

Materials List for:

Complete and Partial Aortic Occlusion for the Treatment of Hemorrhagic Shock in Swine

Aaron M. Williams^{*1}, Umar F. Bhatti^{*1}, Isabel S. Dennahy¹, Kiril Chtraklin¹, Panpan Chang¹, Nathan J. Graham¹, Basil M. Baccouche¹, Shalini Roy¹, Mohammed Harajli¹, Jing Zhou¹, Vahagn C. Nikolian¹, Qiufang Deng¹, Yuzei Tian¹, Baoling Liu¹, Yongqing Li¹, Gregory L. Hays^{1,2}, Julia L. Hays^{1,2}, Hasan B. Alam¹

¹Department of Surgery, University of Michigan

²Hays Innovations

*These authors contributed equally

Correspondence to: Hasan B. Alam at alamh@med.umich.edu

URL: <https://www.jove.com/video/58284>

DOI: [doi:10.3791/58284](https://doi.org/10.3791/58284)

Materials

Name	Company	Catalog Number	Comments
Yorkshire-Landrace Swine	Michigan State University Veterinary Farm		
Anesthesia: Telazol	Pfizer		Dose: 2-8 mg/kg; IM
Anti-cholinergic: Atropine	Pfizer		Dose: 1mg, IM
Anesthesia: Isoflurane	Baxter		Dose: 1-5%, INH
Betadine	Humco		
Alcohol 70%	Humco	NDC 0395-4202-28	
Datex-Aespire Anesthesia Machine	GE Healthcare	7900	
Endotracheal tube	DEE Veterinary	20170518	Appropriate size for animal (6.5 or 7.0F)
Laryngoscope	Miller	85-0045	
Stylet	Hudson RCI	5-151--1	
Jelco 20G IV Catheter	Smiths Medical	4054	
Operating Room Monitor (Vital Signs Monitor)	SurgiVet Advisor	V9201	May require at least 2
Surgical Gowns	Kimberly Clark	90142	Use appropriate size for surgeon.
Sterile surgical gloves	Cardinal Health (Allegiance)	22537-570	Use appropriate size for surgeon.
Cautery Pencil	Medline	ESPB 2000	
Suction tubing	Medline	DYND50251	
Sunction tip: Yankauer	Medline	DYND50130	
Bovie Aaron 1250 Electrocautery Unit	Bovie Medical Co. FL	BOV-A1250U	
Salpel Blade - Size #10	Cardinal Health (Allegiance)	32295-010	
Scalpel Handle	Martin	10-295-11	
Debaquey Forceps	Roboz	RS-7562	
Weitlander Retractor	Roboz	RS-8612	
Mayo Scissors	Roboz	RS-76870SC	
Army-navy Retractor	Teleflex	164715	
Mixter Right-angle Forceps	Teleflex	175073	
5F (1.7 mm) 11 cm Insertion Sheath with 0.35" Guidewire	Boston Scientific	16035-05B	

8F (2.7 mm) 11 cm Insertion Sheath with 0.35" Guidewire	Boston Scientific	16035-08B	
20G angled Introducer Needle	Arrow	AK-09903-S	
14F (4.78 mm) 13 cm Insertion Sheath with 10F dilator	Cook Medical	G08024	
2-0 Silk 18" 45 cm	Ethicon	A185H	
3-0 Vicryl 36" 90 cm	Ethicon	J344H	
3-0 Nylon 18" 45 cm	Ethicon	663G	
4-0 Prolene 30" 75 cm	Ethicon	8831H	
20 ml syringe	Metronic/Covidien	8881512878	
3 mL syringe	Metronic/Covidien	1180300555	
6 mL syringe	Metronic/Covidien	1180600777	
1000ml 0.9% Saline	Baxter	2B1324X	
Foley Catheter (18F 30 cc)	Bard	0166V18S	
Urinary Drainage Bag	Bard	154002	
9F 10 cm Insertion Sheath	Arrow	AK-09903-S	
Swan-Ganz pulmonary artery catheter (8F)	Edwards Lifesciences co. CA	746F8	
Carotid Flow Probe System	Transonic, Ithaca, NY		3, 4, or 6 mm probes
SABOT catheter	Hayes Inc.		
CODA balloon catheter	Cook Medical	8379144	
Ultrasound, M-Turbo	SonoSite		
Amplatz Stiff Guidewire (0.035 inch, 260 cm)	Cook Medical	G03460	
Arterial Blood Gas Syringes	Smiths Medical	4041-2	
Arterial Blood Gas Analyzer	Nova Biochemical	ABL800	
Masterflex Pump	Cole Palmer	HV-77921-75	
Blood Collection Bags	Terumo	1BBD606A	
Macro IV drip set	Hospira	12672-28	
Pentobarbital	Pfizer		Dose: 100 mg/kg; IV
Eppendorf Tubes	Sorenson	11590	
50 cc conical tubes	Falcon	352097	
Formalin	Fisherbrand	431121	
Bair Hugger Normothermia System	Arizant Healthcare, Inc.		