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The Precision Radiotherapy Center

WEST CHESTER, Ohio -- The Precision Radiotherapy Center, a partnership of the Mayfield Clinic and University Radiology Associates, opened in September 2003 as the region's first facility to offer stereotactic radiosurgery for treatment of tumors both inside and outside the head. Candidates for treatment include patients with benign and malignant tumors of the brain, head, neck, spine, lung, liver and prostate.

The center's breakthrough technology, Novalis® Shaped Beam Surgery™, attacks tumors and other lesions with shaped, high-dosage beams of radiation. The technology provides an alternative to invasive surgery in some cases, enabling physicians to treat patients with tumors and other abnormalities on an outpatient basis. Many patients will benefit by avoiding the risks associated with an open operation, hospitalization, and a prolonged recovery.

Patients are treated with radiosurgery in different ways. Stereotactic radiosurgery can involve a single potent dose of radiation during a single visit; or it can involve a fraction of the complete radiation dose over the course of several visits. Single-fraction radiosurgery requires sedation, a head ring to keep the head immobile, and meticulous treatment planning. Fractionated, or multi-fraction stereotactic radiosurgery, requires patients to wear a mask to ensure immobilization.

The Novalis® Shaped Beam Surgery™ system is manufactured by BrainLAB AG.