

SPMgrid Report



Subject info

Patient ID: 002_S_4171_FDG Sex: M Age: 70

Pre-processing and registration step¹

Linear {affine} component

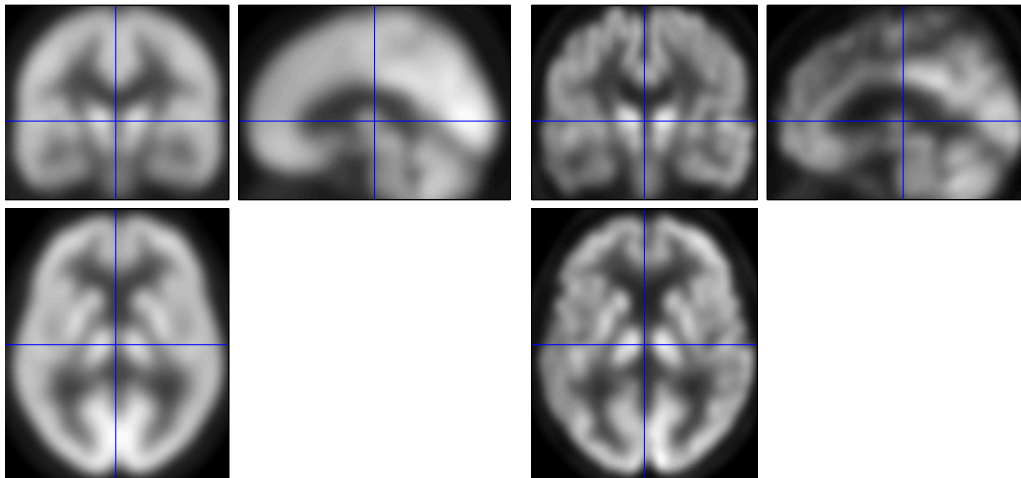
$$X1 = 0.994 \cdot X - 0.006 \cdot Y - 0.011 \cdot Z - 0.247$$

