

Heart Rhythm Society Scientific Sessions 2018
*New Tools for Electrophysiologists:
The Treatment of Central Sleep Apnea
in Heart Failure Patients:
Implant Techniques*

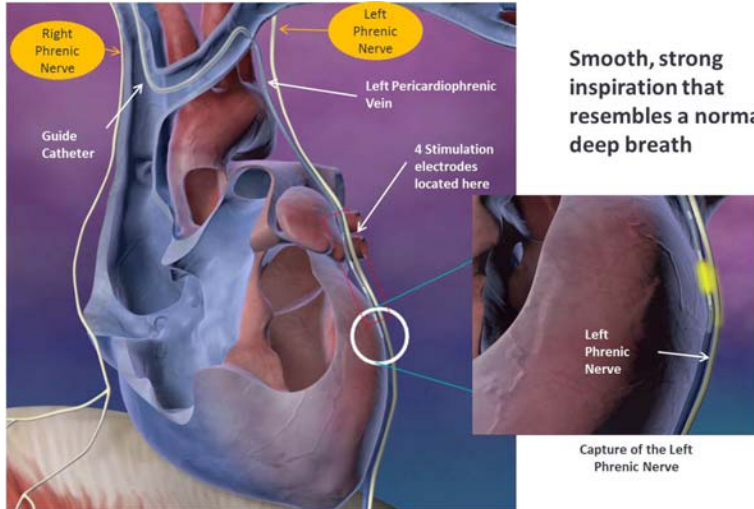


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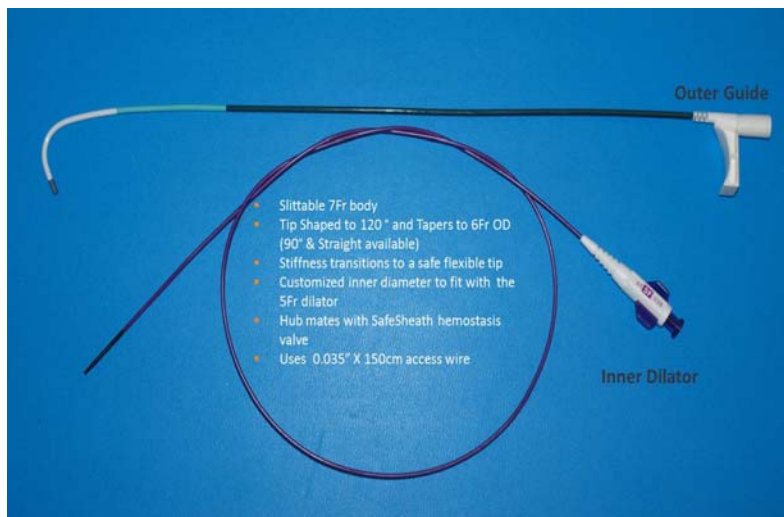
Disclosures: Ralph Augostini, MD

- Respicardia: Implant Proctor Training
- Medical Advisory Board: Medtronic Corporation
- Research Funding: Biosense Webster, Boston Scientific, Cardionomics, Medtronic, Respicardia, St. Jude Medical

Implant Technique: Target Stimulation Sites



Implant Tools: Guide Catheter



Implant Tools: Sub-Selection Catheters

Merit Impress Family of Sub Selection Catheters

Catheter Requirements:

- 5 Fr OD (maximum)
- 0.089" ID (minimum)
- Compatible length with respiguide®
outer catheter (35 cm)
- Flexible atraumatic tip
- Torqueable shaft
- Tapered tip (optional)



Implant Technique: Crossing Over



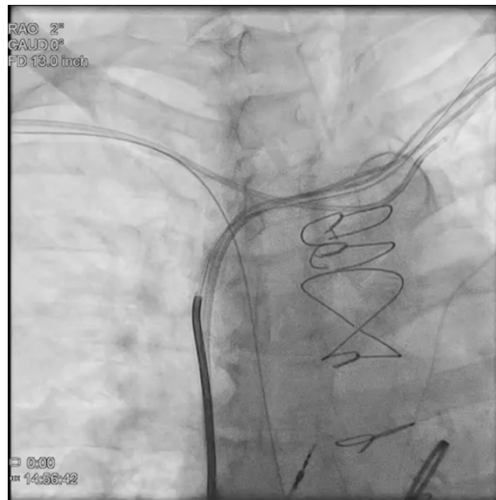
“VANES”

