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ACCURAY CYBERKNIFE® STATE-OF-THE-ART RADIATION TECHNOLOGY



Jeffrey A. Brown M.D.

Jeffrey A. Brown, M.D. has been appointed Director of CyberKnife® Neurosurgery at Winthrop University Hospital, Mineola, New York.

The CyberKnife facility at Winthrop offers patients with otherwise untreatable or inaccessible tumors – both benign and malignant – new hope. It adopts a non-invasive and scientific approach to stereotactic radiosurgery. It takes the treatment of central nervous system tumors and tumors of other sites in the body to new levels. Winthrop’s program has been spearheaded by the Divisions of Neurosurgery and Radiation Oncology. Conventional stereotactic radiosurgery was until now restricted to treating brain lesions in a single session. With CyberKnife this is no longer the case.



State-of-the-Art CyberKnife® Equipment

CyberKnife employs groundbreaking cruise missile guidance technology to target and track tumors and lesions anywhere in the body with computerized image-guided precision. These views are provided by several X-ray cameras configured with powerful computer software. This continuously updates the target's position during treatment. They feed the images to a the computer-controlled robotic arm that carries an advanced linear accelerator (radiation source) that delivers hundreds of radiation beams to the designated site.



100 Merrick Rd., Rockville Centre, New York

With the data received from the X-rays, the robot is in constant motion. Computers monitor the anatomy, check and recheck the patient's position and compensate for the slightest movements by instantly repositioning the linear accelerator so it can deliver the radiation beams quickly and accurately. On its own, each beam is relatively weak. However, when the beams converge on the target, their power is precise; so precise that physicians can destroy even deeply imbedded tumors and lesions with complex shapes without harming adjacent healthy tissue.



600 Northern Blvd., Great Neck, New York

Achieving surgical-like outcomes, CyberKnife can be an alternative to open surgery. Treatments are performed as outpatients. Anesthesia is unnecessary. There is no blood loss. The complication risk is lowered.

Dr. Brown has 12 years experience in radiosurgery of the brain. He has published peer-reviewed papers in the scientific literature on the subject and is a member of the American Society of Stereotactic and Functional Neurosurgery.

For additional information on Accuray™ CyberKnife®, please visit www accuray.com.