

# **O-Arm® Imaging System** for Spinal Surgeries

Precise intraoperative navigation for greater safety and accuracy Spinal fusion surgery — non-fusion spinal surgery — resection of spinal tumors



The only system of its kind in Western New York.

## Sharper imaging:

- Confirms complete tumor removal or correct hardware placement while surgery is in progress, contributing to better outcomes and reducing need for reoperation.
- Helps surgeon avoid sensitive structures to reduce risk of surgery-related neurologic deficits.

### **Faster imaging:**

- Delivers imaging in real time to reflect anatomical changes that occur during surgery.
- Surgeon can navigate within seconds after image is captured.
- Helps eliminate respiration-related patient artifacts for crisper image.

#### **Navigation system:**

• Guides surgeon to the surgical target along the safest, least-invasive route.

## **Partners In Practice**

medical information for physicians by physicians

# **The Process**

The O-Arm<sup>®</sup> intraoperative system creates 360-degree 3D scans in just seconds. Combined with StealthStation<sup>®</sup>, a GPS-like navigation system, it enables the surgeon to view any part of the spine —including the cervical-thoracic junction—with a wide field and high-resolution view (3 megapixels) to help avoid sensitive structures. The doughnut-shaped gantry can open and close to allow easier lateral patient access.

## **Additional Benefits**

- Reduces patient exposure to radiation.
- Shortens operating time.
- System eliminates need for manual repositioning of the patient: At the press of a button, the O-Arm® returns to preset coordinates showing the best views.
- Distortion-free flat-panel detector and 32kW generator support imaging of obese patients and difficult-to-image areas of the anatomy.
- Closed-gantry system safeguards sterility.

# **Meet the Spinal Surgery Team**



Andrew J. Fabiano, MD Assistant Professor of Neurosurgery and Oncology



Robert Fenstermaker, MD Professor of Neurosurgery and Oncology Chair, Department of Neurosurgery Director, Neuro-Oncology Program



## **Confer with an RPCI Physician / Request Information / Refer a Patient**

To connect with an RPCI physician, request information, or refer a patient Monday-Friday, 8 a.m.- 8 p.m. (excluding holidays), call **716-845-7763** or email **rpmd@roswellpark.org**.



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