Advantages Of Fusion Imaging Techniques For Iliac And Extremity Interventions
The Philips Vessel Navigator Can Reduce Operator And Patient Radiation Exposure And Contrast Dose And Improve Guidance

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Disclosures
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- Abbott
- Bard
- Biotronik
- Boston Sc
- Medtronic
- Medtronic
- Merit
- Spectranetics
- Terumo
- Vygon
- WL Gore

X-ray exposure

Road mapping for catheter navigation
- Increase X-rays exposure
- 2D X-ray image guidance
- Increase the amount of contrast product
- Temporary

GPS...for catheter

Vessel Navigator® (Philips)
(Fusion software)
- Live 3D catheter navigation for use in conjunction with interventional X-ray systems
- Vessel Navigator fuses live interventional X-ray images with pre-acquired 3D MRI or CT images of the patient’s vascular structures
- Advantages:
To enhanced real-time visual guidance, to reduce contrast medium usage; to reduce procedure time; to reduce X-rays exposure
Sources
AngioCT scan / AngioMRI
Local network / External sources (USB key, CD)

One-click vessel segmentation

Ring markers

Angulation registration

Different volume rendering visualization
Image fusion
Two incidences: 0° / 30-60°

Femoropopliteal stent implantation

Iliac procedures

SOFT
ClinicalTrials.gov Identifier: submitted
A prospective single centre randomized interventional controlled open trial comparing patient and staff safety during peripheral endovascular arterial revascularisation using advanced imaging guidance technology to control group without imaging guidance

- Single-center, controlled, randomized study
- Primary endpoint: Dose area product (DAP) by the end of the procedure
- 44 patients in each arm
- Recruiting

PI: Blandine Maurel, MD, PhD

Take home message
Vessel Navigator® could makes easier PAD procedures (Navigation – Catheterization - Right projection angle)

SOFT trial is assessing if Vessel Navigator could decrease for PAD procedure time, contrast product amount and X-rays exposure.

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