- Visualize
- Access
- Navigate
- Excite
- Stabilize

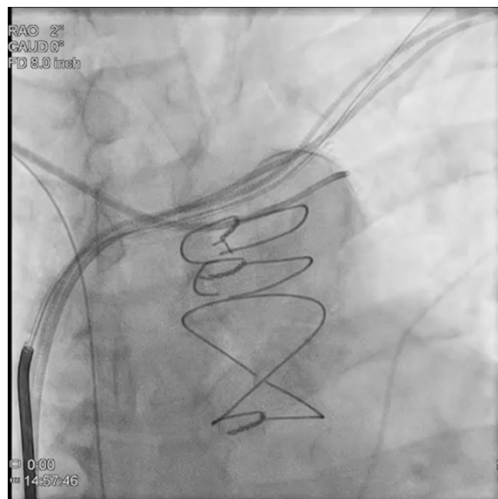


Author: Harmid

Implant Technique: **Visualize** Sub-Selective



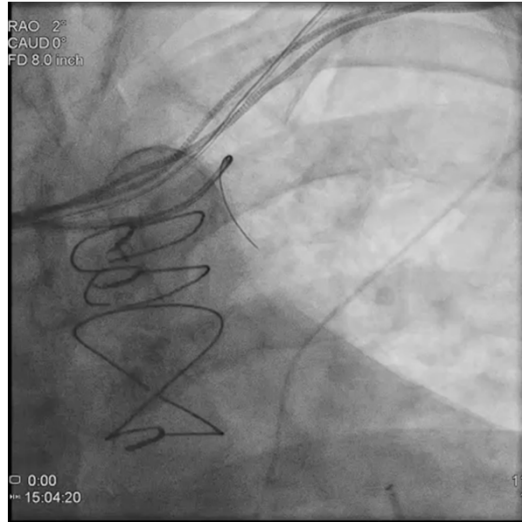
Implant Technique: **Visualize Puff Probing**



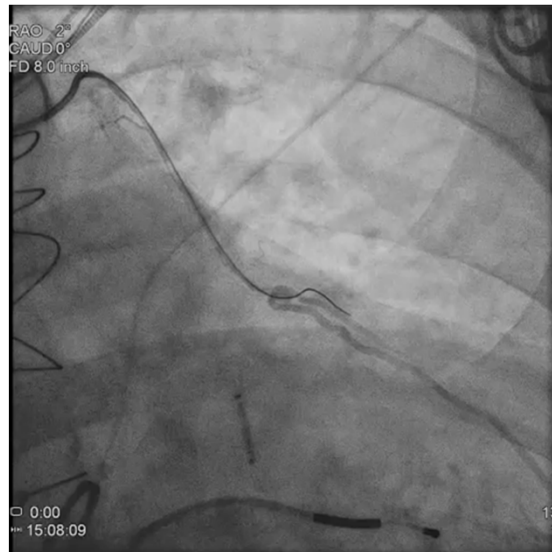
Implant Technique: **Access .014 Wire**



Implant Technique: **Access .014 Floppy Wire**



Implant Technique: **Access LPV**



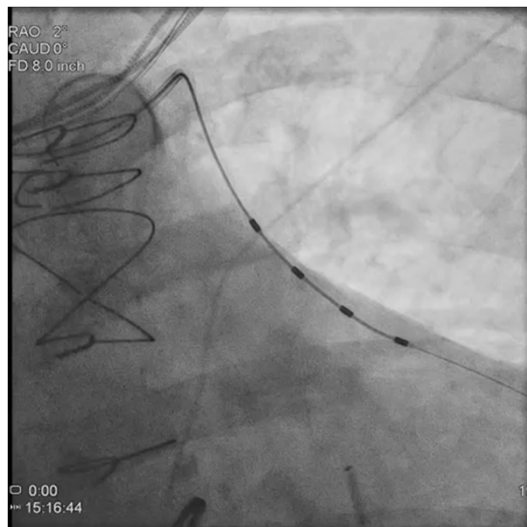
Implant Technique: **Navigate** .014 apically