$$Y1 = 0.005 \cdot X + 0.994 \cdot Y - 0.020 \cdot Z + 1.225$$

$$Z1 = 0.003 \cdot X + 0.000 \cdot Y + 1.022 \cdot Z - 0.667$$

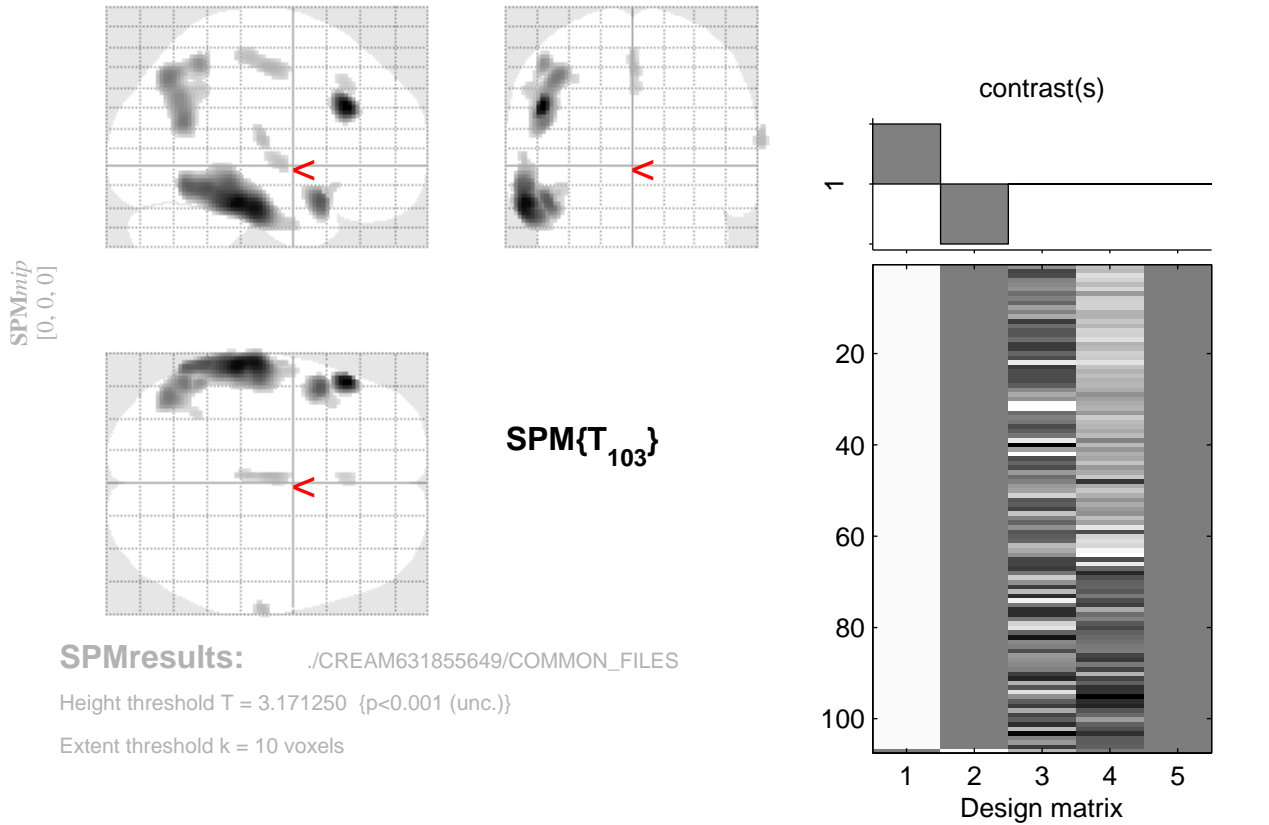
16 nonlinear iterations

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

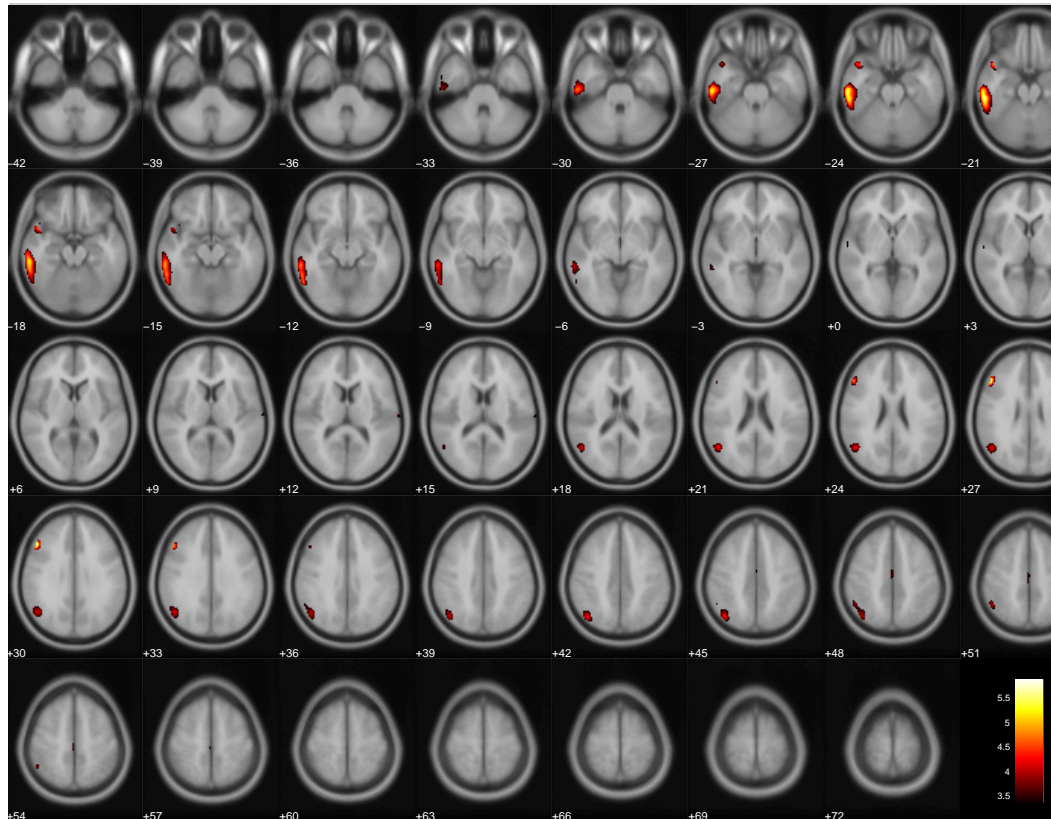
| set-level | | cluster-level | | | | peak-level | | | | | mm mm mm | | |
|-----------|-----|-----------------------|-----------------------|----------------|---------------------|-----------------------|-----------------------|------|------------------|---------------------|----------|-----|-----|
| p | c | $p_{\text{FWE-corr}}$ | $q_{\text{FDR-corr}}$ | k_{E} | p_{uncorr} | $p_{\text{FWE-corr}}$ | $q_{\text{FDR-corr}}$ | T | $(Z_{\text{=}})$ | p_{uncorr} | | | |
| 0.040 | 8 | 0.356 | 0.148 | 141 | 0.074 | 0.002 | 0.004 | 5.73 | 5.33 | 0.000 | -50 | 26 | 28 |
| | | 0.000 | 0.000 | 1465 | 0.000 | 0.003 | 0.004 | 5.59 | 5.21 | 0.000 | -58 | -32 | -22 |
| | | | | | | 0.004 | 0.004 | 5.51 | 5.14 | 0.000 | -60 | -22 | -24 |
| | | | | | | 0.055 | 0.050 | 4.76 | 4.52 | 0.000 | -60 | -48 | -14 |
| | | 0.243 | 0.125 | 180 | 0.047 | 0.073 | 0.052 | 4.68 | 4.44 | 0.000 | -48 | 12 | -20 |
