

Small Animal Surgical Supplies

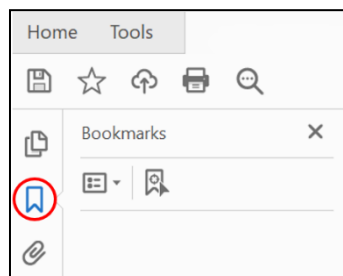
This document contains surgical supplies relevant for use with small animal DSI telemetry. A listing of supplies by device type is provided as well as vendor and part number information. Many of these supplies can be found from other vendors. Additionally, some products are only available in North America and the listing below may be used as a reference to find a suitable alternative in your market. Please note vendor part numbers change on occasion. If you encounter a discrepancy, please contact the vendor for the updated information and please contact DSI to have the discrepancy corrected.

Any supplies that come non-sterile **MUST BE** sterilized prior to using them for any survival surgery.

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Capital Equipment

Item Name	Vendor	Part Number	Notes
<input type="checkbox"/> Anesthesia machine	Surgivet www.surgivet.com	V703001	<ul style="list-style-type: none"> • 6 station machine • Various sizes available
<input type="checkbox"/> Anesthesia system - Tabletop	Harvard Apparatus www.harvardapparatus.com	75-0232	<ul style="list-style-type: none"> • Contains all supplies necessary for an active scavenging system (with MiniVac) • Can add/subtract items as needed
		With induction box: 75-0233	
<input type="checkbox"/> Head lamp	Roboz Surgical Instrument Company www.robоз.com	ML-605	<ul style="list-style-type: none"> • Necessary to illuminate surgical field for intra-thoracic procedures
<input type="checkbox"/> Heating pad - Homeothermic monitoring system	Harvard Apparatus www.harvardapparatus.com	55-7020	<ul style="list-style-type: none"> • Keep animal warm during surgery • Ideal for smaller workspaces • Fits into a standard stereotaxic frame
<input type="checkbox"/> Heating pad - Water circulating	Braintree Scientific, Inc. www.braintreesci.com	TP-D 26E	<ul style="list-style-type: none"> • Various sizes available • T/pump purchased separately (part number TP-700)
<input type="checkbox"/> Hot bead sterilizer	World Precision Instruments www.wpiinc.com	150g: ST5191	<ul style="list-style-type: none"> • Adjustable temperature control up to 300-degrees Celsius • Tabletop sterilizer for instruments
		300g: ST5193	
<input type="checkbox"/> Instrument tray	Pearson Dental www.pearsondental.com	P20-0349	<ul style="list-style-type: none"> • Use for cold sterilization of instruments
<input type="checkbox"/> MiniVac Gas Evacuation Unit	Harvard Apparatus www.harvardapparatus.com	73-4910	<ul style="list-style-type: none"> • Actively and efficiently scavenges excess anesthetic gases • Need to purchase adapters for scavenger canisters separately
<input type="checkbox"/> Surgical bench	Production Automatic Corporation www.gotopac.com	Customizable	
<input type="checkbox"/> Surgical chair	Production Automatic Corporation www.gotopac.com	ERGO 2F 200 TILT FR	<ul style="list-style-type: none"> • Built with urethane casters
<input type="checkbox"/> Surgical loupes, 5.0x	Carl Zeiss www.zeiss.com	Various	<ul style="list-style-type: none"> • Necessary to visualize the surgical field for intra-thoracic procedures

Item Name	Vendor	Part Number	Notes
<input type="checkbox"/> Surgical microscope	North Central Instruments www.ncimicro.com	M60	<ul style="list-style-type: none"> Contact a sales representative to discuss the most appropriate configuration
	World Precision Instruments www.wpiinc.com	PZMTIV-BS	<ul style="list-style-type: none"> Cheaper alternative to Leica M60
<input type="checkbox"/> Ultrasonic cleaner	Cole Parmer www.coleparmer.com	EW-08895-43	<ul style="list-style-type: none"> Basket not included Requires cleaning solution
<input type="checkbox"/> Ventilator (VentElite)	Harvard Apparatus www.harvardapparatus.com	55-7040	<ul style="list-style-type: none"> Required for any open chest procedure Additional accessories to ventilate the animal (e.g. endotracheal tubes or non-intubating nosecone) must be purchased separately

Non-Capital Equipment

Item Name	Vendor	Part Number	Notes
<input type="checkbox"/> ECG 3 needle electrodes, 29-gauge	Harvard Apparatus www.harvardapparatus.com	73-5019	<ul style="list-style-type: none"> To monitor and record ECG real-time 2mm pins with 30mm multicolored wires Compatible with Harvard Apparatus' Physiological Monitoring System, sold separately
<input type="checkbox"/> Instrument cleaning brush	Covetrus northamerica.covetrus.com	Nylon: 009908	<ul style="list-style-type: none"> Use to maintain the integrity of the instrument
		Stainless steel: 071186	
<input type="checkbox"/> Magnet	DSI www.datasci.com	370-0034-001	<ul style="list-style-type: none"> Turn device on/off
<input type="checkbox"/> Signal Detector	DSI www.datasci.com	370-0140-001	<ul style="list-style-type: none"> Detects F0 (455 kHz), F1 (8 MHz), and F2 (18 MHz) devices
<input type="checkbox"/> Surgical clippers	Covetrus www.northamerica.covetrus.com	Mice: CLP-41590 P	
	Braintree Scientific, Inc. www.braintreesci.com	Rats and larger: 032487	

Item Name	Vendor	Part Number	Notes
<input type="checkbox"/> Surgical clipper blades	Covetrus www.northamerica.covetrus.com	#30: 022574	<ul style="list-style-type: none"> • Replacement blades for surgical clippers • #30 is suitable for mice • #40 is suitable for rats and larger species
		#40: 025107	
<input type="checkbox"/> MiniVac - Scavenger canister	Harvard Apparatus www.harvardapparatus.com	Fluosorber (large): 34-0415	<ul style="list-style-type: none"> • Can be used for either passive or active scavenging (with MiniVac) • Able to scavenge up to 200g of anesthetic agents, sold as a pack of 6
		F/Air (small): 72-1294	<ul style="list-style-type: none"> • Can be used for either passive or active scavenging (with MiniVac) • Able to scavenge up to 50g of anesthetic agents, sold as a pack of 8
<input type="checkbox"/> MiniVac - Scavenger canister adapter	Harvard Apparatus www.harvardapparatus.com	Large: 73-4911	<ul style="list-style-type: none"> • Allows for charcoal scavenger canisters to be attached to MiniVac system • Large is suitable for Fluosorber brand canisters • Small is suitable for F/Air brand canisters
		Small: 73-4915	
<input type="checkbox"/> Stereotaxic apparatus	Harvard Apparatus www.harvardapparatus.com	Single: 75-1826	<ul style="list-style-type: none"> • Supports and steadies the head
		Dual: 75-1827	
<input type="checkbox"/> Non-intubating nosecone	Vet Equip www.vetequip.com	921465	<ul style="list-style-type: none"> • Non-intubating option for open chest procedures • Contains orange foam nose cones, Y connector, and rubber bands • May not work with all types of ventilators - check with vendor before purchase

Disposable Supplies

For use in OR/Surgery

- Surgery-specific items and recommended quantities are listed further based on surgery and device type.
- Anesthetic, analgesic, and antibiotic use may differ based on your institution's policies. Please refer to DSI's [Anesthesia Reference Manual](#) in the [DSI Support Center](#) for more information.
- Other disposable supplies can include but are not limited to sterile surgical gloves, masks, caps, shoe covers and gowns. Please refer to your facility's policies for required items for aseptic surgery.

