

Input Data

T1w Images
(M0 optional)

ASL

Anatomical Preprocessing

Bais Correction
Intensity Uniformity
Align T1w Images

Brain Extraction

ASL Preprocessing

Reference Generation
Brain Masking

Slice Timing Correction
Head Motion Correction
Distortion Correction

Confounds
Extraction

Alignment of
T1w and ASL

Preprocessed
ASL

Template

Spatial
Normalization

Brain Tissue
Segmentation

Regional Quantification in ASL Space

Atlas

Regional Quantification
of Voxelwise Maps

Regional
Mean CBF

CBF Computation and Denoising

SCRUB CBF

Standard CBF

PVC CBF

BASIL CBF