

Materials List for

A Piglet Perinatal Asphyxia Model to Study Cardiac Injury and Hemodynamics after Cardiac Arrest, Resuscitation, and the Return of Spontaneous Circulation

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Materials

Name	Company	Catalog Number	Comments
Acid-base machine (ABL 800 Flex)	Radiometer Medical ApS, Brønshøj, Denmark	989-963	
AcqKnowledge 4.0 software for PC	Biopac Systems Inc., Goleta, CA, USA	ACK100W	
Adhesive aperture drape	OneMed Group Oy, Helsinki, Finland	1505-01	
Adrenaline (1 mg/mL)	Takeda AS, Asker, Norway	Vnr 00 58 50	Dilute 1:10 in normal saline to 0.1 mg/mL
Arterial cannula 20 G 1,10 mm x 45 mm	Becton Dickinson Infusion Therapy, Helsingborg, Sweden	682245	
Arterial forceps	Any		
Asphyxia gas, 8% oxygen in nitrogen	Linde Gas AS (AGA AS), Oslo, Norway	110093	
Benelyte, 500 mL	Fresenius Kabi, Norge AS, Halden, Norway	79011	
Biopac ECG and invasive blood pressure modules, Model MP 150	Biopac Systems Inc., Goleta, CA 93117, USA	ECG100C, MP150WSW	
Box of cardboard for sample storage	Syhehuspartner HF, Oslo, Norway	2000076	
Cannula, 23G x 1 1/4" - Nr. 14	Beckton Dickinson S.A., Fraga, Spain	300700	
Cannula, 18G x 2"	Beckton Dickinson S.A., Fraga, Spain	301900	

Cannula, 21G x 1 1/2"- Nr.2	Beckton Dickinson S.A., Fraga, Spain	304432	
Centrifuge (Megafuge 1.0R)	Heraeus instruments, Kendro Laboratory Products GmbH, Hanau, Germany	75003060	
Chlorhexidin colored 5 mg/mL	Fresenius Kabi Norge AS, Halden, Norway	00 73 24	
Combi-Stopper	B. Braun Melsungen AG, Melsungen, Germany	4495101	
CRF form	Self-made		
Desmarres eyelid retractor 13 cm x 18 mm	Any		
Digital Thermometer ama-digit ad 15 th	Amarell, Kreuzwertheim, Germany	9243101	
ECG electrodes, Skintact	Leonhard Lang, Innsbruck, Austria	FS-TC1 /10	
Electric heating mattress	Any		
Extension set	Codan Medizinische Geräte GmbH & Co KG, Lensahn, Germany	71.4021	
Fentanyl (50 µg/mL)	Hameln, Saksa, Germany	00 70 16	
Fine wood chips	Any		
Finnpipette F1, 100-1000 µL	VWR, PA, USA	613-5550	
Fully equipped surgical room			
Gas hose	Any		
Gauze swabs 5 cm x 5 cm	Bastos Viegas,.a., Penafiel, Portugal		
Heparin, heparinnatium 5000 IE/a.e./ mL	LEO Pharma AS, Ballerup, Denmark	46 43 27	
HighClean Nonwoven Swabs, 10 cm x 10 cm	Selefa, OneMed Group Ay, Helsinki, Finland	223003	
ICON	Osyka Medical GmbH, Berlin, Germany		Portable non-invasive cardiometer
ICON electrodes/ECG electrodes, Ambu WhiteSensor WSP25	Ambu A/S, Ballerup, Denmark	WsP25-00-S/50	
Infusomat Space medical pump	B. Braun Melsungen AG, Melsungen, Germany	8713050	
Invasive blood pressure monitoring system	Codan pvb Critical Care GmbH, Forstinning, Germany	74.6604	
Laryngoscope SunMed Greenlinen blade No 2	KaWe Medical, Asperg, Germany		
Leoni plus mechanical ventilator	Löwenstein Medical SE & Co. KG, Bad Ems, Germany		
Liquid nitrogen 230 L	Linde Gas AS (AGA AS), Oslo, Norway	102730	
Microcentrifuge tubes, 1.5 ml	Forsyningssenteret, Trondheim, Norway	72.690.001	
Microcuff endotracheal tube, size 3.5	Avanos, GA, USA	35162	
Needle holder	Any		
Neoflon, peripheral venous catheter, 24 G 0.7 mm x 19 mm	Becton Dickinson Infusion Therapy AB, Helsingborg, Sweden	391350	
Neonatal piglets 12-36 h of age			As young as possible
NIRS electrodes, FORE-SIGHT Single Non-Adhesive Sensor Kit Small	Cas Medical systems Inc., Branford Connecticut, USA	01-07-2000	
NIRS machine, FORE-SIGHT Universal, Cerebral Oximeter MC-202, Benchtop regional oximeter FORE-SIGHT	Cas Medical systems Inc., Branford Connecticut, USA	01-06-2020	May also use INVOS, Covidien