Item Name	Vendor	Part Number	Notes
<input type="checkbox"/> Depilatory cream (i.e. Nair™)	Various	Various	<ul style="list-style-type: none"> • Removes mouse hair from surgical field • Do not leave on skin for an extensive time - 30 seconds is sufficient in most cases
<input type="checkbox"/> Isoflurane inhalant anesthesia	Covetrus www.northamerica.covetrus.com	029405	
<input type="checkbox"/> GLUture®	Covetrus www.northamerica.covetrus.com	034418	<ul style="list-style-type: none"> • Aids with incisional closure • Do not use to secure pressure catheters
<input type="checkbox"/> Lidocaine (2%)	Covetrus www.northamerica.covetrus.com	002468	<ul style="list-style-type: none"> • Dilates vessels • Do not use on carotid artery
<input type="checkbox"/> Ophthalmic ointment	Covetrus www.northamerica.covetrus.com	062143	<ul style="list-style-type: none"> • Keeps eyes lubricated during surgery • Multiple options available
<input type="checkbox"/> Regel syringe	DSI www.datasci.com	276-0038-001	<ul style="list-style-type: none"> • Required for all pressure devices
<input type="checkbox"/> Silicone adhesive (KWIK-SIL)	World Precision Instruments www.wpiinc.com	KWIK-SIL	<ul style="list-style-type: none"> • Insulates nerve and electrode
<input type="checkbox"/> Silver sulfadiazine cream, 1%	Covetrus www.northamerica.covetrus.com	065788	<ul style="list-style-type: none"> • Use to treat irritated skin
<input type="checkbox"/> Wound clips (Autoclips)	Fisher Scientific www.fishersci.com	18045	<ul style="list-style-type: none"> • Can use wound clips and stapler OR suture for skin closure depending on IACUC approval • Non-sterile, must be sterilized before use in surgery • Not recommended for use on the ventral neck or top of the head

Cleaning Materials and Sterile Solutions

Item Name	Vendor	Part Number	Notes
<input type="checkbox"/> Chlorhexidine scrub (Nolvasan scrub)	Covetrus www.northamerica.covetrus.com	004135	<ul style="list-style-type: none"> • Proven to be more effective than betadine • Do not use on implants
<input type="checkbox"/> Chlorhexidine solution 2%	Covetrus www.northamerica.covetrus.com	055481	<ul style="list-style-type: none"> • Spray a small amount on animal's skin after cleaning and before starting surgery • Do not use on implants
<input type="checkbox"/> Instrument lube spray	Covetrus www.northamerica.covetrus.com	004911	<ul style="list-style-type: none"> • Keeps instruments lubricated and prevents rusting
<input type="checkbox"/> Isopropyl alcohol, 70%	Covetrus www.northamerica.covetrus.com	011842	<ul style="list-style-type: none"> • Do not use on implants
<input type="checkbox"/> Kool Lube clipper spray	Covetrus www.northamerica.covetrus.com	003458	<ul style="list-style-type: none"> • Use frequently to maintain integrity of the blade • Helps prevent overheating
<input type="checkbox"/> Maxizyme tablets	Covetrus www.northamerica.covetrus.com	035890	<ul style="list-style-type: none"> • Use with ultrasonic cleaner • Do not use on implants
<input type="checkbox"/> Rescue AHP TB cleaner	Covetrus www.northamerica.covetrus.com	Wipes: 058517 Liquid: 058281	<ul style="list-style-type: none"> • Safe to use on plexiglass and most hard surfaces
<input type="checkbox"/> Revital-Ox RESERT High Level Disinfectant	Steris www.steris.com	4455AW	<ul style="list-style-type: none"> • Use only if approved by your facility • Reusable for up to 21 days • Monitor the concentration with testing strips (part number PCC053)
<input type="checkbox"/> Sterile saline (1L bottle)	Covetrus www.northamerica.covetrus.com	009863	
<input type="checkbox"/> Sterile water (1L bottle)	Covetrus www.northamerica.covetrus.com	065885	<ul style="list-style-type: none"> • Use to rinse surgical instruments after cold sterilization • Do not use as an irrigation solution

Suture Recommendations

There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Device Returns and Exchanges

All products returned to DSI must be cleaned and decontaminated. DSI only recommends cold sterilization. Please see DSI's [Cleaning and Re-sterilization of DSI Implants](#) technical note on the [Support Center](#) for more information

Item Name	Vendor	Part Number	Notes
<input type="checkbox"/> Enzymatic detergent	Fisher Scientific www.fishersci.com	Tergazyme: 16-000-115	<ul style="list-style-type: none"> • Cleans devices - does not sterilize • Removes blood, serum proteins, tissue debris • Haemol-Sol NS can be used in place of Tergazyme, do not need to use both
		Haemol-Sol NS: 23721050	
<input type="checkbox"/> Cold sterilant	Medivators https://www.medivators.com/ (Type "Actril" in search box)	Actril: 78337-000	<ul style="list-style-type: none"> • Sterilizes devices • Devices must be clean of all gross debris prior to use • Spor-Klenz can be used in placed of Actril, do not need to use both
	Steris www.shop.steris.com	Spor-Klenz RTU: 652501	

Mouse BP/ECG (HD-X10, HD-X11)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Vessel cannulation	1	1	Fine Science Tools www.finescience.com	00608-11	<ul style="list-style-type: none"> • Use for handling pressure catheters
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Hemostats - Crile, straight	1	N/A	Fine Science Tools www.finescience.com	13004-14	<ul style="list-style-type: none"> • Use to create SQ pocket for device placement
<input type="checkbox"/> Metal ruler	1	1	McMaster-Carr www.mcmaster.com	2285A55	<ul style="list-style-type: none"> • 5 ¼" high accuracy
<input type="checkbox"/> Needle holder - Olsen-Hegar, extra delicate	1	1	Fine Science Tools www.finescience.com	12002-12	
<input type="checkbox"/> Regel syringe	1	1	DSI www.datasci.com	276-0038-001	<ul style="list-style-type: none"> • Use to regel pressure catheters
<input type="checkbox"/> Scissors - Lexer-baby, straight	2	2	Fine Science Tools www.finescience.com	14078-10	
<input type="checkbox"/> Scissors - Mayo	1	1	Fine Science Tools www.finescience.com	14040-15	<ul style="list-style-type: none"> • Use for drape cutting
<input type="checkbox"/> Skin hooks - elastic (small)	2	2	Cooper Surgical www.coopersurgical.com	3314-8G	
<input type="checkbox"/> Small gauge coupler kit	1	1	DSI www.datasci.com	276-0065-001	<ul style="list-style-type: none"> • Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information
<input type="checkbox"/> Small gauge crimp tool	1	1	DSI www.datasci.com	276-0019-002	

