

## PBTC-047 MR Imaging Protocol

Brain MR with and without gadolinium will be obtained preferably on the 3T magnet consisting of:

- Sagittal T1 MPRAGE (slice thickness 1.0, 25 cm FOV)
- Axial T2 images (slice thickness 2mm skip 0, 20 cm FOV)
- Axial T2 FLAIR images (slice thickness 4mm skip 0, 20 cm FOV)
- Axial DTI images (slice thickness 2.0 mm skip 0, 22 cm FOV); 35 directions, bvalues: 0 and 1000 s/mm<sup>2</sup>
- Post gadolinium sagittal T1 SPACE (slice thickness 0.9 mm skip 0, 22 cm FOV)
- Axial T1 post gadolinium images through the whole brain (slice thickness 4mm skip 0, 20 cm FOV)

Brain MR with and without gadolinium on 1.5 T:

- Sagittal T1 (slice thickness 5 mm skip 1 mm, 22 cm FOV)
- Axial T2 images (slice thickness 4 mm skip 0 mm, 20 cm FOV)
- Axial T2 FLAIR images (slice thickness 5 mm skip 0 mm, 20 cm FOV)
- Axial DWI, 6 directions (slice thickness 5 mm skip 0 mm, 26 cm FOV)
- Post gadolinium sagittal 3DFSPGR images (slice thickness 1.5 mm no skip, 24 cm FOV)
- Axial T1 post gadolinium (slice thickness 3 mm no skip, 16 cm)

Protocol for Spine

- Sagittal T1 images should be after gadolinium (slice thickness 3 mm skip 0).
- Axial T1 images are after gadolinium (slice thickness 3mm skip 0). Axial T2 images are optional