Implant LQS Lead: **Navigate** Left PPV



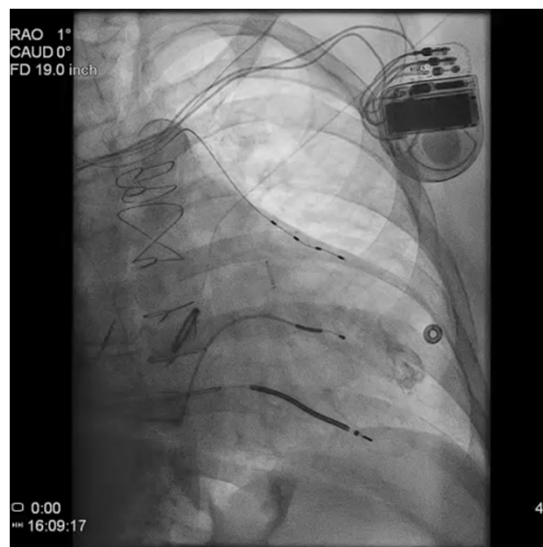
Implant LQS Lead: **Navigate** Inspiration



LQS Lead: **Excite**

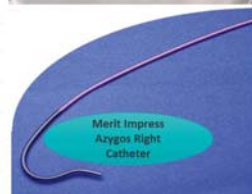


Electrical Testing: **Excite** LQS Lead

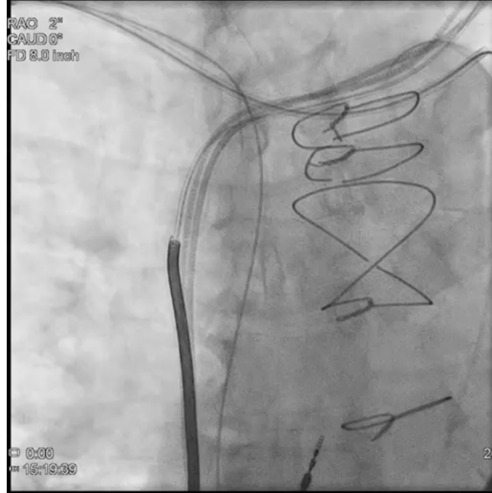


Implant Technique: **Sensing** Lead Tools

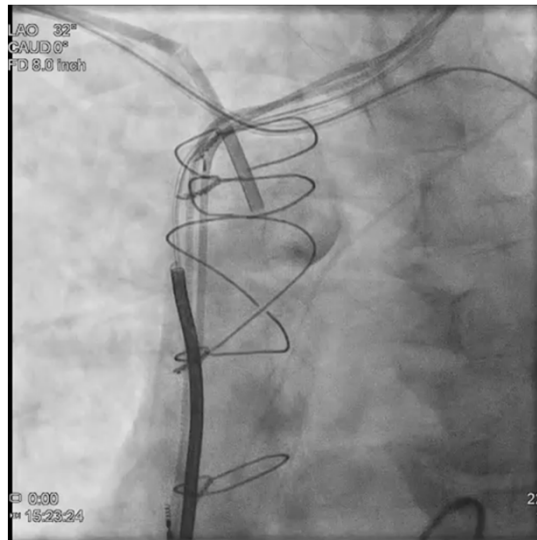
- Coronary Sinus-Right Catheter
- Re-use left-side sub selection catheter
- Merit Azygos Right Catheter
- 0.035" Glide Wire
- 0.014" Guide Wire



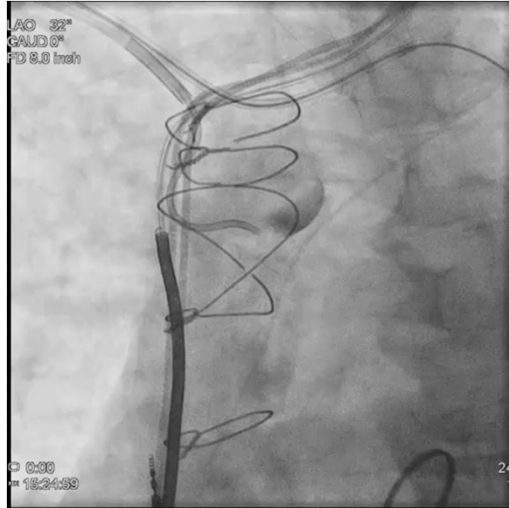
Implant Technique: **Visualize Azygous**



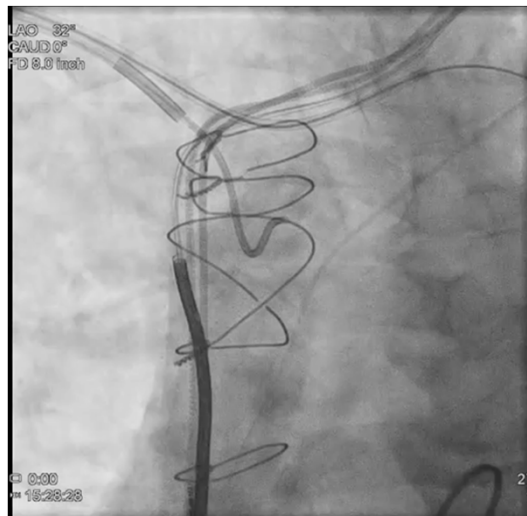
Implant Technique: **Visualize Azygous**