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Trocar	1	1	DSI www.datasci.com	370-0142-001	<ul style="list-style-type: none"> • Can be solid with a sleeve, or hollow • Use to tunnel biopotential leads
<input type="checkbox"/> Wire cutter	1	1	Medline www.medline.com	MDS0883112	<ul style="list-style-type: none"> • Use to cut biopotential leads
<input type="checkbox"/> Wound clips, stapler, and remover	1	1	Harvard Apparatus www.harvardapparatus.com	52-3748	<ul style="list-style-type: none"> • Can use wound clips and stapler OR suture for skin closure depending on IACUC approval

Disposable Supplies

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Absorbent underpad	1	1	Grainger www.grainger.com	45FG81	<ul style="list-style-type: none"> • Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Cotton-tipped applicators	2/pk	2/pk	Covetrus northamerica.covetrus.com	034598	
<input type="checkbox"/> Drape	2	2	Covetrus northamerica.covetrus.com	010408	<ul style="list-style-type: none"> • Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 2x2" (5x5cm)	1	1	McKesson mms.mckesson.com	529380	
<input type="checkbox"/> Needle - 18g	N/A	1	Covetrus northamerica.covetrus.com	000238	<ul style="list-style-type: none"> • Use to exteriorize biopotential leads
<input type="checkbox"/> Needle - 25g	1	1	Covetrus northamerica.covetrus.com	000224	<ul style="list-style-type: none"> • Use as catheter introducer into the carotid artery
<input type="checkbox"/> Scalpel blade - #22	1	1	Covetrus northamerica.covetrus.com	019741	<ul style="list-style-type: none"> • Blade only • Use to remove silicone tubing from leads
<input type="checkbox"/> Specimen cup	1	1	Covetrus northamerica.covetrus.com	002078	<ul style="list-style-type: none"> • Use for sterile saline
<input type="checkbox"/> Suture - 5-0 non-absorbable with a taper needle	1	1	Various	Various	<ul style="list-style-type: none"> • Use for abdominal or neck closure and tacking leads

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	1	Fine Science Tools www.finescience.com	18020-50	• Non-sterile, cut to 18" and sterilize before use in surgery
<input type="checkbox"/> Syringe - 1cc	1	1	Covetrus northamerica.covetrus.com	040847	
<input type="checkbox"/> Syringe - 3cc	1	1	Covetrus northamerica.covetrus.com	040848	
<input type="checkbox"/> Syringe - Insulin	1	1	Covetrus northamerica.covetrus.com	019336	• Use to apply topical analgesic
<input type="checkbox"/> Tape	1	1	McKesson mms.mckesson.com	½": 1527-0	• Use to secure animal to workstation
				1": 1527-1	

Rat BP/ECG (HD-S10, HD-S11)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Vessel cannulation	1	Fine Science Tools www.finescience.com	00608-11	• Use for handling pressure catheters
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Needle holder - Olsen-Hegar, extra delicate	1	Fine Science Tools www.finescience.com	12002-12	
<input type="checkbox"/> Needle holder - Olsen-Hegar, heavy	2	Fine Science Tools www.finescience.com	12002-14	• Use to occlude vessel for systemic pressure catheter placement
<input type="checkbox"/> Regel syringe	1	DSI www.datasci.com	276-0038-001	• Use to regel pressure catheters
<input type="checkbox"/> Scissors - Lexer-baby, straight	2	Fine Science Tools www.finescience.com	14078-10	
<input type="checkbox"/> Scissors - Mayo	1	Fine Science Tools www.finescience.com	14040-15	• Use for drape cutting
<input type="checkbox"/> Skin hooks - elastic (standard)	2	Cooper Surgical www.coopersurgical.com	3311-8G	
<input type="checkbox"/> Standard lead coupler kit	1	DSI www.datasci.com	276-0031-001	• Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information
<input type="checkbox"/> Standard lead crimp tool	1	DSI www.datasci.com	276-0019-001	
<input type="checkbox"/> Wire cutter	1	Medline www.medline.com	MDS0883112	• Use to cut biopotential leads

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Wound clips, stapler, and remover	1	Harvard Apparatus www.harvardapparatus.com	52-3748	<ul style="list-style-type: none"> • Can use wound clips and stapler OR suture for skin closure depending on IACUC approval
<input type="checkbox"/> Trocar	1	DSI www.datasci.com	370-0142-001	<ul style="list-style-type: none"> • Can be solid with a sleeve, or hollow • Use to tunnel biopotential leads

Disposable Supplies

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Absorbent underpad	1	Grainger www.grainger.com	45FG81	<ul style="list-style-type: none"> • Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Fiber patch	1	DSI www.datasci.com	370-0036-001	<ul style="list-style-type: none"> • Encourages connective tissue growth • Helps keep blood pressure catheter in place in rats (aorta)
<input type="checkbox"/> Cotton-tipped applicators	20/pk	Covetrus northamerica.covetrus.com	003262	<ul style="list-style-type: none"> • Non-sterile, pack and sterilize before use in surgery
<input type="checkbox"/> Drape	2	Covetrus northamerica.covetrus.com	010408	<ul style="list-style-type: none"> • Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 2x2" (5x5cm)	1	McKesson mms.mckesson.com	529380	
<input type="checkbox"/> Gauze - 4x4" (10x10cm)	1	McKesson mms.mckesson.com	401590	
<input type="checkbox"/> Needle - 14g	1	Covetrus northamerica.covetrus.com	002075	<ul style="list-style-type: none"> • Use to exteriorize ECG leads
<input type="checkbox"/> Needle - 20g	1	Covetrus northamerica.covetrus.com	000234	<ul style="list-style-type: none"> • Use to place leads
<input type="checkbox"/> Needle - 22g	1	Covetrus northamerica.covetrus.com	000224	<ul style="list-style-type: none"> • Use as catheter introducer into the aorta
<input type="checkbox"/> Pipette tips	2	Fisher Scientific www.fishersci.com	02-707-83	<ul style="list-style-type: none"> • For applying Vetbond™
<input type="checkbox"/> Scalpel blade - #22	1	Covetrus northamerica.covetrus.com	019741	<ul style="list-style-type: none"> • Blade only

