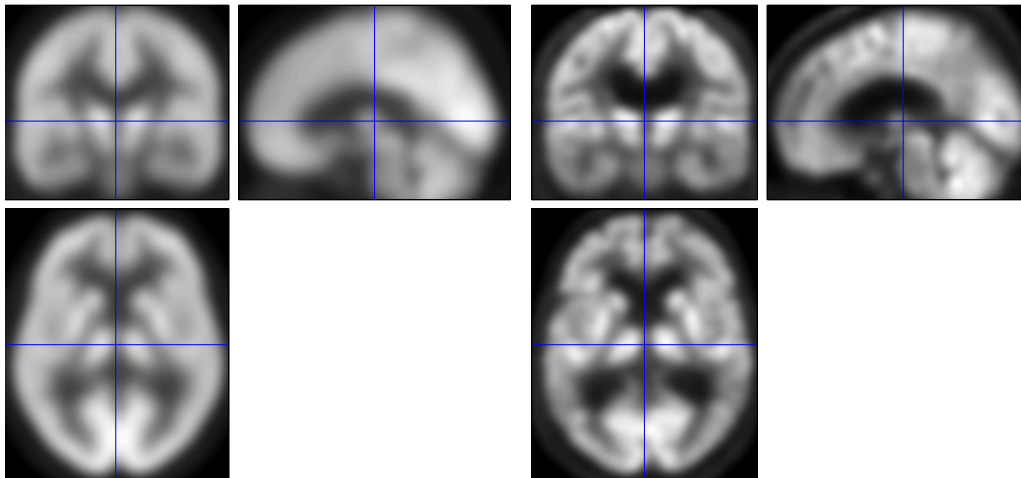
$$X1 = 1.005 \cdot X + 0.005 \cdot Y - 0.005 \cdot Z + 0.319$$

$$Y1 = -0.001 \cdot X + 1.004 \cdot Y + 0.028 \cdot Z - 0.191$$

$$Z1 = 0.005 \cdot X - 0.016 \cdot Y + 1.027 \cdot Z - 1.173$$

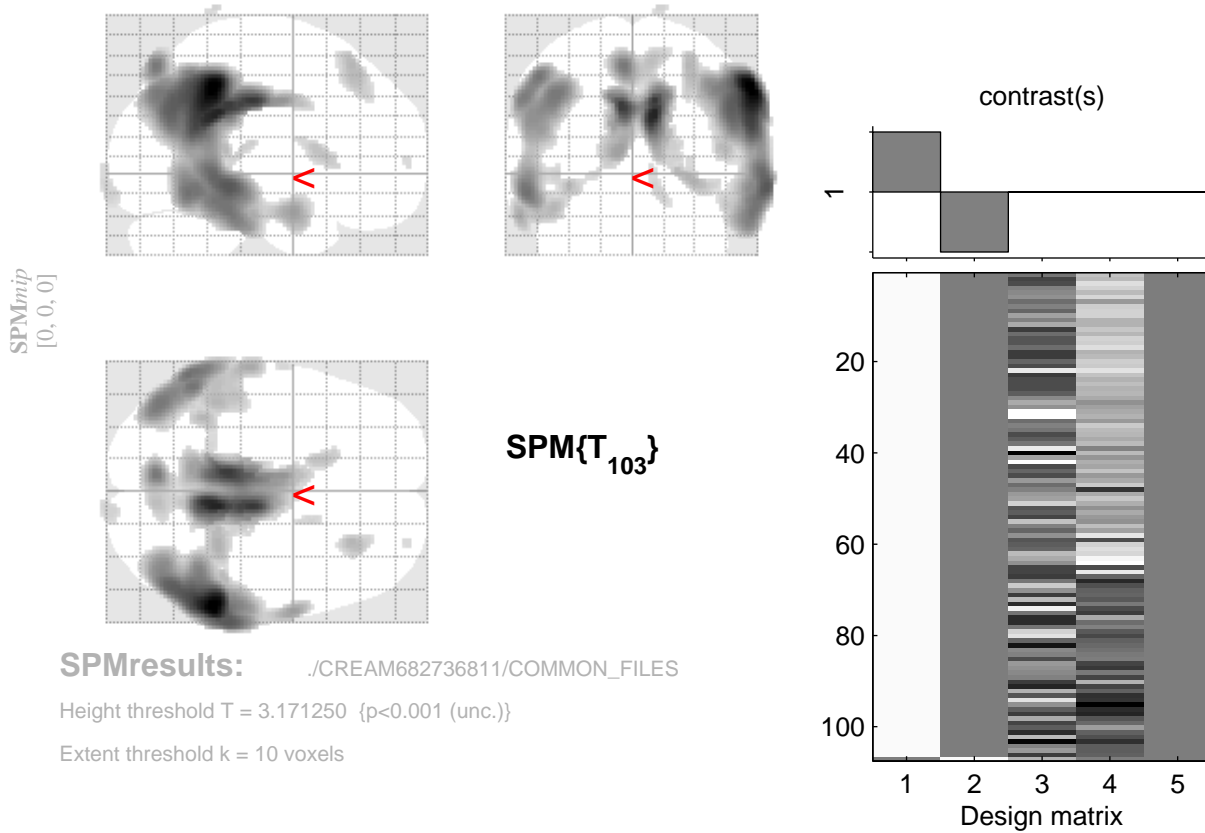
16 nonlinear iterations

7 x 9 x 8 basis functions



¹Registration of the subject's brain to the ICBM152 space. The Template used is an average of 100 subjects (50 Healthy Elderly Controls and 50 patients matched per sex and age).

