

PBTC-029 and PBTC-029B

Imaging Protocol

A Phase 1 and Phase II Study of AZD6244 for Recurrent or Refractory Pediatric Low Grade Glioma

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 2mm skip 0, 22 cm FOV)
- Axial SWI images (slice thickness 1.25 mm skip 0, 20 cm FOV)
- 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)
- Axial MPGR (slice thickness 5 mm skip 0 mm, 20 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 FOV)

For Optic Glioma/Optic Pathway Glioma:

3T imaging Preferred:

- Sagittal T1 images (slice thickness 1 mm, 22 cm FOV)
- Axial T2 images (slice thickness 2.5 mm no skip, 20 cm FOV)
- Axial T2 FLAIR images (slice thickness 4.0 mm no skip, 20 cm FOV)
- Axial DTI images, 35 directions (slice thickness 2 mm no skip, 22 cm FOV)
- Axial T2 fat sat images through orbits, (slice thickness 3 mm no skip, 16 cm FOV)
- Axial T1 images through orbits (slice thickness 2 mm no skip, 12 cm FOV)
- Coronal T1 images through orbits (slice thickness 2 mm no skip, 12 cm FOV)
- Post gadolinium coronal T1 fat sat through orbits (slice thickness 3 mm no skip, 16 cm FOV)
- Post gadolinium axial T1 fat sat through orbits (slice thickness 3 mm no skip, 16 cm FOV)
- Post gadolinium sagittal T1 SPACE (slice thickness 0.74 mm, 18 cm FOV)

1.5 T imaging:

- Sagittal T1 images (slice thickness 5mm skip 1mm, 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 diffusion images (slice thickness 5mm skip 0 mm, 26 cm FOV)
- Post gadolinium high resolution axial T1 with fat sat (slice thickness 3 mm skip 0 mm, 16 cm FOV)
- Post gadolinium high resolution coronal T1 with fat sat (slice thickness 3 mm skip 0mm, 16 cm FOV)
- Post gadolinium sagittal FSPGR (slice thickness 1.5 mm, 24 cm FOV)