

Vitreia[®] Advanced Clinical Applications

Endovascular Stent Planning

The Endovascular Stent Planning (EVSP) application by Vital Images is designed to provide visualization and communication tools for endovascular repair (EVAR) procedures. Endovascular Stent Planning is an advanced clinical application for the planning of stent implants using data acquired by CT scanners.



The EVSP application provides automated measurements required for pre-surgical planning and matches anatomy measurements with stents from twelve different stent manufacturers.

- Automated segmentation of aorta and iliacs
- Automated stent measurements
- Generic and specified stent manufacturer templates
- Review and compare two exams
- Endovascular Stent Planning reports

Many patients have anatomy not suitable for endovascular repair; therefore, preplanning and device selection is crucial to success. Common anatomical considerations of endovascular repair candidates include:

- Iliofemoral access
- Proximal attachment site (infrarenal neck)
- Aneurysm: Maximum diameter, length, tortuosity
- Aorta: Calcified, narrowed, or challenging bifurcation
- Distal attachment site (commonly the iliac arteries)