

Materials List for:

Use of Two Intracorporeal Ventricular Assist Devices As a Total Artificial Heart

Muath Bishawi¹, Jun-Neng Roan^{1,2}, Jordan Richards¹, Zachary Brown¹, Laura Blue¹, Mani A. Daneshmand¹, Jacob N. Schroder¹, Dawn E. Bowles³, Carmelo A. Milano¹

¹Division of Cardiothoracic Surgery, Department of Surgery, Duke University

²Division of Cardiovascular Surgery, Department of Surgery, National Cheng Kung University Hospital and College of Medicine

³Division of Surgical Sciences, Department of Surgery, Duke University

Correspondence to: Muath Bishawi at muath.bishawi@duke.edu

URL: <https://www.jove.com/video/55961>

DOI: [doi:10.3791/55961](https://doi.org/10.3791/55961)

Materials

Name	Company	Catalog Number	Comments
SPO2 and heart rates are to be monitored: Multiparameter	Meditech Equipment, Co., Ltd.	MD-908	hemodynamic monitor intraoperatively
Viscot Mini XL Surgical Markers	Amazon	B007P550WG	marking sternum before incision
60W High Power Electric Pet Cat Rabbits Horse Animal Hair Cutting Clipper	LILY International Business CO., LIMITED	ZP-293	Fur shaving
No. 10 scalpel blade	Swann-Mortan, England	301	Skin incision
Matzenbaum scissor	BD-V. Mueller, USA	CH2006-001	Vascular exploration
Scissors	Felco, USA	FELCO 200A-50, Felco Professional Bypass Lopper	For sternotomy
A self-retractor	BD-V. Mueller, USA	AU19270	SCHUKNECHT Self-Retaining Postauricular Retractor,
Sternal retractor	BD-V. Mueller, USA	CH6950-007	Cooley sternal retractor
Pressure transducer (Millar Mikro-Tip, 5Fr)	Millar, USA	MillarMikro-Tip, SPR-350S	Assessment for pulmonary artery or venous pressure
AD instruments (PowerLab)	AD instruments, USA	PowerLab 16/35	Pressure signal transduction
Umbilical tapes	Medline industries Inc., USA	U11	For isolation and snaring of superior or inferior vena cava
Vessel loops	Aspen Surgical, USA	3901, 3902 and 3904	Isolation of vessels
Silk sutures, 2-0	Ethicon US, LLC, USA	SA11G	For snare of superior or inferior vena cava
Ticron 2-0	Covidien, USA	Ticron™ suture	Vascular suture
Prolene, 7-0	Covidien, USA	Surgipro II	Vascular suture
Prolene, 6-0	Covidien, USA	Surgipro II	Vascular suture
Prolene, 4-0	Covidien, USA	Surgipro II	Vascular suture
Prolene, 3-0	Covidien, USA	Surgipro II	Vascular suture
Aortic cannula, 15-18 Fr	Medtronic, USA	Elongated-One-Piece-Arterial cannula 3D	Aortic cannula for setting of cardiopulmonary bypass
Venous cannula, 28Fr	Edwards Lifesciences	single stage	Venous cannula for setting of cardiopulmonary bypass