

**LSU Health Sciences Center-Shreveport
Gamma Knife
Proc. 19.13.12**

Gamma Knife/Special Procedures

Policy:

Provide staff with written documentation of specific procedures and techniques to be used while obtaining scans for Gamma Knife treatment planning. All scans will be recorded on the PACS System and transferred to the treatment planning system located in Radiation Oncology.

Procedure:

1. The Special Procedures staff will place the x-ray fixation device to the table.
2. Once the patient arrives at Special Procedures and is placed on the table, the assisting Gamma Knife nurse or physician will place the x-ray indicator on the head frame.
3. The nurse or physician will check for proper alignment of the of the x-ray indicator to assure the proper level of the frame.
4. Films will be used to verify proper alignment of the fiducials.
5. Once the films are completed, the neurosurgeon will check the fiducials to verify proper alignment. If the fiducials are not properly aligned, the nurse or neurosurgeon will reposition the patient and the technologist will need to repeat the films.
6. Special Procedure technologist will prepare patients and set up sterile drapes.
7. Once the films are approved by the neurosurgeon, the images will be sent to the PAC's system and transferred to Gamma Knife treatment planning system.

Written: 2007

Reviewed: 12/2008

