

Henry Ford Hospital

Varian EDGE™ Radiosurgery System



Henry Ford Health System chose SSOE Group to provide architectural and engineering services, which included the removal of a linear accelerator (LINAC) and installation of a new Varian EDGE radiosurgery system in an existing vault in the basement of Henry Ford Hospital. Initially, the vault was not adequately shielded for the radiation output of the new equipment, as determined by the client's on-staff physicist. SSOE worked closely with the physicist, shielding contractor, and construction manager to creatively solve this problem and ultimately provided a fully-shielded treatment room to house the first EDGE radiosurgery LINAC of its kind in North America—second in the world.

SSOE has become a trusted partner of Henry Ford over the years, often called upon to provide our expertise in some of the most challenging of circumstances. We pride ourselves on providing the finest solutions in architectural, structural, mechanical, and engineering services to allow our customers to provide their patients with unparalleled healthcare. The EDGE radiosurgery system allows doctors to minimize treatment time and provide more accurate treatment of cancerous tumors, while minimizing radiation damage to normal tissue surrounding the tumor.

value promise

The technology installed by SSOE allows the client to quadruple patient treatments, reduce the number of visits, and treat cancerous tumors more accurately.

size 2,000 SF / \$1.5 M in construction and equipment

location Detroit, MI

highlights

Design-build

Floor-to-ceiling concrete-filled walls

Complex scope and magnitude

Existing vault upgrade

Installed fully-integrated system, significantly minimizing treatment time and offering real-time tumor tracking

Second fully-shielded treatment room in the world

On time and within budget