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

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.

The only system of its kind in Western New York.

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The Process

The O-Arm® intraoperative system creates 360-degree 3D scans in just seconds. Combined with StealthStation®, 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.