

Materials List for:

Benefits of Cardiac Resynchronization Therapy in an Asynchronous Heart Failure Model Induced by Left Bundle Branch Ablation and Rapid Pacing

Jingfeng Wang^{*1}, Zhenning Nie^{*1}, Haiyan Chen^{*2}, Xianhong Shu², Zhaohua Yang³, Ruiming Yao¹, Yangang Su¹, Junbo Ge¹

¹Department of Cardiology, Shanghai Institute of Cardiovascular Diseases, Zhongshan Hospital, Fudan University

²Department of Echocardiography, Shanghai Institute of Medical imaging, Shanghai Institute of Cardiovascular Diseases, Zhongshan Hospital, Fudan University

³Department of Cardiac surgery, Shanghai Institute of Cardiovascular Diseases, Zhongshan Hospital, Fudan University

*These authors contributed equally

Correspondence to: Yangang Su at su.yangang@zs-hospital.sh.cn

URL: <https://www.jove.com/video/56439>

DOI: [doi:10.3791/56439](https://doi.org/10.3791/56439)

Materials

Name	Company	Catalog Number	Comments
Closed iv catheter system (0.9mm×25mm)	Becton Dickinson Medical	5264442	Used as venous retention needle
Sodium pentobarbital	Sigma-Aldrich Company	130205	For anesthesia
Pet clipper	Wuhan Shernbao pet supplies Co., Ltd.	PGC-660	For hair shaving
Electrocardiograph	Shanghai photoelectric medical electronic instrument Co., Ltd.	ECG-6511	For electrocardiogram recording
Echocardiograph	GE-Vingmed Ultrasound Company	VIVID E9	For echocardiographic assessment
EchoPAC software	GE healthcare	Version201	Offline analysis
Laryngoscope	Shanghai Medical Instrument Co., Ltd		Orotracheal intubation
Endotracheal tube	SIMS Portex Inc, UK	274093	Orotracheal intubation
Volume cycled respirator	Newport Corporation	C100	Artificial ventilation
HeartStart XL Defibrillator/Monitor	Philips Medical Systems	M4735A	Electrocardiogram monitor during operation
Benzalkonium Bromide Tincture	Shanghai Yunjia Pharmaceutical Co., Ltd.	H31022694	Used for skin disinfection
Rib retractor	Shanghai Medical Instrument Co., Ltd.		For thoracotomy
4-0 suture	Shanghai Pudong Jinhuan Medical Products Co., LTD.	24L1005	Suture of LV epicardial electrode
2-0/T suture	Shanghai Pudong Jinhuan Medical Products Co., LTD.	11M0505	Suture of pacing leads, fascia, vessels, etc.
0-suture	Shanghai Pudong Jinhuan Medical Products Co., LTD.	11P0501	Skin suture
penicillin powder	North China Pharmaceutical Co., Ltd.	F6034105	
DSA X-ray machine	Philips	Allura Xper FD10	X-ray for fluoroscopy
LV pacing electrode	Medtronic, Inc.	LBT 4965	
RV pacing electrode	St. Jude Medical	Tendril 1888	
RA pacing electrode	St. Jude Medical	IsoFlex 1642T	
Pacemaker pulse generator	Medtronic, Inc.	Enpulse E2DR01	For rapid RV pacing
CRT pulse generator	St. Jude Medical	Anthem PM 3212	For CRT performance
Multi-channel electrophysiologic recorder	GE Medical Systems	2003232-004	For surface and intracardiac electrogram

Catheter input module	GE Medical Systems	301-00202-08	Multiple pole switches for stimulation or recording
Radiofrequency generator	Johnson-Johnson Company	ST-4460	For RF current delivery
Cordless return electrode	Covidien	E7509	For current circuit formation
Cordis 6-Fr sheath	Johnson-Johnson Company	504-606X	Access for mapping catheter
Cordis 7-Fr sheath	Johnson-Johnson Company	504-607X	Access for mapping and ablation catheter
6-Fr quadripolar catheter	Johnson-Johnson Company	F6QRA005RT	Mapping catheter
7-Fr 4mm-tip steerable ablation catheter	St. Jude Medical	402823	Mapping and ablation catheter
Prucka Cardio-Lab®2000	GE Medical Systems	6.9.00.000	Software package for electrogram recording
Heparin	Haitong Pharmaceutical Co., Ltd	160505	Anticoagulant during catheter ablation
Digital image analysis system	Leica Microsystems	Qwin V3	For histologic analysis