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Specimen cup	1	Covetrus northamerica.covetrus.com	002078	• Use for sterile saline
<input type="checkbox"/> Suture - 4-0 non-absorbable braided on a taper needle	1	Various	Various	• Use for abdominal closure and tacking leads
<input type="checkbox"/> Suture - 5-0 absorbable monofilament on a cutting needle	1	Various	Various	• Use for intradermal skin closure (if not using wound clips)
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	Fine Science Tools www.finescience.com	18020-50	• Non-sterile, cut to 16" and sterilize before use in surgery
<input type="checkbox"/> Syringe - 1cc	1	Covetrus northamerica.covetrus.com	040847	
<input type="checkbox"/> Syringe - 10cc	1	Covetrus northamerica.covetrus.com	010349	
<input type="checkbox"/> Syringe - Insulin	1	Covetrus northamerica.covetrus.com	019336	• Use to apply topical analgesic
<input type="checkbox"/> Tape	1	McKesson mms.mckesson.com	½": 1527-0 1": 1527-1	• Use to secure animal to workstation
<input type="checkbox"/> Vetbond™	1	DSI www.datasci.com	370-0005-001	• Use to secure pressure catheter in place

Mouse ECG (ETA-F10)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Hemostats - Crile, straight	1	N/A	Fine Science Tools www.finescience.com	13004-14	<ul style="list-style-type: none"> • Use to create SQ pocket for device placement
<input type="checkbox"/> Scissors - Lexer-baby, straight	2	2	Fine Science Tools www.finescience.com	14078-10	
<input type="checkbox"/> Scissors - Mayo	1	1	Fine Science Tools www.finescience.com	14040-15	<ul style="list-style-type: none"> • Use for drape cutting
<input type="checkbox"/> Small gauge coupler kit	1	1	DSI www.datasci.com	276-0065-001	<ul style="list-style-type: none"> • Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information
<input type="checkbox"/> Small gauge crimp tool	1	1	DSI www.datasci.com	276-0019-002	
<input type="checkbox"/> Trocar	1	1	DSI www.datasci.com	370-0142-001	<ul style="list-style-type: none"> • Can be solid with a sleeve, or hollow • Use to tunnel biopotential leads
<input type="checkbox"/> Wire cutter	1	1	Medline www.medline.com	MDS0883112	<ul style="list-style-type: none"> • Use to cut biopotential leads

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Wound clips, stapler, and remover	1	1	Harvard Apparatus www.harvardapparatus.com	52-3748	<ul style="list-style-type: none"> Can use wound clips and stapler OR suture for skin closure depending on IACUC approval

Disposable Supplies

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Absorbent underpad	1	1	Grainger www.grainger.com	45FG81	<ul style="list-style-type: none"> Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Cotton-tipped applicators	2/pk	2/pk	Covetrus northamerica.covetrus.com	034598	
<input type="checkbox"/> Drape	2	2	Covetrus northamerica.covetrus.com	010408	<ul style="list-style-type: none"> Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 2x2" (5x5cm)	1	1	McKesson mms.mckesson.com	529380	
<input type="checkbox"/> Needle - 18g	N/A	1	Covetrus northamerica.covetrus.com	000238	<ul style="list-style-type: none"> Use to exteriorize biopotential leads
<input type="checkbox"/> Scalpel blade - #22	1	1	Covetrus northamerica.covetrus.com	019741	<ul style="list-style-type: none"> Blade only Use to remove silicone tubing from leads
<input type="checkbox"/> Specimen cup	1	1	Covetrus northamerica.covetrus.com	002078	<ul style="list-style-type: none"> Use for sterile saline
<input type="checkbox"/> Suture - 5-0 non-absorbable with a taper needle	1	1	Various	Various	<ul style="list-style-type: none"> Use for abdominal or neck closure and tacking leads
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	1	Fine Science Tools www.finescience.com	18020-50	<ul style="list-style-type: none"> Non-sterile, cut to 18" and sterilize before use in surgery
<input type="checkbox"/> Syringe - 3cc	1	1	Covetrus northamerica.covetrus.com	040848	
<input type="checkbox"/> Syringe - Insulin	1	1	Covetrus northamerica.covetrus.com	019336	<ul style="list-style-type: none"> Use to apply topical analgesic
<input type="checkbox"/> Tape	1	1	McKesson mms.mckesson.com	½": 1527-0	<ul style="list-style-type: none"> Use to secure animal to workstation
				1": 1527-1	

Rat ECG (CTA-F40)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Hemostats - Crile, straight	1	N/A	Fine Science Tools www.finescience.com	13004-14	<ul style="list-style-type: none"> • Use to create SQ pocket for device placement
<input type="checkbox"/> Scissors - Lexer-baby, straight	2	2	Fine Science Tools www.finescience.com	14078-10	
<input type="checkbox"/> Scissors - Mayo	1	1	Fine Science Tools www.finescience.com	14040-15	<ul style="list-style-type: none"> • Use for drape cutting
<input type="checkbox"/> Standard lead coupler kit	1	1	DSI www.datasci.com	276-0031-001	<ul style="list-style-type: none"> • Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information
<input type="checkbox"/> Standard lead crimp tool	1	1	DSI www.datasci.com	276-0019-001	
<input type="checkbox"/> Wire cutter	1	1	Medline www.medline.com	MDS0883112	<ul style="list-style-type: none"> • Use to cut biopotential leads
<input type="checkbox"/> Wound clips, stapler, and remover	1	1	Harvard Apparatus www.harvardapparatus.com	52-3748	<ul style="list-style-type: none"> • Can use wound clips and stapler OR suture for skin closure depending on IACUC approval
<input type="checkbox"/> Trocar	1	1	DSI www.datasci.com	370-0142-001	<ul style="list-style-type: none"> • Can be solid with a sleeve, or hollow • Use to tunnel biopotential leads

Disposable Supplies

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Absorbent underpad	1	1	Grainger www.grainger.com	45FG81	• Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Cotton-tipped applicators	2/pk	2/pk	Covetrus northamerica.covetrus.com	034598	
<input type="checkbox"/> Drape	2	2	Covetrus northamerica.covetrus.com	010408	• Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 4x4" (10x10cm)	1	1	McKesson mms.mckesson.com	401590	
<input type="checkbox"/> Needle - 14g	1	1	Covetrus northamerica.covetrus.com	002075	• Use to exteriorize ECG leads
<input type="checkbox"/> Needle - 20g	1	1	Covetrus northamerica.covetrus.com	000234	• Use to place leads
<input type="checkbox"/> Scalpel blade - #22	1	1	Covetrus northamerica.covetrus.com	019741	• Blade only
<input type="checkbox"/> Specimen cup	1	1	Covetrus northamerica.covetrus.com	002078	• Use for sterile saline
<input type="checkbox"/> Suture - 4-0 non-absorbable braided on a taper needle	1	1	Various	Various	• Use for abdominal closure (if IP) and tacking leads
<input type="checkbox"/> Suture - 5-0 absorbable monofilament on a cutting needle	1	1	Various	Various	• Use for intradermal skin closure (if not using wound clips)
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	1	Fine Science Tools www.finescience.com	18020-50	• Non-sterile, cut to 16" and sterilize before use in surgery
<input type="checkbox"/> Syringe - 10cc	1	1	Covetrus northamerica.covetrus.com	010349	
<input type="checkbox"/> Syringe - Insulin	1	1	Covetrus northamerica.covetrus.com	019336	• Use to apply topical analgesic
<input type="checkbox"/> Tape	1	1	McKesson mms.mckesson.com	½": 1527-0	• Use to secure animal to workstation
				1": 1527-1	

