

**LSU Health Sciences Center
Gamma Knife
Proc. 19.13.14**

Treatment Plan & Treatment Procedure

Policy:

This policy is to provide guidelines on the treatment planning and treatment procedures of a Gamma Knife patient once he/she has arrived from MR, CT, or Specials to the Gamma Knife Suite on day of the procedure.

Procedure:

Once patient has arrived to Gamma Knife Suite, the Gamma Knife Team will carry out their assigned duties.

1. Upon arrival of patient, nurse will notify physicist, radiation oncologist, and neurosurgeon.
2. Nurse will continue to monitor patient's vitals and document them during the holding and treatment phase
3. Nurse will present physician with written prescription and images with treatment volume and critical structures drawn by Neurosurgeon.
4. Physicist will review prescription and images and begin treatment planning process. If additional information is needed for planning, the physicist will contact a physician for assistance or the physicist will notify physicians once plan is complete.
5. Gamma Knife Team will review plan, verify treatment volume, dose to critical structure, dose to treatment volume. Collision coordinates, and approve plan. All signatures will be obtained prior to initiation of treatment.
6. Physicist will transfer treatment plan to Gamma Knife console, a test run of the coordinates will be verifies prior to patient entering the treatment room. Physicist will approve Gamma Knife daily QA and make a visual inspection of safety devices and assure appropriate collimator helmet is mounted Physicist will notify nurse to transport patient into treatment room.
7. Nurse will transport patient into the treatment room, explain process to patient, and assist patient to treatment couch. Continuous monitoring will be performed and documented on the 23 Hour OP Note Form during the entire treatment procedures.
8. Gamma Knife Team will affix patient into the treatment position assure coordinates. According to LAC 33:XV.751.F.3, an authorized physicist and an authorized user will be physically present during the entire treatment.

9. All staff will vacate treatment room, return to treatment console, and licensed physician will initiate beam on in accordance with State Legislation R.S. 37:3200.LA Licensure.
10. After completion of treatment, physician will remove head frame with nursing assistance.

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