What Does Endovascular Aortic Repair Do To Cardiac And Coronary Artery Function: Does The Position Of The Graft In The Aorta Make A Difference: Do We Need A Compliant Endograft?

> Rachel Clough, PhD FRCS Consultant Vascular Surgeon Director NIHR Cardiovascular HealthTech Research Centre King's College London

NIHR National Institute for Health and Care Research

Disclosures

Speaker name: Rachel Clough

I have the following potential conflicts of interest to report: ✓ Consultant: Cydar Medical

- ✓ Consultant: GE Healthcare
- ✓ Consultant: Medtronic Digital Surgery















































Conclusion

- We have developed a validated model of the circulation and assessed the effect of endovascular stent graft placement in realistic clinical scenarios
- Shown a reduction in compliance in the stented segment with associated changes in pressure and flow in adjacent aortic segments and the aortic branches
- No significant changes were seen in cardiac output and coronary artery blood flow following endovascular stent graft placement
- Further studies are needed to evaluate the effect in individuals with different baseline characteristics