Mouse EEG/EMG (F20-EET, HD-X02)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Drill bit	1	1	P1 Technologies www.p1tec.com	D60	• Use to bore holes in the skull
<input type="checkbox"/> Drill bit holder	1	1	P1 Technologies www.p1tec.com	DH-1	• Hand drill
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Hemostats - Crile, straight	1	N/A	Fine Science Tools www.finescience.com	13004-14	• Use to create the SQ pocket for device placement
<input type="checkbox"/> Metal ruler	1	1	McMaster-Carr www.mcmaster.com	2285A55	• 5 ¾" high accuracy
<input type="checkbox"/> Needle holder - Olsen-Hegar, extra delicate	1	1	Fine Science Tools www.finescience.com	12002-12	
<input type="checkbox"/> Scissors - Lexer-baby, straight	2	2	Fine Science Tools www.finescience.com	14078-10	
<input type="checkbox"/> Scissors - Mayo	1	1	Fine Science Tools www.finescience.com	14040-15	• Use for drape-cutting
<input type="checkbox"/> Screwdriver (mouse)	1	1	P1 Technologies www.p1tec.com	SD-80	
<input type="checkbox"/> Skin hooks - elastic (small)	2	2	Cooper Surgical www.coopersurgical.com	3314-8G	
<input type="checkbox"/> Small gauge multi-color lead coupler kit	1	1	DSI www.datasci.com	276-0042-001	<ul style="list-style-type: none"> • Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Small gauge crimp tool	1	1	DSI www.datasci.com	276-0019-002	
<input type="checkbox"/> Stereotaxic apparatus	1	1	Harvard Apparatus www.harvardapparatus.com	Single Manipulator: 75-1826 Dual Manipulator: 75-1827	• Supports and steadies the head
<input type="checkbox"/> Wire cutter	1	1	Medline www.medline.com	MDS0883112	• Use to cut biopotential leads
<input type="checkbox"/> Wound clips, stapler, and remover	1	1	Harvard Apparatus www.harvardapparatus.com	52-3748	• Can use wound clips and stapler OR suture for skin closure depending on IACUC approval

Disposable Supplies

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Absorbent underpad	1	1	Grainger www.grainger.com	45FG81	• Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Cotton-tipped applicators	2/pk	2/pk	Covetrus northamerica.covetrus.com	034598	
<input type="checkbox"/> Dental acrylic - cartridge refill	1	1	Henry Schein Dental www.henryschein.com	2229568	
<input type="checkbox"/> Dental acrylic - kit	1	1	Henry Schein Dental www.henryschein.com	2227850	• Contains dental acrylic, applicator, and mixing tips • Refill cartridges and tips sold separately • May require licensure to purchase (DEA, Vet, or similar)
<input type="checkbox"/> Dental acrylic - mixing tips	2	2	Henry Schein Dental www.henryschein.com	2224922	• Autoclavable

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Drape	2	2	Covetrus northamerica.covetrus.com	010408	• Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 2x2" (5x5cm)	1	1	McKesson mms.mckesson.com	529380	
<input type="checkbox"/> Needle - 18g	N/A	1	Covetrus northamerica.covetrus.com	000238	• Use to exteriorize biopotential leads
<input type="checkbox"/> Needle - 22g	1	1	Covetrus northamerica.covetrus.com	034860	• Use to place EMG leads
<input type="checkbox"/> Scalpel blade - #22	1	1	Covetrus northamerica.covetrus.com	019741	• Blade only • Use to remove silicone tubing from leads
<input type="checkbox"/> Screws (mouse) - IROX	2-4	2-4	DSI www.datasci.com	012011-001	• Non-sterile, must be sterilized before surgery • Ideal for frequency measurements below 3 Hz • Please see the Guidelines for the use of EEG Screws with Telemetry article for more information
<input type="checkbox"/> Screws (mouse) - standard	2-4	2-4	Invivo1 www.invivo1.com	00-96 x 1/16	• Non-sterile, must be sterilized before surgery • Shaft length 1.6mm, diameter 1.19mm
<input type="checkbox"/> Specimen cup	1	1	Covetrus northamerica.covetrus.com	002078	• Use for sterile saline
<input type="checkbox"/> Suture - 5-0 non-absorbable monofilament on a taper needle	1	1	Various	Various	• Use for head incision closure
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	1	Fine Science Tools www.finescience.com	18020-50	• Non-sterile, cut to 12" and sterilize before use in surgery
<input type="checkbox"/> Syringe - 3cc	1	1	Covetrus northamerica.covetrus.com	040848	
<input type="checkbox"/> Syringe - Insulin	1	1	Covetrus northamerica.covetrus.com	019336	• Use to apply topical analgesic
<input type="checkbox"/> Tape	1	1	McKesson mms.mckesson.com	½": 1527-0 1": 1527-1	• Use to secure animal to workstation

Rat EEG/EMG (HD-S02)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Drill bit	1	1	P1 Technologies www.p1tec.com	D56	• Use to bore holes in the skull
<input type="checkbox"/> Drill bit holder	1	1	P1 Technologies www.p1tec.com	DH-1	• Hand drill
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Hemostats - Crile, straight	1	N/A	Fine Science Tools www.finescience.com	13004-14	• Use to create the SQ pocket for device placement
<input type="checkbox"/> Metal ruler	1	1	McMaster-Carr www.mcmaster.com	2285A55	• 5 3/4" high accuracy
<input type="checkbox"/> Needle holder - Olsen-Hegar, extra delicate	1	1	Fine Science Tools www.finescience.com	12002-12	
<input type="checkbox"/> Scissors - Lexer-baby, straight	1	1	Fine Science Tools www.finescience.com	14078-10	
<input type="checkbox"/> Scissors - Mayo	1	1	Fine Science Tools www.finescience.com	14040-15	• Use for drape-cutting
<input type="checkbox"/> Screwdriver (rat)	1	1	P1 Technologies www.p1tec.com	SD-80	
<input type="checkbox"/> Skin hooks - elastic (small)	2	2	Cooper Surgical www.coopersurgical.com	3314-8G	
<input type="checkbox"/> Small gauge multi-color lead coupler kit	1	1	DSI www.datasci.com	276-0042-001	<ul style="list-style-type: none"> • Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Small gauge crimp tool	1	1	DSI www.datasci.com	276-0019-002	
<input type="checkbox"/> Stereotaxic apparatus	1	1	Harvard Apparatus www.harvardapparatus.com	Single Manipulator: 75-1826 Dual Manipulator: 75-1827	<ul style="list-style-type: none"> Supports and steadies the head
<input type="checkbox"/> Wire cutter	1	1	Medline www.medline.com	MDS0883112	<ul style="list-style-type: none"> Use to cut biopotential leads
<input type="checkbox"/> Wound clips, stapler, and remover	1	1	Harvard Apparatus www.harvardapparatus.com	52-3748	<ul style="list-style-type: none"> Can use wound clips and stapler OR suture for skin closure depending on IACUC approval

