

Neurosurgical Grouping Scheme and Benefits

Groupings
04 - Neurosurgical
04.01 - ANEURYSM CLIPS
04.01.01 - Aneurysm Clip
Complex
04.01.02 - AVM Clip
04.02 - DURA DEFECT REPAIR
04.02.01 - Repair, Graft, Small ($\leq 10\text{cm}^2$)
Biological
04.02.02 - Repair, Graft, Medium (>10 to 50cm^2)
Biological
04.02.03 - Repair, Graft, Large (>50 to 100cm^2)
Biological
04.02.04 - Repair, Graft, Extra Large ($>100\text{cm}^2$)
Biological
04.02.05 - Repair, Liquid Sealant (0 to 3ml)
04.02.06 - Repair, Liquid Sealant (>3 to 6ml)
04.02.07 - Repair, Self-Adhesive Membrane Sealant, Small ($\leq 10\text{cm}^2$)
04.02.08 - Repair, Self-Adhesive Membrane Sealant, Medium (>10 to 50cm^2)
04.02.09 - Repair, Self-Adhesive Membrane Sealant, Large (>50 to 100cm^2)
04.03 - HYDROCEPHALUS DEVICES
04.03.01 - Valves
04.03.01.01 - Valve, Externally Adjustable
Antisyphon function, Coating, Distal catheter, Proximal catheter, Reservoir/Priming function
Antisyphon function, Coating, Distal catheter, Reservoir/Priming function
Antisyphon function, Coating, Reservoir/Priming function
Antisyphon function, Distal catheter, Proximal catheter, Reservoir/Priming function
Antisyphon function, Distal catheter, Reservoir/Priming function
Antisyphon function, Reservoir/Priming function
Distal catheter, Lumboperitoneal, Proximal catheter, Reservoir/Priming function
Distal catheter, Proximal catheter, Reservoir/Priming function

Neurosurgical Grouping Scheme and Benefits

Groupings	
	Distal catheter, Reservoir/Priming function
	Lumboperitoneal, Reservoir/Priming function
	Reservoir
	Reservoir/Priming function
04.03.01.02 - Valve, Non-externally adjustable	
	Antibiotics, Antisyphon function, Distal catheter, Proximal catheter, Reservoir/Priming function
	Antibiotics, Distal catheter, Proximal catheter
	Antibiotics, Distal catheter, Proximal catheter, Reservoir/Priming function
	Antisyphon function
	Antisyphon function, Coating, Distal catheter, Proximal catheter, Reservoir/Priming function
	Antisyphon function, Coating, Distal catheter, Reservoir/Priming function
	Antisyphon function, Coating, Reservoir/Priming function
	Antisyphon function, Distal catheter, Proximal catheter, Reservoir/Priming function
	Antisyphon function, Distal catheter, Reservoir/Priming function
	Antisyphon function, Lumboperitoneal
	Antisyphon function, Reservoir/Priming function
	Distal catheter, Lumboperitoneal
	Distal catheter, Proximal catheter
	Distal catheter, Proximal catheter, Reservoir/Priming function
	Distal catheter, Reservoir/Priming function
	Lumboperitoneal
	Reservoir/Priming function
04.03.01.03 - Valve and gravitational unit, externally adjustable	
	Distal Catheter
	Distal Catheter, Reservoir/Priming Function
04.03.02 - Unitised shunt assembly, with proximal/distal catheter	
	Antisyphon function
	Reservoir/Priming function
04.03.03 - Catheter	
	Antibiotics
	Antibiotics, Distal, Proximal
	Distal
	Distal, Coating
	Proximal
	Proximal, Coating
04.03.04 - Antisyphon Device	

Neurosurgical Grouping Scheme and Benefits

Groupings
04.03.05 - Reservoir/Priming Device
Integrated Catheter
04.03.06 - Shunt Attachment
04.03.06.01 - Connector
04.03.06.02 - Right Angled Guide
04.04 - DEEP BRAIN STIMULATION (DBS)
04.04.01 - Implantable Pulse Generator
04.04.01.01 - Primary Cell Pulse Generator (non-rechargeable)
Dual Channel
04.04.01.02 - Rechargeable Pulse Generator
Dual Channel
Unlimited Deep Discharge Battery
04.04.02 - External Components
04.04.02.01 - Patient Programmer
Bluetooth
04.04.02.02 - Recharger
04.04.03 - Leads
04.04.03.01 - Permanent Lead
Current steering
04.04.03.02 - Lead Extension
04.04.04 - Microtargetting Electrodes
04.04.04.01 - Burr Hole Cover
04.04.04.02 - Connectors and Cables
04.04.04.03 - Intraoperative accessories
04.04.05 - Accessories
04.04.05.01 - Burr Hole Cover
04.04.05.02 - Connectors and cables
04.04.05.03 - Intraoperative accessories
04.05 - NEUROSTIMULATION THERAPIES FOR PAIN MANAGEMENT
04.05.01 - Pulse Generators

