**RPC Gamma Knife TLD Phantom**

Guidelines for irradiating the RPC Gamma Knife TLD Phantom.

**Procedures:**

1. Note that the RPC Gamma Knife TLD phantom is identical to the Leksell Radiation Phantom TLD cassette that slides into the Spherical dosimetry phantom (figure 1). There are two TLD capsules in the center of the RPC Gamma Knife TLD phantom.

2. Please assemble the Leksell Spherical dosimetry phantom in the Gamma Knife unit and slide the RPC Gamma Knife TLD phantom into the slot in the sphere such that the TLD phantom is in the axial plane. Please align the TLD phantom on the patient’s Left-Right and Anterior-Posterior, based on the labeling found on the phantom.

3. Using 18 mm cone (for Gamma Knife C units) or 16 mm cone (for Perfexion units), deliver a dose of 6 Gy to the RPC TLD. The TLD are located in a volume that is 8 mm x 8 mm x 4 mm in the center of the RPC Gamma Knife TLD phantom and is located symmetrically about the center of the spherical dosimetry phantom. **Please endeavor to deliver a uniform dose of 6 Gy to the RPC TLD volume described above.**

4. Return the RPC Gamma Knife TLD phantom to the RPC.

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**Figure 1**

Foot of Treatment couch