Disposable Supplies

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Absorbent underpad	1	1	Grainger www.grainger.com	45FG81	<ul style="list-style-type: none"> Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Cotton-tipped applicators	20/pk	20/pk	Covetrus northamerica.covetrus.com	003262	<ul style="list-style-type: none"> Non-sterile, pack and sterilize before use in surgery
<input type="checkbox"/> Dental acrylic - cartridge refill	1	1	Henry Schein Dental www.henryschein.com	2229568	
<input type="checkbox"/> Dental acrylic - kit	1	1	Henry Schein Dental www.henryschein.com	2227850	<ul style="list-style-type: none"> Contains dental acrylic, applicator, and mixing tips Refill cartridges and tips sold separately May require licensure to purchase (DEA, Vet, or similar)

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Dental acrylic - mixing tips	2	2	Henry Schein Dental www.henryschein.com	2224922	• Autoclavable
<input type="checkbox"/> Drape	2	2	Covetrus northamerica.covetrus.com	010408	• Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 4x4" (10x10cm)	1	1	McKesson mms.mckesson.com	401590	
<input type="checkbox"/> Needle - 14g	N/A	1	Covetrus northamerica.covetrus.com	002075	• Use to exteriorize biopotential leads
<input type="checkbox"/> Needle - 22g	1	1	Covetrus northamerica.covetrus.com	034860	• Use to place EMG leads
<input type="checkbox"/> Scalpel blade - #22	1	1	Covetrus northamerica.covetrus.com	019741	• Blade only
<input type="checkbox"/> Screws (rat) - IROX	1	1	DSI www.datasci.com	012012-001	• Non-sterile, must be sterilized before surgery • Ideal for frequency measurements below 3 Hz • Please see the Guidelines for the use of EEG Screws with Telemetry article for more information
<input type="checkbox"/> Screws (rat) - standard	1	1	Invivo1 www.invivo1.com	0-80 x 1/16	• Non-sterile, must be sterilized before surgery • 1.57mm shaft diameter, 1.6mm shaft length
<input type="checkbox"/> Specimen cup	1	1	Covetrus northamerica.covetrus.com	002078	• Use for sterile saline
<input type="checkbox"/> Suture - 4-0 absorbable monofilament or braided on a taper needle	1	N/A	Various	Various	• For SQ pocket closure
<input type="checkbox"/> Suture - 4-0 non-absorbable braided on a taper needle	N/A	1	Various	Various	• For abdominal closure
<input type="checkbox"/> Suture - 5-0 non-absorbable monofilament on a cutting needle	1	1	Various	Various	• For head incision closure

Item Name	Quantity		Vendor	Part Number	Notes
	SQ	IP			
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	1	Fine Science Tools www.finescience.com	18020-50	• Non-sterile, cut to 12" and sterilize before use in surgery
<input type="checkbox"/> Syringe - 10cc	1	1	Covetrus northamerica.covetrus.com	010349	
<input type="checkbox"/> Syringe - Insulin	1	1	Covetrus northamerica.covetrus.com	019336	• Use to apply topical analgesic
<input type="checkbox"/> Tape	1	1	McKesson mms.mckesson.com	½": 1527-0	• Use to secure animal to workstation
				1": 1527-1	

Rat LVP (HD-S20, HD-S21)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> 3-way stopcock	1	Covetrus northamerica.covetrus.com	023305	
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Suture tying, straight	2	Fine Science Tools www.finescience.com	00272-13	
<input type="checkbox"/> Forceps - Vessel cannulation	1	Fine Science Tools www.finescience.com	00608-11	<ul style="list-style-type: none"> • Use for handling pressure catheters
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Magnetic Arch - Assembly	1	DSI www.datasci.com	276-0079-001	<ul style="list-style-type: none"> • Aids in retracting the abdominal wall to access the diaphragm
<input type="checkbox"/> Magnetic Arch - Fixators	4	Fine Science Tools www.finescience.com	18200-01	<ul style="list-style-type: none"> • Combine with magnetic arch assembly to hold wire hooks when retracting abdominal wall • Tall fixators not required
<input type="checkbox"/> Magnetic Arch - Base Plate	1	Fine Science Tools www.finescience.com	18200-03	<ul style="list-style-type: none"> • Combine with Magnetic Arch Assembly to retract the abdominal wall
<input type="checkbox"/> Needle holder - Castroviejo	1	Fine Science Tools www.finescience.com	12060-01	
<input type="checkbox"/> Needle holder - Olsen-Hegar, extra delicate	1	Fine Science Tools www.finescience.com	12002-12	
<input type="checkbox"/> Needle holder - Olsen-Hegar, heavy	2	Fine Science Tools www.finescience.com	12002-14	<ul style="list-style-type: none"> • Use to occlude vessel for systemic pressure catheter placement
<input type="checkbox"/> Regel syringe	1	DSI www.datasci.com	276-0038-001	<ul style="list-style-type: none"> • Use to regel pressure catheters
<input type="checkbox"/> Scissors - Lexer-baby, straight	2	Fine Science Tools www.finescience.com	14078-10	

