A Phase II study of Peginterferon alfa-2b (PEGIntron) for pediatric patients with unresectable or recurrent craniopharyngioma.

- Brain MR with and without gadolinium focused on the sellar and suprasellar regions will be obtained preferably on the 3T magnet consisting of:
  - High resolution sagittal T1 images (slice thickness 3mm skip 0, 20cm FOV), high resolution coronal T1 images (slice thickness 3mm skip 0, 16 cm FOV),
  - Axial T2 images (slice thickness 2.5mm thickness skip 0, 20 cm FOV),
  - Axial T2 FLAIR images(slice thickness 4.0 mm, 20 cm FOV),
  - High resolution coronal T2 images (slice thickness 2.0mm FOV 16cm),
  - Post gadolinium high resolution coronal T1 images (slice thickness 3mm skip 0, 16 cm FOV) and
  - Post gadolinium sagittal T1 high resolution images (slice thickness 3mm skip 0, FOV 16 cm) followed by:
    - Axial T1 post-gadolinium images through the whole brain (slice thickness 4mm skip 0, FOV 20 cm).

- Imaging protocol sequences will be sent to the participating sites of the PBTC. Imaging specific protocols will also be sent for 1.5T magnets with the following parameters:
  - High resolution sagittal T1 (slice thickness 3.0mm skip 0, FOV 20 cm), axial T2 images of the whole brain (slice thickness 4.0mm skip 0, FOV 20cm),
  - axial T2 FLAIR of whole brain(slice thickness 4.0 mm skip 0, FOV 20cm),
  - axial T1 images of the whole brain (slice thickness 4mm skip 0, FOV 20cm),
  - coronal FSE T2(slice thickness 3 mm, interleaved, FOV 16 cm),
  - coronal T1 (slice thickness 3mm interleaved, FOV 16 cm),
  - Post-gadolinium high resolution coronal T1 and sagittal T1 images (3mm skip 0, FOV 16 cm).