

|    |           |              |
|----|-----------|--------------|
| IN | inputnode | OUT          |
|    |           | flair        |
|    |           | roi          |
|    | utility   | subject_id   |
|    |           | subjects_dir |
|    |           | t1w          |
|    |           | t2w          |

|               |                  |                            |
|---------------|------------------|----------------------------|
| IN            | anat_template_wf | OUT                        |
|               |                  |                            |
| inputnode.t1w |                  |                            |
|               |                  |                            |
|               |                  | outputnode.out_report      |
|               |                  | outputnode.t1w_realign_xfm |
|               |                  | outputnode.t1w_ref         |
|               |                  | outputnode.t1w_valid_list  |

|         |               |          |
|---------|---------------|----------|
| IN      | anat_validate | OUT      |
|         | images        |          |
| in_file |               | out_file |

|                    |                     |                           |
|--------------------|---------------------|---------------------------|
| IN                 | brain_extraction_wf | OUT                       |
|                    |                     |                           |
|                    |                     |                           |
| inputnode.in_files |                     | outputnode.bias_corrected |
|                    |                     | outputnode.out_file       |
|                    |                     | outputnode.out_segm       |

| IN                         | surface_recon_wf | OUT                         |
|----------------------------|------------------|-----------------------------|
| inputnode.ants_segs        |                  | outputnode.fsnative2t1w_xfm |
| inputnode.corrected_t1     |                  | outputnode.out_aparc        |
| inputnode.flair            |                  | outputnode.out_aseg         |
| inputnode.skullstripped_t1 |                  | outputnode.out_brainmask    |
| inputnode.subject_id       |                  | outputnode.subject_id       |
| inputnode.subjects_dir     |                  | outputnode.subjects_dir     |
| inputnode.t1w              |                  | outputnode.surfaces         |
| inputnode.t2w              |                  | outputnode.t1w2fsnative_xfm |

|           |              |          |
|-----------|--------------|----------|
| IN        | applyrefined | OUT      |
|           | fsl          |          |
| in_file   |              | out_file |
| mask_file |              |          |

|           |            |           |
|-----------|------------|-----------|
| IN        | buffernode | OUT       |
|           | utility    |           |
| t1w_brain |            | t1w_brain |
| t1w_mask  |            | t1w_mask  |

|          |          |                  |
|----------|----------|------------------|
| IN       | t1w_dseg | OUT              |
|          | fsl      |                  |
| in_files |          | probability_maps |
|          |          | tissue_class_map |

|         |              |     |
|---------|--------------|-----|
| IN      | lut_t1w_dseg | OUT |
|         | utility      |     |
| in_dseg |              | out |

| IN                            | anat_norm_wf | OUT                      |
|-------------------------------|--------------|--------------------------|
| inputnode.lesion_mask         |              | outputnode.anat2std_xfm  |
| inputnode.moving_image        |              | outputnode.std2anat_xfm  |
| inputnode.moving_mask         |              | outputnode.template      |
| inputnode.moving_segmentation |              | poutputnode.anat2std_xfm |
| inputnode.moving_tpms         |              | poutputnode.standardized |
|                               |              | poutputnode.std2anat_xfm |
| inputnode.orig_t1w            |              | poutputnode.std_dseg     |
|                               |              | poutputnode.std_mask     |
|                               |              | poutputnode.std_tpms     |
|                               |              | poutputnode.template     |

|    |            |     |
|----|------------|-----|
| IN | outputnode | OUT |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    | utility    | OUT |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            | OUT |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |
|    |            |     |

|    |                 |     |
|----|-----------------|-----|
| IN | anat_reports_wf | OUT |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |
|    |                 |     |

|                            |                     |     |
|----------------------------|---------------------|-----|
| IN                         |                     | OUT |
| inputnode.anat2std_xfm     | anat_derivatives_wf |     |
| inputnode.fsnative2t1w_xfm |                     |     |
| inputnode.source_files     |                     |     |
| inputnode.std2anat_xfm     |                     |     |
| inputnode.std_dseg         |                     |     |
| inputnode.std_mask         |                     |     |
| inputnode.std_t1w          |                     |     |
| inputnode.std_tpms         |                     |     |
| inputnode.surfaces         |                     |     |
| inputnode.t1w2fsnative_xfm |                     |     |
| inputnode.t1w_dseg         |                     |     |
| inputnode.t1w_fs_aparc     |                     |     |
| inputnode.t1w_fs_aseg      |                     |     |
| inputnode.t1w_mask         |                     |     |
| inputnode.t1w_preproc      |                     |     |
| inputnode.t1w_ref_xfms     |                     |     |
| inputnode.t1w_tpms         |                     |     |
| inputnode.template         |                     |     |