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Scissors - Mayo	1	Fine Science Tools www.finescience.com	14040-15	• Use for drape-cutting
<input type="checkbox"/> Scissors - Metzenbaum-baby, straight	1	Fine Science Tools www.finescience.com	14018-14	
<input type="checkbox"/> Scissors - Tenotomy, straight	1	World Precision Instruments www.wpiinc.com	14395	
<input type="checkbox"/> Scissors - Vannas, angled	1	World Precision Instruments www.wpiinc.com	503214	• Use for incising the diaphragm
<input type="checkbox"/> Skin hooks - elastic (standard)	2	Cooper Surgical www.coopersurgical.com	3311-8G	• Only necessary for systemic pressure catheter placement
<input type="checkbox"/> Skin hooks - wire	6	McMaster-Carr www.mcmaster.com	8908K32	• Combine with Fixators to aid in retracting the abdominal wall • Cut in half and bend one end to make a hook
<input type="checkbox"/> Standard lead coupler kit	1	DSI www.datasci.com	276-0031-001	• Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information
<input type="checkbox"/> Standard lead crimp tool	1	DSI www.datasci.com	276-0019-001	
<input type="checkbox"/> Trocar	1	DSI www.datasci.com	370-0142-001	• Can be solid with a sleeve, or hollow • Use to tunnel biopotential leads and/or catheter
<input type="checkbox"/> Ventilator (VentElite)	1	Harvard Apparatus www.harvardapparatus.com	55-7040	• Requires use of endotracheal tubes or non-intubating nose cone to ventilate animal • See technical note for additional information
<input type="checkbox"/> Wire cutter	1	Medline www.medline.com	MDS0883112	• Use to cut biopotential leads
<input type="checkbox"/> Wound clips, stapler, and remover	1	Harvard Apparatus www.harvardapparatus.com	52-3748	• Can use wound clips and stapler OR suture for skin closure depending on IACUC approval

Disposable Supplies

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Absorbent underpad	1	Grainger www.grainger.com	45FG81	<ul style="list-style-type: none"> Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Absorption triangles, unmounted	6-8	Fine Science Tools www.finescience.com	18105-03	<ul style="list-style-type: none"> Non-sterile, pack and sterilize before use in surgery
<input type="checkbox"/> Butterfly catheter - 25g	1	Covetrus northamerica.covetrus.com	029525	<ul style="list-style-type: none"> Remove air through intercostal space
<input type="checkbox"/> Fiber patch	1	DSI www.datasci.com	370-0036-001	<ul style="list-style-type: none"> Encourages connective tissue growth Helps keep blood pressure catheter in place in rats (aorta)
<input type="checkbox"/> Cotton-tipped applicators	20/pk	Covetrus northamerica.covetrus.com	003262	<ul style="list-style-type: none"> Non-sterile, pack and sterilize before use in surgery
<input type="checkbox"/> Drape	2	Covetrus northamerica.covetrus.com	010408	<ul style="list-style-type: none"> Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 2x2" (5x5cm)	2	McKesson mms.mckesson.com	529380	
<input type="checkbox"/> Gauze - 4x4" (10x10cm)	2	McKesson mms.mckesson.com	401590	
<input type="checkbox"/> Needle - 14g	1	Covetrus northamerica.covetrus.com	002075	<ul style="list-style-type: none"> Use to exteriorize ECG leads and/or catheter
<input type="checkbox"/> Needle - 20g	2	Covetrus northamerica.covetrus.com	000234	<ul style="list-style-type: none"> Use to puncture the heart 1 additional can be used to place leads
<input type="checkbox"/> Needle - 22g	1	Covetrus northamerica.covetrus.com	000224	<ul style="list-style-type: none"> Use as catheter introducer into the aorta
<input type="checkbox"/> Pipette tips	2	Fisher Scientific www.fishersci.com	02-707-83	<ul style="list-style-type: none"> For applying Vetbond™
<input type="checkbox"/> Scalpel blade - #22	1	Covetrus northamerica.covetrus.com	019741	<ul style="list-style-type: none"> Blade only
<input type="checkbox"/> Specimen cup	1	Covetrus northamerica.covetrus.com	002078	<ul style="list-style-type: none"> Use for sterile saline
<input type="checkbox"/> Suture - 4-0 non-absorbable braided on a taper needle	1	Various	Various	<ul style="list-style-type: none"> Use for abdominal closure

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Suture - 5-0 non-absorbable suture (no needle)	1	Various	Various	<ul style="list-style-type: none"> • Tie around suture aid of LV catheter • Can purchase with needle and trim to size (3") either at surgery, or pre-make sterilized packs
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	Fine Science Tools www.finescience.com	18020-50	<ul style="list-style-type: none"> • Non-sterile, cut to 16" and sterilize before use in surgery
<input type="checkbox"/> Suture - 6-0 silk with curved taper needle	1	Covetrus northamerica.covetrus.com	036663	<ul style="list-style-type: none"> • Use on heart or diaphragm
<input type="checkbox"/> Syringe - 1cc	1	Covetrus northamerica.covetrus.com	040847	<ul style="list-style-type: none"> • Only necessary for systemic pressure catheter placement
<input type="checkbox"/> Syringe - 10cc	1	Covetrus northamerica.covetrus.com	010349	
<input type="checkbox"/> Syringe - Insulin	1	Covetrus northamerica.covetrus.com	019336	<ul style="list-style-type: none"> • Use to apply topical analgesic
<input type="checkbox"/> Tape	1	McKesson mms.mckesson.com	½": 1527-0 1": 1527-1	<ul style="list-style-type: none"> • Use to secure animal to workstation
<input type="checkbox"/> Vetbond™	1	DSI www.datasci.com	370-0005-001	<ul style="list-style-type: none"> • Use to secure pressure catheter in place

Rat PAP (HD-S20, HD-S21)

* There are many types of suture material that are acceptable for use. Please see DSI's [Rodent Suture Material and Size Recommendations](#) tech note in the [DSI Support Center](#) for more information.

Instruments and Equipment

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> 3-way stopcock	1	Covetrus northamerica.covetrus.com	023305	
<input type="checkbox"/> Clamps - Micro bulldog, curved	2	World Precision Instruments www.wpiinc.com	14119	
<input type="checkbox"/> Forceps - Graefe, curved, with teeth	2	Fine Science Tools www.finescience.com	11054-10	
<input type="checkbox"/> Forceps - Suture tying, straight	2	Fine Science Tools www.finescience.com	00272-13	
<input type="checkbox"/> Forceps - Vessel cannulation	1	Fine Science Tools www.finescience.com	00608-11	• Use for handling pressure catheters
<input type="checkbox"/> Forceps - Vessel dilator, angled	2	Fine Science Tools www.finescience.com	00276-13	
<input type="checkbox"/> Needle holder - Castroviejo	1	Fine Science Tools www.finescience.com	12060-01	
<input type="checkbox"/> Needle holder - Olsen-Hegar, extra delicate	1	Fine Science Tools www.finescience.com	12002-12	
<input type="checkbox"/> Needle holder - Olsen-Hegar, heavy	2	Fine Science Tools www.finescience.com	12002-14	• Use to occlude vessel for systemic pressure catheter placement
<input type="checkbox"/> Regel syringe	1	DSI www.datasci.com	276-0038-001	• Use to regel pressure catheters
<input type="checkbox"/> Retractor - Alms, small	1	World Precision Instruments www.wpiinc.com	14240-G	• Aid in opening rib space
<input type="checkbox"/> Scissors - Lexer-baby, straight	2	Fine Science Tools www.finescience.com	14078-10	
<input type="checkbox"/> Scissors - Mayo	1	Fine Science Tools www.finescience.com	14040-15	• Use for drape-cutting
<input type="checkbox"/> Scissors - Metzenbaum-baby, straight	1	Fine Science Tools www.finescience.com	14018-14	

