

Materials List for:

Evaluation of Biomaterials for Bladder Augmentation using Cystometric Analyses in Various Rodent Models

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Materials

Name	Company	Catalog Number	Comments
Shaving shears	Preparation of rat/mouse for surgery		
Sterile drapes, betadine, 70% ethanol, sterile gauze	Preparation of sterile surgical field		
Instruments:			
Scalpel blade	Skin incision		
forceps with teeth	Manipulating skin		
Fine forceps	Atraumatic (no teeth), no serrations or with fine serrations to manipulate		
Small needle driver	Sharp tissue dissection		
Metzenbaum scissors	Bladder incision		
Tenotomy scissors	For retraction sutures and to develop subcutaneous tunnel (cystostomy catheter)		
Small curved clamps	Subcutaneous tunnel (cystostomy catheter)		
Sutures:			
6-0 polypropylene sutures	Bladder stay sutures and pursestring suture		
7-0 polyglactin suture	Anastomosis of scaffold to bladder		
4-0 polyglactin suture	Closure of muscle/skin		
3-0 or 4-0 Silk suture	Securing catheter tip to skin		
Needles and syringes:			
18 Gauge needle	Piercing the bladder for cystostomy catheter		
25 and 30 Gauge needles	Testing bladder for leakage		
1 mL saline filled syringe			
22 Gauge blunt tip needle			
Cystostomy catheter:			
PE-50 tubing			
Lighter	Flaring PE-50 tubing		
Small curved clamp	Developing subcutaneous tunnel		
Cystometry:			

MLT844 ADInstruments data capture and LabChart software	Pressure data acquisition		
Harvard 22 syringe pump (Harvard Apparatus, Holliston, MA)	Fluid infusion pump		
Anesthetics (Unconscious cystometry):			
Isoflurane	Induction/maintenance of general anesthesia		
Urethane	Unconscious cystometry		
Bupivacaine or equivalent	Local anesthesia		
Meloxicam	Post-operative analgesia		
Buprenorphine	Post-operative analgesia		