

|    |           |             |
|----|-----------|-------------|
| IN | inputnode | OUT         |
|    | utility   | bold_file   |
|    |           | bold_mask   |
|    |           | dummy_scans |

|         |          |            |
|---------|----------|------------|
| IN      | val_bold | OUT        |
|         | images   | out_file   |
| in_file |          | out_report |

|        |          |     |
|--------|----------|-----|
| IN     | bold_1st | OUT |
|        | utility  | out |
| inlist |          |     |

|         |              |                      |
|---------|--------------|----------------------|
| IN      | gen_ref      | OUT                  |
|         | registration | n_volumes_to_discard |
| in_file |              | ref_image            |

|        |              |     |
|--------|--------------|-----|
| IN     | validate_1st | OUT |
|        | utility      | out |
| inlist |              |     |

|                  |                  |               |
|------------------|------------------|---------------|
| IN               | calc_dummy_scans | OUT           |
| algo_dummy_scans | utility          |               |
| dummy_scans      |                  | skip_vols_num |

|                    |                                |                                |
|--------------------|--------------------------------|--------------------------------|
| IN                 | enhance_and_skullstrip_bold_wf | OUT                            |
| inputnode.in_file  |                                | outputnode.bias_corrected_file |
|                    |                                | outputnode.mask_file           |
| inputnode.pre_mask |                                | outputnode.skull_stripped_file |

|                   |            |     |
|-------------------|------------|-----|
| IN                | outputnode | OUT |
| algo_dummy_scans  |            |     |
| bold_file         |            |     |
| bold_mask         | utility    |     |
| raw_ref_image     |            |     |
| ref_image         |            |     |
| ref_image_brain   |            |     |
| skip_vols         |            |     |
| validation_report |            |     |

