

Materials List for:

Description of a Novel, Surgically Implanted Neuromodulatory Technique Known As Bilateral Epidural Prefrontal Cortical Stimulation (Epcs) for Treatment-Resistant Depression (TRD)

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Materials

Name	Company	Catalog Number	Comments
3T MRI Scanner	Siemens		
Computer workstation			
Imaging software	University of South Caroline		MRlcro; http://www.sph.sc.edu/comd/rorden/micro.html
Electrocardiography			
Pulse oximetry			
End-tidal CO2			
Non-invasive blood pressure monitoring			
Fentanyl (50-250 micrograms)			
Propofol infusion (25-100 micrograms/kg/min)			
2% lidocaine with epinephrine (2ccs)			
Equal mixture of 1% lidocaine with epinephrine 1:100,000 and bupivacaine 0.5% (5ccs)			
Skull clamp with surgical pins	IntegraTM, Plainsboro, New Jersey		Mayfield
Neuronavigation system	BrainLab, Westchester, Illinois		VectorVision
Paddle leads with extensions	Medtronic Inc., Minneapolis, Minnesota		Resume
Pulse generator with 2 channels	Medtronic Inc., Minneapolis, Minnesota		Synergy
Neurostimulator	Medtronic Inc., Minneapolis, Minnesota		Activa PC/RC
Standard aesculap power-drill			
Generic 4mm spherical diamond drill bit			
Plates and microscrews	Stryker, Kalamazoo, Michigan		Leibinger "Dog-bone" style
Bacitracin solution			
Vancomycin power			
Gelfoam			

2-0 vicryl sutures			
3-0 nylon sutures			
Sterile dressing materials			
Endotracheal anesthesia			As dictated by patient's history and anesthesiologist's preference
3-0 vicryl sutures			
4-0 nylon sutures			
High resolution spiral CT scan without contrast			
Opiate analgesics			
Programmer wand	Medtronic Inc., Minneapolis, Minnesota		N'Vision Clinician Programmer