Technology and Equipment Committee Report

Gamma Knife Material

For the Proposed 2009 SMFP

For the N.C. State Health Coordinating Council Meeting On

May 28, 2008

Gamma Knife

Definition

"Gamma Knife," as defined in General Statute § 131E-176(7c), means "equipment which emits photon beams from a stationary radioactive cobalt source to treat lesions deep within the brain and is one type of stereotactic radiosurgery."

Two types of equipment, both using photon beams, are available for performing this kind of radiosurgery. In one type, LINAC, beams from a linear accelerator are focused from a device that rotates around the patient. The other type of equipment, gamma knife, emits 201 beams from stationary radioactive cobalt sources.

Facility Inventory-Service Volume

Gamma knife fixed and movable equipment capital costs exceed \$3,500,000. In the 2008 Hospital Licensure Renewal Applications, which reflect 2007 data, there is one gamma knife that was approved for acquisition pursuant to Policy AC-3 of the 1998 SMFP. The approved unit is located at Wake Forest University Baptist Medical Center, and became operational effective September 1, 1999. During FY 2006-07, 322 gamma knife procedures were reported. Pitt County Memorial Hospital received a Certificate of Need pursuant to a need determination in the 2003 State Medical Facilities Plan (SMFP) for one gamma knife to serve the eastern portion of the state (HSAs IV, V and VI). Pitt began offering service as of October 2005. During FY 2006-07, 119 gamma knife procedures were reported.

Gamma Knife Need Determination Methodology

The gamma knife located at Wake Forest University Baptist Medical Center in HSA II serves the western portion of the state (HSAs I, II, and III). The gamma knife located at Pitt County Memorial Hospital in HSA VI serves the eastern portion of the state (HSAs IV, V and VI). The two gamma knives assure that the western and eastern portions of the state have equal access to gamma knife services.

There is adequate capacity and geographical accessibility for gamma knife services in the State.

Need Determination

It is determined that there is no need for an additional gamma knife anywhere in the state.

Table 9E: Need Determination for Additional Gamma Knife (Scheduled for Certificate of Need Review during 2008)

Gamma Knife Planning Region	HSA	Gamma Knife Need Determination*	CON Application Due Date**	CON Beginning Review Date
It is determined that	at there is r	o need for an additional g	gamma knife anywhe	ere in the State.

^{*} Need determinations as shown in this document may be increased or decreased during the year pursuant to Policy GEN-2 (See Chapter 4).

^{**}Application Due Dates are absolute deadlines. The filing deadline is 5:30 p.m. on the Application Due Date. The filing deadline is absolute (See Chapter 3).