

Noninvasive and Invasive Renal Hypoxia Monitoring in a Porcine Model of Hemorrhagic Shock

Lars R. Lofgren¹, Guillaume L. Hoareau^{2,3}, Kai Kuck^{1,4}, Natalie A. Silverton^{4,5}

¹Department of Biomedical Engineering, University of Utah ²Department of Emergency Medicine, University of Utah ³Nora Eccles Harrison Cardiovascular Research and Training Institute, University of Utah ⁴Department of Anesthesiology, University of Utah ⁵Geriatric Research, Education, and Clinical Centre, VAMC

Corresponding Author

Lars R. Lofgren
lars.lofgren@utah.edu

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Materials

Name	Company	Catalog Number	Comments
1/8" PVC tubing	Qosina	SKU: T4307	Part of noninvasive PuO2 monitor
3/16" PVC tubing	Qosina	SKU: T4310	Part of noninvasive PuO2 monitor
3/8" TPE tubing	Qosina	SKU: T2204	Part of noninvasive PuO2 monitor
3/32" (1), 1/8" (1), 5/32" (1) drill bit	Dewalt	N/A	For building noninvasive PuO2 monitor
Biocompatible Glue	Masterbond	EP30MED	Part of noninvasive PuO2 monitor
Bladder PuO ₂ sensor	Presens	DP-PSt3	Oxygen dipping probe
Bladder oxygen measurement device	Presens	Fibox 4	Stand-alone fiber optic oxygen meter
Chlorhexidine 4% scrub	Vetone	N/A	For scrubbing insertion or puncture sites
Conical connector with female luer lock	Qosina	SKU: 51500	Part of noninvasive PuO2 monitor
Cuffed endotracheal tube	Vetone	600508	For sedating the subject and providing respiratory support
Euthanasia solution (pentobarbital sodium pheyntoin sodium)	Vetone	11168	For euthanasia after completion of experiment
General purpose temperature probe, 400 series thermistor	Novamed	10-1610-040	Part of noninvasive PuO2 monitor
HotDog veterinary warming system	HotDog	V106	For controlling subject temperature during experiment
Invasive tissue oxygen measurement device	Optronix	N/A	OxyLite™ oxygen monitors
Invasive tissue oxygen sensor	Optronix	NX-BF/OT/E	Oxygen/Temperature bare-fibre sensor
Isoflurane	Vetone	501017	To maintain sedation throughout the experiment
Isotonic crystalloid solution	HenrySchein	1537930 or 1534612	Used during resuscitation in the critical care period
Liquid flow sensor	Sensirion	LD20-2600B	Part of noninvasive PuO2 monitor
Male luer lock to barb connector	Qosina	SKU: 11549	Part of noninvasive PuO2 monitor

Male to male luer connector	Qosina	SKU: 20024	Part of noninvasive PuO2 monitor
Norepinephrine	HenrySchein	AIN00610	Infusion during resuscitation
Noninvasive oxygen measurement device	Presens	EOM-O2-mini	Electro optical module transmitter for contactless oxygen measurements
Non-vented male luer lock cap	Qosina	SKU: 65418	Part of noninvasive PuO2 monitor
O ₂ sensor stick	Presens	SST-PSf3-YOP	Part of noninvasive PuO2 monitor
PowerLab data acquisition platform	AD Instruments	N/A	For data collection
REBOA catheter	Certus Critical Care	N/A	Used in experimental protocol
Super Sheath arterial catheters (5 Fr, 7 Fr, 9 Fr)	Boston Scientific	C1894	for intravascular access
Suture	Ethicon	C013D	For securing catheter to skin and closing incisions
T connector, all female luer locks	Qosina	SKU: 88214	Part of noninvasive PuO2 monitor