| | | | | | | 0.934 | 0.643 | 3.49 | 3.39 | 0.000 | -42 | 16 | -16 |
| | | 0.001 | 0.001 | 835 | 0.000 | 0.214 | 0.108 | 4.33 | 4.14 | 0.000 | -50 | -60 | 22 |
| | | | | | | 0.217 | 0.108 | 4.33 | 4.14 | 0.000 | -42 | -68 | 44 |
| | | | | | | 0.384 | 0.191 | 4.11 | 3.94 | 0.000 | -48 | -62 | 32 |
| | | 0.508 | 0.191 | 104 | 0.120 | 0.830 | 0.570 | 3.66 | 3.54 | 0.000 | -2 | -12 | 48 |
| | | | | | | 0.896 | 0.617 | 3.56 | 3.45 | 0.000 | -2 | -26 | 54 |
| | | 0.890 | 0.421 | 33 | 0.372 | 0.882 | 0.617 | 3.59 | 3.47 | 0.000 | 68 | -18 | 12 |
| | | 0.918 | 0.421 | 27 | 0.421 | 0.930 | 0.643 | 3.50 | 3.40 | 0.000 | -60 | -10 | 0 |
| | | 0.885 | 0.421 | 34 | 0.365 | 0.975 | 0.685 | 3.37 | 3.28 | 0.001 | -2 | 26 | 40 |

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, $p = 0.640$ (0.978)
 Expected voxels per cluster, $\langle c \rangle = 44.679$
 Expected number of clusters, $\langle c \rangle = 3.80$
 FWEp: 4.792, FDRp: 5.505, FWEc: 835, FDRc: 835

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: 1631952 = 203994 voxels = 452.8 resels
 Voxel size: 2.0 2.0 2.0 mm mm mm; (resel = 404.48 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).