Advantages of Fusion and How it Reduces Contrast and X-ray Dosage for Complex AAA Repairs: How to Eliminate Registration Errors Due to Changes in Anatomy from Vascular Devices

Neal S Cayne, MD
Director of Endovascular Surgery
Division of Vascular Surgery
New York University Langone Medical Center
New York, NY

DISCLOSURES
Cook – Consultant/Proctor

Fusion Software
• Links-Preop CTA → Live Fluoroscopy
• Simplifies the Case
• Limits OR Time, Contrast and Radiation

Fusion Software
• 3D Fluoroscopic Overlay
• Easy, Fast Visceral Pre-Cannulation
• No Contrast
• Avoids Multiple Angiograms
Straight Forward Cases

- No Pre-cannulation
- Rely on Fusion
- Stiff Devices Can Change Anatomy
- Limited Contrast Angio
- Adjust Overlay to Angio
- Visceral Origins Maintain Spatial Relation to One Another

Conclusion

- Utilization of fusion for complex endovascular AAA cases can help simplify the case and reduce contrast as well as radiation dose