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Scissors - Tenotomy, straight	1	World Precision Instruments www.wpiinc.com	014395	
<input type="checkbox"/> Scissors - Vannas, angled	1	World Precision Instruments www.wpiinc.com	503214	<ul style="list-style-type: none"> • Use for incising the diaphragm
<input type="checkbox"/> Skin hooks - elastic (standard)	2	Cooper Surgical www.coopersurgical.com	3311-8G	<ul style="list-style-type: none"> • Only necessary for systemic pressure catheter placement
<input type="checkbox"/> Skin hooks - wire	6	McMaster-Carr www.mcmaster.com	8908K32	<ul style="list-style-type: none"> • Cut in half and bend one end to make a hook
<input type="checkbox"/> Standard lead coupler kit	1	DSI www.datasci.com	276-0031-001	<ul style="list-style-type: none"> • Use to couple and/or repair biopotential leads • Requires a crimp tool, sold separately • Please see DSI's Lead Coupler Kit Manual for additional information
<input type="checkbox"/> Standard lead crimp tool	1	DSI www.datasci.com	276-0019-001	
<input type="checkbox"/> Trocar	1	DSI www.datasci.com	370-0142-001	<ul style="list-style-type: none"> • Can be solid with a sleeve, or hollow • Use to tunnel biopotential leads and/or catheter
<input type="checkbox"/> Ventilator (VentElite)	1	Harvard Apparatus www.harvardapparatus.com	55-7040	<ul style="list-style-type: none"> • Requires use of endotracheal tubes or non-intubating nose cone to ventilate animal • See technical note for additional information
<input type="checkbox"/> Wire cutter	1	Medline www.medline.com	MDS0883112	<ul style="list-style-type: none"> • Use to cut biopotential leads
<input type="checkbox"/> Wound clips, stapler, and remover	1	Harvard Apparatus www.harvardapparatus.com	52-3748	<ul style="list-style-type: none"> • Can use wound clips and stapler OR suture for skin closure depending on IACUC approval

Disposable Supplies

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Absorbent underpad	1	Grainger www.grainger.com	45FG81	<ul style="list-style-type: none"> Place under animal to absorb fluids, can be cut to size
<input type="checkbox"/> Absorption triangles, unmounted	6-8	Fine Science Tools www.finescience.com	18105-03	<ul style="list-style-type: none"> Non-sterile, pack and sterilize before use in surgery
<input type="checkbox"/> Butterfly catheter - 25g	1	Covetrus northamerica.covetrus.com	029525	<ul style="list-style-type: none"> Remove air through intercostal space
<input type="checkbox"/> Fiber patch	1	DSI www.datasci.com	370-0036-001	<ul style="list-style-type: none"> Encourages connective tissue growth Helps keep blood pressure catheter in place in rats (aorta)
<input type="checkbox"/> Cotton-tipped applicators	20/pk	Covetrus northamerica.covetrus.com	003262	<ul style="list-style-type: none"> Non-sterile, pack and sterilize before use in surgery
<input type="checkbox"/> Drape	2	Covetrus northamerica.covetrus.com	010408	<ul style="list-style-type: none"> Can be cut to size and sterilized
<input type="checkbox"/> Gauze - 2x2" (5x5cm)	2	McKesson mms.mckesson.com	529380	
<input type="checkbox"/> Gauze - 4x4" (10x10cm)	2	McKesson mms.mckesson.com	401590	
<input type="checkbox"/> Needle - 14g	1	Covetrus northamerica.covetrus.com	002075	<ul style="list-style-type: none"> Use to exteriorize biopotential leads and/or catheter
<input type="checkbox"/> Needle - 20g	1	Covetrus northamerica.covetrus.com	000234	<ul style="list-style-type: none"> Use to place leads
<input type="checkbox"/> Needle - 22g	1	Covetrus northamerica.covetrus.com	000224	<ul style="list-style-type: none"> Use as catheter introducer into the aorta
<input type="checkbox"/> Needle - 23g	1	Covetrus northamerica.covetrus.com	062391	<ul style="list-style-type: none"> Use to puncture the heart
<input type="checkbox"/> Pipette tips	2	Fisher Scientific www.fishersci.com	02-707-83	<ul style="list-style-type: none"> For applying Vetbond™
<input type="checkbox"/> Scalpel blade - #22	2	Covetrus northamerica.covetrus.com	019741	<ul style="list-style-type: none"> 1 for systemic pressure/ECG, 1 for PAP Blade only
<input type="checkbox"/> Specimen cup	1	Covetrus northamerica.covetrus.com	002078	<ul style="list-style-type: none"> Use for sterile saline

Item Name	Quantity	Vendor	Part Number	Notes
<input type="checkbox"/> Suture - 4-0 non-absorbable braided on a taper needle	1	Various	Various	<ul style="list-style-type: none"> • Use for rib closure and abdominal closure (absorbable suture can be used on ribs if required)
<input type="checkbox"/> Suture - 5-0 absorbable monofilament on a cutting needle	1	Various	Various	<ul style="list-style-type: none"> • Use for intradermal skin closure
<input type="checkbox"/> Suture - 5-0 absorbable monofilament on a taper needle	1	Various	Various	<ul style="list-style-type: none"> • Use for muscle and subcutaneous closure
<input type="checkbox"/> Suture - 5-0 silk (no needle)	1	Fine Science Tools www.finescience.com	18020-50	<ul style="list-style-type: none"> • Non-sterile, cut to 16" and sterilize before use in surgery • Only necessary for BP/ECG
<input type="checkbox"/> Suture - 6-0 silk on a taper needle	1	Covetrus northamerica.covetrus.com	036663	<ul style="list-style-type: none"> • Use for purse-string on heart
<input type="checkbox"/> Syringe - 1cc	1	Covetrus northamerica.covetrus.com	040847	<ul style="list-style-type: none"> • Only necessary for systemic pressure catheter placement
<input type="checkbox"/> Syringe - 10cc	1	Covetrus northamerica.covetrus.com	010349	
<input type="checkbox"/> Syringe - Insulin	1	Covetrus northamerica.covetrus.com	019336	<ul style="list-style-type: none"> • Use to apply topical analgesic
<input type="checkbox"/> Tape	1	McKesson mms.mckesson.com	½": 1527-0 1": 1527-1	<ul style="list-style-type: none"> • Use to secure animal to workstation
<input type="checkbox"/> Vetbond™	1	DSI www.datasci.com	370-0005-001	<ul style="list-style-type: none"> • Use to secure pressure catheter in place