Normal saline, NaCl 9 mg/mL, 500 mL	Fresenius Kabi Norge AS, Halden, Norway	Vare nr. 141387	Unmixed
Normal saline, NaCl 9 mg/mL, 500 mL	Fresenius Kabi Norge AS, Halden, Norway	141388	For IV blood pressure monitoring, add heparin (0.2 ml heparin 5000 IE/ a.e./mL in 500 mL of 0.9% NaCl)
Nunc Cryogenic Tubes 1.8 mL	VWR, PA, USA	479-6847	
Original Perfusor Line, I Standard PE	B. Braun Melsungen AG, Melsungen, Germany	8723060	
Oxygen saturation monitor, MasimoSET, Rad 5	Masimo, Neuchâtel, Switzerland	9196	
Oxygen saturation monitor, OxiMax N-65	Covidien LP (formerly Nellcor Puritan Bennett Inc.), Boulder, CO, USA	N65-PDN1	
Pentobarbital (100 mg/mL)	Norges Apotekerforening, Oslo, Norway	Pnr 811602	
Pipette tips	VWR, PA, USA	732-2383	
Plastic container with holes	Any		Has to allow for circulation of air
Printer labels B-492, hvit, 25 mm x 9 mm, 3000 labels	VWR, PA, USA	BRDY805911	For nunc tubes
Razor, single use disposable	Any		
Rubber gloves	Any		
Rubber hot water bottles	Any		
Self-inflating silicone pediatric bag 500 ml	Laerdal Medical, Stavanger, Norway	86005000	
Smallbore T-Port Extension Set	B. Braun Melsungen AG, Melsungen, Germany	471954	
Sterile surgical gloves latex, Sempermed supreme	Semperit Technische Produkte Ges.m.b.H., Vienna, Austria	size 7: 822751701	Different sizes
Stethoscope	Any		
Stopcocks, 3-way, Discofix	B. Braun Melsungen AG, Melsungen, Germany	16494C	
Stylet size 3.5	Any		
SunMed Greenlinen laryngoscope blade No 2	KaWe Medical, Asperg, Germany		
Surgical blade, size 15	Swann Morton LTD, Sheffield England	205	
Surgical forceps	Any		
Surgical scissors	Any		
Surgical sponges, sterile	Mölnlycke Health Care, Göteborg, Sweden	C0130-3025	
Surgical swabs	Mölnlycke Health Care, Göteborg, Sweden	159860-00	
Surgical tape Micropore 2.5 cm x 9.1 m	3M Norge AS, Lillestrøm, Norway	153.5	
Suture, Monsoft Monofilament Nylon 3-0	Covidien LP (formerly Nellcor Puritan Bennett Inc.), Boulder, CO, USA	SN653	
Suture, Polysorb Braided Absorbable	Covidien LP (formerly Nellcor Puritan Bennett Inc.), Boulder, CO, USA	GL884	
Syringe 0.01-1 mL Omnifix F Luer Solo	B. Braun Melsungen AG, Melsungen, Germany	9161406V	Used for acid base blood sampling. Flush with heparin
Syringe 10 mL Omnifix Luer Solo	B. Braun Melsungen AG, Melsungen, Germany	4616103V	
Syringe 2.5 mL BD Plastipak	Beckton Dickinson S.A., Madrid, Spain	300185	Used for blood sampling. Flush with heparinized NaCl
Syringe 20 mL Omnifix Luer Loc Solo	B. Braun Melsungen AG, Melsungen, Germany	4617207V	

Syringe 20 mL Omnifix Luer Solo	B. Braun Melsungen AG, Melsungen, Germany	4616200V	
Syringe 5 mL Omnifix Luer Solo	B. Braun Melsungen AG, Melsungen, Germany	4616057V	
Syringe 50 mL Omnifix Luer Lock Solo	B. Braun Melsungen AG, Melsungen, Germany	4617509F	
Syringe 50 mL Omnifix Luer Solo	B. Braun Melsungen AG, Melsungen, Germany	4616502F	
Table drape sheet, asap drytop	Asap Norway AS, Skien, Norway	83010705	
Tape Tensoplast 2.5 cm x 4.5 m	BSN Medical, Essity Medical Solutions, Charlotte, NC, USA	66005305, 72067-00	
Timer	Any		
Towels	Any		
Transparent IV-fixation	Medioplast AB, Malmö, Sweden	60902106	
Ultrasound gel	Optimu Medical Solutions Ltd. Leeds, UK	1157	
Ultrasound machine, LOGIQ e	GE Healthcare, GE Medical Systems, WI, USA	5417728-100	
Utility drape, sterile	OneMed Group Oy, Helsinki, Finland	1415-01	
Vacurette K3E K3EEDTA 2mL	Greiner Bio-One GmbH, Kremsmünster, Austria	454222	
Venflon Pro Safety 22 G 0.9 mm x 25 mm	Becton Dickinson Infusion Therapy, Helsingborg, Sweden	393222	
Ventilation mask made to fit tightly around a piglet snout	Any		Typically cone shaped
Weight	Any		