Neurosurgical Grouping Scheme and Benefits

Groupings	
04.05.01.01 - Primary Cell Pulse Generator (non-rechargeable)	
Adaptive Stimulation	
Multi waveforms	
04.05.01.02 - Rechargeable Pulse Generator	
Adaptive Stimulation	
Adaptive Stimulation, Multi waveform, Recharge protection, Unlimited Deep Discharge Battery,	
Adaptive Stimulation, Unlimited Deep Discharge Battery, 32 Electrode IPG	
Integrated Leads	
Multi waveform, Recharge protection	
Multi waveform, Recharge protection, Unlimited deep discharge battery	
Unlimited Deep Discharge Battery	
Unlimited Deep Discharge Battery, 10kHz Stimulation	
04.05.01.03 - Radio Frequency System	
Dual Channel	
04.05.02 - External Components	
04.05.02.01 - Patient Programmer	
Bluetooth	
04.05.02.02 - Patient Programmer Antenna	
04.05.02.03 - On/Off switching device	
04.05.02.04 - Recharger	
04.05.02.05 - External Neurostimulator	
04.05.03 - Leads	
04.05.03.01 - Permanent Lead	
4 electrodes	
8 electrodes	
≥32 electrodes	
greater than 8 and less than 32 electrodes	
greater than 8 and less than 32 electrodes, Bifurcated proximal tail	
04.05.03.02 - Trial Lead	
04.05.04 - Lead Extension	
04.05.05 - Accessories	
04.05.05.01 - Revision Kits	

Neurosurgical Grouping Scheme and Benefits

Groupings
04.05.05.02 - Plug
04.05.05.03 - Intraoperative Accessories
04.05.05.04 - Lead Delivery System
04.05.05.05 - Connectors and Cables
04.06 - INTRATHECAL DRUG DELIVERY SYSTEM
04.06.01 - Implantable Infusion Pump
Fixed Flow Rate
Variable Flow Rate
04.06.02 - Patient Programmer
04.06.03 - Intrathecal Catheter
04.06.03.01 - One piece
04.06.03.02 - Two piece
Reinforced
04.06.04 - Accessories
04.06.04.01 - Revision Kit
04.06.04.02 - Refill/Catheter Access Kits
04.07 - NEUROSTIMULATION THERAPIES FOR SEIZURE CONTROL
04.07.01 - Vagal nerve stimulators
04.07.01.01 - Implantable pulse generator
04.07.01.02 - Lead
04.07.02 - Stereo Electroencephalography Guided Radiofrequency Thermocoagulation
04.07.02.01 - Lead
04.08 - NEURO INTERVENTION
04.08.01 - Stent
04.08.02 - Coils
04.08.03 - Assist Devices
04.08.03.01 - Catheters

Neurosurgical Grouping Scheme and Benefits

Groupings
04.08.03.02 - Coil detachment device
04.08.03.03 - Guidewire
04.08.03.04 - Vascular embolisation balloon
04.08.04 - Intracapsular flow diverter
04.09 - Intracranial Pressure (ICP) Monitoring
04.09.01 - Transducer
Catheter
Skull Bolt
04.09.02 - Catheter with Transducer
04.10 - Cerebrospinal Fluid (CSF) Diversion
04.10.01 - External Ventricular Drain
Antibiotics
04.10.02 - External Lumbar Drainage

SUFFIXES AND DEFINITIONS FOR NEUROSURGICAL

Adaptive Stimulation	Senses patient body position and adjusts stimulation accordingly
Antibiotic	Contains or is covered with an antibiotic to prevent infection
Antimicrobial	Substance that kills or inhibits the growth of micro-organisms
Antisiphon function	Prevents unwanted drainage or transfer of a liquid
Biological	Includes tissue derived from humans and or animals
Coating	Includes a coating that minimises the likelihood of adhesions
Complex	Composed of many interconnected parts
Current steering	The lead has the capacity to shape the stimulation current in one particular direction rather than in all directions
Deep Discharge Battery	Allows frequent discharge to zero volts without causing early battery failure
Dual Channel	A system with the ability to simultaneously deliver two different levels of stimulation
Fixed Flow Rate	The drug delivery flow rate is fixed at manufacture and is non-adjustable
Multi waveform	Capable of providing both tonic and burst stimulation

Neurosurgical Grouping Scheme and Benefits

Recharge protection

The device features technology that prevents the battery from “dying” if the charge is frequently depleted

Variable Flow Rate

The drug delivery flow rate is able to be adjusted dependent on clinician preferences and patient needs