Thoracic Arch Device
- Unmet need in TEVAR
  - >30% (?): thoracic aortic pathologies involve very proximal descending, arch and ascending aorta
  - Proximal dTA lesions currently repaired with conventional devices may be better repaired with more proximal extension of LZ
  - Eliminates adjunctive procedures such as hybrid repair, extra-anatomic bypasses, and chimneys
- Off-the-shelf solution

Bolton Arch Branch Graft
- Based on Relay® NBS (Non-Bare Stent) Plus platform
- “Off-the-shelf” (var. prox diam, std. branch position and endograft length)
- Large single aperture for ease of cannulation w/ 2 internal tunnel(s) for innominate and L CCA
- Intended for Zone 0 deployment

Double Branch Device
- Posterior branch - innominate
- Anterior branch - L CCA

Bolton Arch Branch Endograft
- “Lock Stent” mechanism for bridging stent
  - Engagement lock within the internal tunnel prevents separation of the bridging stent
Next Gen Delivery System

Mechanical Advantage

Revised Release Grip

Delivery System Summary

- Low Profile Delivery System
  - Leverages Relay PRO (19F) platform currently in trial in EU
- Dual Sheath Technology
  - Enhances arch navigation
- Accurate Deployment
  - Staged deployment from dual sheath releases stored energy
  - Pre-curved Nitinol catheter self-aligns tunnels to the greater curve

Global Clinical Experience To-Date

- Single Branch (n=10)
  - Custom Made Program (5 centers)
  - Initial feasibility experience
- Double Branch (n=46)
  - Custom Made Program (13 centers)
  - Clinical data based on site self-reporting to local/regional clinical specialists

Double Branch Clinical Summary

|                  | Male (%) | Female (%) | Total (%)
|------------------|----------|------------|-----------
| N                | 31       | 25         | 56        |
| Mean Age         | 72.3     | 72.3       | 72.3      |
| Pathology        |          |            |           |
| TAA              | 24 (77.4%) | 17 | 77.4% |
| PAA              | 1 (3.2%)  | 1          | 3.2%      |
| Dissection       | 5 (16.2%) | 4          | 16.2%     |
| Pseudoaneurysm   | 1 (3.2%)  | 1          | 3.2%      |
| Target Vessels Bridged | 100% | 100% | 100%     |
| Procedures Completed | 100% | 100% | 100%     |
| Technical Success | 96.8% | 95.7% | 100%    |
Future Directions

- Build experience with Bolton Bridging Stent technology
- Implement Relay PRO platform
- Fatigue testing
- Clinical trials