

Materials List for:

A Rat Model of Ventricular Fibrillation and Resuscitation by Conventional Closed-chest Technique

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URL: <https://www.jove.com/video/52413>

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Materials

Name	Company	Catalog Number	Comments
Sodium pentobarbital	Sigma Aldrich	P3761	http://www.sigmaaldrich.com/catalog/product/sigma/p3761?lang=en&region=US
Rectal thermistor	BIOPAC Systems, INC	TSD202A	http://www.biopac.com/fast-response-thermistor
Needle electrode bipolar concentric 25 mm TP	BIOPAC Systems, INC	EL451	http://www.biopac.com/needle-electrode-concentric-25mm
PE25 polyethylene tubing	Solomon Scientific	BPE-T25	http://www.solsci.com/products/polyethylene-pe-tubing
26GA female luer stub adapter	Access Technologies	LSA-26	http://www.norfolkaccess.com/needles.html
Stopcocks with luer connections; 3-way; male lock, non-sterile	Cole-Parmer	UX-30600-02	http://www.coleparmer.com/Product/Large_bore_3_way_male_lock_stopcocks_10_pack_Non_sterile/EW-30600-23
TruWave disposable pressure transducer	Edwards Lifesciences	PX600I	http://www.edwards.com/products/pressuremonitoring/Pages/truwavemodels.aspx?truwave=1
Type-T thermocouple	Physitemp Instruments	IT-18	http://www.physitemp.com/products/probesandwire/flexprobes.html
Central venous pediatric catheter	Cook Medical	C-PUM-301J	https://www.cookmedical.com/product/-/catalog/display?ds=cc_pum1lp_webds
Abbocath-T subclavian I.V. catheter (14 g x 5 1/2")	Hospira	453527	http://www.hospira.com/products_and_services/iv_sets/045350427
Novamatrix Medical Systems, Infrared CO2 monitor	Soma Technology, Inc.	7100 CO2SMO	http://www.somatechnology.com/MedicalProducts/novamatrix_respironics_co2smo_7100.asp
Harvard Model 683 small animal ventilator	Harvard Apparatus	555282	http://www.harvardapparatus.com/webapp/wcs/stores/servlet/haiku2_10001_11051_44453_-1_HAI_ProductDetail_N_37322_37323
Double-flexible tipped wire guides	Cook Medical	C-DOC-15-40-0-2	https://www.cookmedical.com/product/-/catalog/display?ds=cc_doc_webds
High accuracy AC LVDT displacement sensor	Omega Engineering	LD320-25	http://www.omega.com/pptst/LD320.html
HeartStart XL defibrillator/monitor	Phillips Medical Systems	M4735A	http://www.healthcare.philips.com/main/products/resuscitation/products/xl/

Graefe micro dissection forceps 4 inches	Roboz	RS-5135	http://shopping.roboz.com/Surgical-Instrument-Online-Shopping?search=RS-5135
Graefe micro dissection forceps 4 inches with teeth	Roboz	RS-5157	http://shopping.roboz.com/Surgical-Instrument-Online-Shopping?search=RS-5157
Extra fine micro dissection scissors 4 inches	Roboz	RS-5882	http://shopping.roboz.com/micro-scissors-micro-forceps-groups/micro-dissecting-scissors/Micro-Dissecting-Scissors-4-Straight-Sharp-Sharp
Heiss tissue retractor	Fine Science Tools	17011-10	http://www.finescience.com/Special-Pages/Products.aspx?ProductId=321&CategoryId=134&lang=en-US
Crile curve tip hemostats	Fine Science Tools	13005-14	http://www.finescience.com/Special-Pages/Products.aspx?ProductId=372
Visistat skin stapler	Teleflex Incorporated	528135	http://www.teleflexsurgicalcatalog.com/weck/products/9936
Braided silk suture, 3-0	Harvard Apparatus	517706	http://www.harvardapparatus.com/webapp/wcs/stores/servlet/haiku2_10001_11051_43051_-1_HAI_ProductDetail_N_37916_37936
Betadine solution	Butler Schein	3660	https://www.henryscheinvet.com/
Sterile saline, 250 ml bags	Fisher	50-700-069	http://www.fishersci.com/ecommerce/servlet/itemdetail?catnum=50700069&storeId=10652
Heparin sodium injection, USP	Fresenius Kabi	504201	http://fkusa-products-catalog.com/files/assets/basic-html/page25.html
Loxicom (meloxicam)	Butler Schein	045-321	https://www.henryscheinvet.com/
Thermodilution cardiac output computer for small animals	N/A	N/A	Custom-developed at the Resuscitation Institute using National Instruments hardware and LabVIEW software
Analog-to-digital data acquisition and analysis system	N/A	N/A	Custom-developed at the Resuscitation Institute using National Instruments hardware and LabVIEW software
Pneumatically-driven and electronically controlled piston device for chest compression in small animals	N/A	N/A	Custom-developed at the Weil Institute of Critical Care Medicine
60 Hz alternating current generator	N/A	N/A	Custom-developed at the Weil Institute of Critical Care Medicine