Hypometabolism



Statistics: *p*-values adjusted for search volume

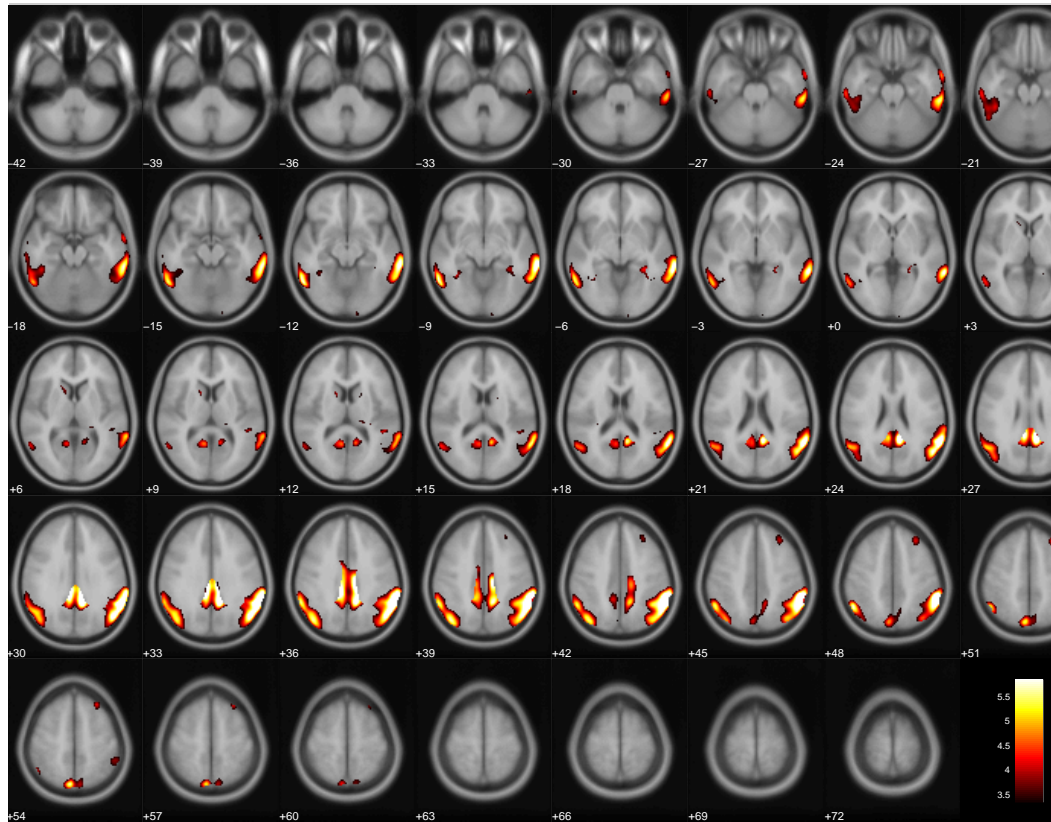
set-level		cluster-level				peak-level					mm mm mm						
p	c	$p_{\text{FWE-corr}}$	$q_{\text{FDR-corr}}$	k_{E}	p_{uncorr}	$p_{\text{FWE-corr}}$	$q_{\text{FDR-corr}}$	T	(Z_{E})	p_{uncorr}							
0.015	9	0.000	0.000	11360	0.000	0.000	0.000	8.82	7.59	0.000	62	-46	42				
						0.000	0.000	7.77	6.87	0.000	10	-44	28				
						0.000	0.000	7.30	6.54	0.000	10	-24	36				
						0.001	0.001	5.85	5.43	0.000	-58	-58	-12				
						0.001	0.001	5.80	5.38	0.000	-52	-56	48				
		0.000	0.000	4250	0.000	0.002	0.001	5.73	5.32	0.000	-44	-72	38				
						0.114	0.131	258	0.021	0.336	0.184	4.16	3.99	0.000	28	30	54
						0.741	0.909	60	0.231	0.540	0.265	3.94	3.80	0.000	-14	12	10
						0.776	0.909	54	0.255	0.897	0.633	3.56	3.45	0.000	12	-100	-12
						0.979	0.781	3.35	3.25	0.001	8	-104	0				
		0.974	0.909	11	0.623	0.920	0.669	3.52	3.41	0.000	14	-44	84				
						0.933	0.909	23	0.461	0.944	0.692	3.47	3.36	0.000	18	8	14
						0.968	0.909	13	0.589	0.969	0.752	3.39	3.30	0.000	-62	-6	-18
						0.977	0.909	10	0.641	0.980	0.781	3.34	3.25	0.001	28	60	4

table shows 3 local maxima more than 8.0mm apart

Height threshold: T = 3.17, p = 0.001 (0.997)
 Extent threshold: k = 10 voxels, p = 0.641 (0.977)
 Expected voxels per cluster, <k> = 44.906
 Expected number of clusters, <c> = 3.76
 FWEp: 4.788, FDRp: 4.731, FWEc: 4250, FDRc: 4250

Degrees of freedom = [1.0, 103.0]
 FWHM = 13.9 15.2 15.4 mm mm mm; 6.9 7.6 7.7 {voxels}
 Volume: 1616192 = 202024 voxels = 445.7 resels
 Voxel size: 2.0 2.0 2.0 mm mm mm; (resel = 406.54 voxels)

Spatial Data Visualization²



²In SPM the spatially normalised images are in neurological convention (with the right side of the brain being at the right side of the image).