

**LSU Health Sciences Center
Gamma Knife
Proc. 19.13.26**

**Overall Physics Quality Assurance
For Gamma Knife**

Policy:

Gamma Knife Services will operate under Louisiana written guideline, in accordance with LAC 33:XV.747-762.

Procedure:

Physicist will perform on-going QA and calibrations on Gamma Knife Unit with supporting documentation of results. Physics QA and/or calibration requirements are performed daily QA when equipment is in use, monthly calibrations, bi-annual leak test, annual full calibration, and five year full service check by OEM.

Daily/Prior to treatment- Prior to treating, Gamma Knife Unit will be checked for proper operation prior to any clinical procedure. This will be performed and documented by Physics.

Monthly-Output & calibration is checked by Physics and documented.

Quarterly-Radioactive material inventory is performed and documented by Physics.

Bi-annual-Leak test is performed and documented by Physics.

Annual- Full calibration is performed by Physics and documented.

5 year calibration- Elekta performs equipment inspection and full calibration.

A Physics Calendar will be completed on the Gamma Knife Unit QA and calibrations, to document the physics performed at the stated intervals.

Written: 2007

Reviewed: 12/2008