

Materials List for:

Surgical Swine Model of Chronic Cardiac Ischemia Treated by Off-Pump Coronary Artery Bypass Graft Surgery

Laura Hocum Stone¹, Christin Wright¹, Erin Chappuis¹, Mia Messer¹, Herbert B. Ward¹, Edward O. McFalls², Rosemary F. Kelly¹

¹Department of Surgery, University of Minnesota

²Cardiology, Minneapolis VA Medical Center

Correspondence to: Laura Hocum Stone at stone337@umn.edu

URL: <https://www.jove.com/video/57229>

DOI: [doi:10.3791/57229](https://doi.org/10.3791/57229)

Materials

Name	Company	Catalog Number	Comments
Bair Hugger	3M	Model 505	Patient Warming system
SR Buprenorphine 10 mg/mL	Abbott Labs	NADA 141-434	Post operative Analgesic
Surgical Spring Clip	Applied Medical	A1801	Clamp end of LIMA after takedown
Arterial Line Kit	Arrow	ASK-04510-HF	Femoral catheter for blood pressure monitoring
1000mL 0.9% Sodium chloride	Baxter	2B1324X	IV replacement fluid
250 mL 0.9% saline	Baxter	UE1322D	Replacement IV Fluid
500mL 0.9% Sodium chloride	Baxter	2B1323Q	Drug delivery, Provide mist for Blower Mister
Flo-thru 1.0	Baxter	FT-12100	used to anastomos LIMA to L
Flo-thru 1.25	Baxter	FT-12125	
Flo-thru 1.5	Baxter	FT-12150	
Flo-thru 2.0	Baxter	FT-12200	
Cloroprep	Becton Dickenson	260815	Surgical skin prep
Meloxicam	Boehringer Ingelheim Vetmedica, Inc.	0010-6013-01	NSAID for analgesia
Hypafix	BSN Medical	4210	Secure wound dressing and IV catheters
IV Tubing for Blower Mister	Carefusion	42493E	Adapts to IV Fluids for Blower/Mister
Bovie Cautery hand piece	Covidien	E2516	Hemostasis
Chest Tube	Covidien	8888561043	Evacuates air from chest cavity
Monopolar Cautery	Covidien	Valleylab FT10	Hemostasis
Telpha pad	Covidien	2132	Sterile wound dressing
4-0 Tevdek II Strands	Deknatel	7-922	Suture to secure constrictor around LAD
Propofol	Diprivan	269-29	Induction agent
long blade for laryngoscope	DRE	12521	Allows for visualization of trachea for intubation
ECG Pads	DRE	1496	Monitor heart rhythm
laryngoscope	DRE	12515	
Anesthesia Machine + ventilator	DRE Drager- Fabius Tiro	DRE0603FT	Deliver Oxygen and inhalant to patient
5 Ethibond	Ethicon	MG46G	Suture
0 Vicryl	Ethicon	J208H	Suture
2-0 Vicryl	Ethicon	J317H	Suture

3-0 Vicryl	Ethicon	VCP824G	Suture
7-0 Prolene	Ethicon	M8702	Suture
Dermabond	Ethicon	DNX12	Skin adhesive
Ligaclips	Ethicon	MSC20	Surgical Staples for LIMA takedown
Sterile Saline 20 mL	Fisher Scientific	20T700220	Flush for IV catheters
Telazol 100 mg/mL	Fort Dodge	01L60030	Pre operative Sedative
Triple Antibiotic Ointment	Johnson & Johnson	23734	Topical over wound
6.0 mm ID endotracheal tube	Mallinckrodt	86049	Establish airway for Revasc,MRI and Termination
1" medical tape	Medline	MMM15271Z	Secure wound dressing and IV catheters
4.0 mm ID endotracheal tube	Medline	DYND43040	Establish airway for Hibernation
4.5 mm ID endotracheal tube	Medline	DYND43045	Establish airway for Hibernation
5.0 mm ID endotracheal tube	Medline	DYND43050	Establish airway for Hibernation
6.5 mm ID endotracheal tube	Medline	DYND43065	Establish airway for Revasc,MRI and Termination
7.0 mm ID endotracheal tube	Medline	DYND43070	Establish airway for Revasc,MRI and Termination
Bair Hugger Blanket - Large size, underbody	Medline	AUG55501	Patient Warming system
Basic pack	Medline	DYNJP1000	Sterile drapes and table cover
Bone Wax	Medline	ETHW31G	Hemostasis of cut bone
Suction tubing	Medline	DYND50223	
Suction Container	Medline	DYNDCL03000	
1 mL Syringe	Medtronic/Covidien	1188100777	Administer injectable agents
12 mL Syringe	Medtronic/Covidien	8881512878	Administer injectable agents
20 mL Syringe	Medtronic/Covidien	8881520657	Administer injectable agents
3 mL Syringe	Medtronic/Covidien	1180300555	Administer injectable agents
6 mL Syringe	Medtronic/Covidien	1180600777	Administer injectable agents
60 mL Syringe	Medtronic/Covidien	8881560125	Administer injectable agents
Blower Mister Kit	Medtronic/Covidien	22120	Clears surgical field for vessel anastomosis
Roncuronium	Mylan	67457-228-05	Neuromuscular blocking agent
# 40 clipper blade	Oster	078919-016-701	Remove hair from surgery sites
Hair Clipper	Oster	078566-011-002	Remove hair from surgery sites
Bupivacaine	Pfizer	00409-1161-01	Local Anesthetic
Cephazolin	Pfizer	00409-0805-01	Antibiotic
Heparin	Pfizer	0409-2720-03	anticoagulant
Lidocaine 2%	Pfizer	00409-4277-01	Local Anesthetic/ antiarrhythmic
Succinylcholine 20 mg/mL	Pfizer	00409-6629-02	Neuromuscular blocking agent
Anesthesia Monitor	Phillips Intellivue	MP70	Supports ventilation with inhalant
Artificial Tears	Rugby	0536-1086-91	Lubricate eyes to prevent corneal drying
Buprenorphine 0.3 mg/mL	Sigma Aldrich	B9275	Pre operative Analgesic for survival procedures
Isoflurane	Sigma Aldrich	CDS019936	General Anesthetic- Inhalant
36" Pressure monitoring tubing	Smith's Medical	MX563	Connect art. Line to transducer
48" Pressure monitoring tubing	Smith's Medical	MX564	Connect art. Line to transducer

Jelco 18 ga IV catheter	Smiths medical	4054	IV access in Revasc, MRI and Term
Jelco 20 ga IV catheter	Smiths medical	4059	IV access in the MRI
Jelco 22 ga IV catheter	Smiths medical	4050	IV access in Hibernation Procedure
OPVAC Synergy II	Terumo Cardiovascular System	401-230	Heart positioner and Stabilizer
Sternal Saw/ Necropsy Saw	Thermo Fisher	812822	Used to open chest cavity
Delrin Constrictor	U of MN	Custom made	Creates stenosis of LAD
Oxygen Tank E cylinder	various	various	Used for Blower Mister if anesthesia machine doesn't have auxiliary flow meter
Pressure Transducer	various	Must adapt to anesthesia monitor	Monitor direct arterial pressures
Xylazine 100 mg/mL	Vedco	468RX	Pre operative Sedative/ analgesic