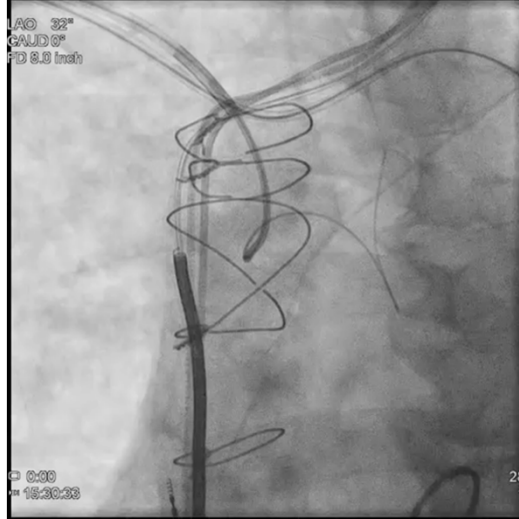
Implant Technique: **Visualize** Azygous with Sub-selection Catheter



Implant Technique: **Access** Azygous Ostial Valve with Glide wire



Implant Technique: **Access** Azygous and Deep Seat Wire/Sheaths



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Implant Technique: **Visualize** Azygous Target Branches

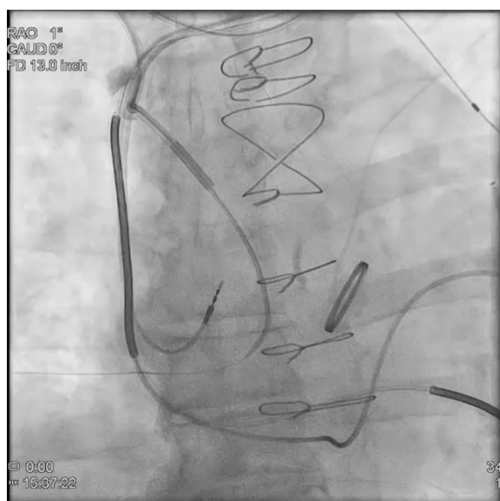


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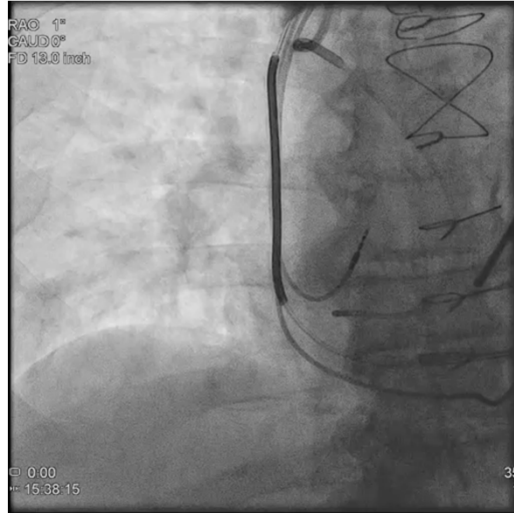
Implant Technique: **Access** Target Branch



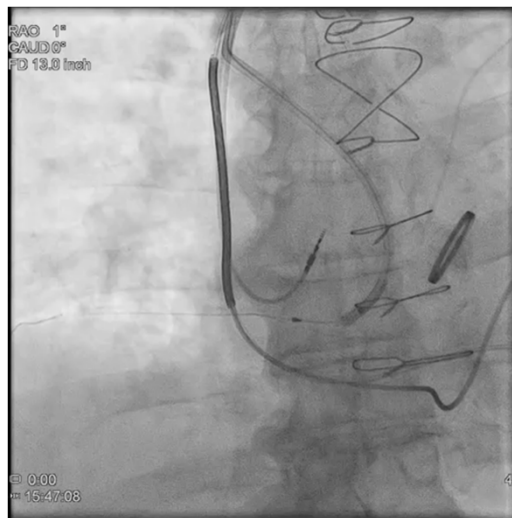
Implant Technique: **Access** Sub-Selective Catheter and Wire



Implant Technique: **Visualize** Sub-Selective Target Branch



Implant Technique: **Navigate** Sensing Lead



Implant Technique: **Stabilize Leads/Generator** Successful Implant!

