

Materials List for:

Surgical Technique for the Implantation of Tissue Engineered Vascular Grafts and Subsequent *In Vivo* Monitoring

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Materials

Name	Company	Catalog Number	Comments
Pressure Transducer	Becton Dickinson	P23XL-1	Quantity: 1+ (1 for each artery). Used with water-filled diaphragm domes.
Amplifier and transducer box	Gould	5900 Signal Conditioner Cage	Quantity: 1. Two transducers and amplifiers should be included in cage. While this specific unit may be discontinued, other commercially available pressure transducers with a BNC/analog output will communicate with the Sonometrics equipment.
T403 Console with TS420 perivascular flowmeter module (x2)	Transonic Systems	T403 module and TS420 (x2)	Quantity: 1. Flow probes measuring flow through each of the carotid arteries will connect to each of the TS420 units.
Digital ultrasonic measurement unit	Sonometrics	TR-USB	Quantity: 1
Flow Probe Precision S-Series 4 mm	Transonic Systems Inc.	MC4PSS-LS-WC100-CM4B-GA	Quantity: 2
1 mm Sonometrics Crystals	Sonometrics Systems	1R-38S-20-NC-SH	Quantity: 2-4 (2 for each artery)
Catheter for implantation	BD (Becton Dickinson)	381447	Quantity: 1+ (1 for each artery). Catheter is cut and secured to microbore tubing, stylette is utilized for insertion.
Tygon Microbore Tubing	Norton Performance Plastics	(AAQ04127) Formulation S-54-HL	Cut to length for an extension set
Luer Stub Adapter	BD (Becton Dickinson)	427564 (20 gauge)	Quantity: 1+ (1 for each arterial catheter)
Surflo Injection Plug	Terumo	SR-IP2	Quantity: 1+ (1 for each arterial catheter)
Meadox	PTFE (Teflon) Felt	19306	Cut to size. The PTFE felt used in our studies was discontinued. However, comparable companies such as "Surgical Mesh" offer products which are equivalent.