

**LSU Health Sciences Center-Shreveport
Gamma Knife
Proc. 19.13.15**

Special Physics Consult

Policy:

To ensure that the Division of Radiation Oncology's policy and procedure concerning provision of consulting services meet the organization's standards. The Medical Physicist shall accept all request to perform a special physics consultation. Gamma Knife and Total Body Irradiation cases, TBI treatment procedures, and any other clinical procedure, which requires highly skilled physics evaluations or participation in clinical procedures.

Procedure:

Gamma Knife cases require a Special Physics Consultation prior to every clinical procedures. This special physics consultation includes quality control checks for equipment, direct communication with Neurosurgeons and Radiation Oncologist regarding treatment planning and dose specifications, and hands on assistance with treatment procedures. This is a standing order for all Gamma Knife clinical procedures.

Total Body Irradiation requires a Special Physics Consultation of the day of simulation. TBI simulations are clinical set-ups, which requires extensive measurements of source to skin distances, thicknesses of patient's anatomy, positioning techniques, and dose evaluation using TLD or ionization chamber measurements. The physicist will participate with the above clinical procedures. This is a standing order for TBI simulation and clinical treatments.

Other procedures, which may require a special physics consult, may include radiation dose evaluation to a fetus, assisting with surgical procedures, and any clinical procedures which requires hands on participation of a medical physicist.

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