

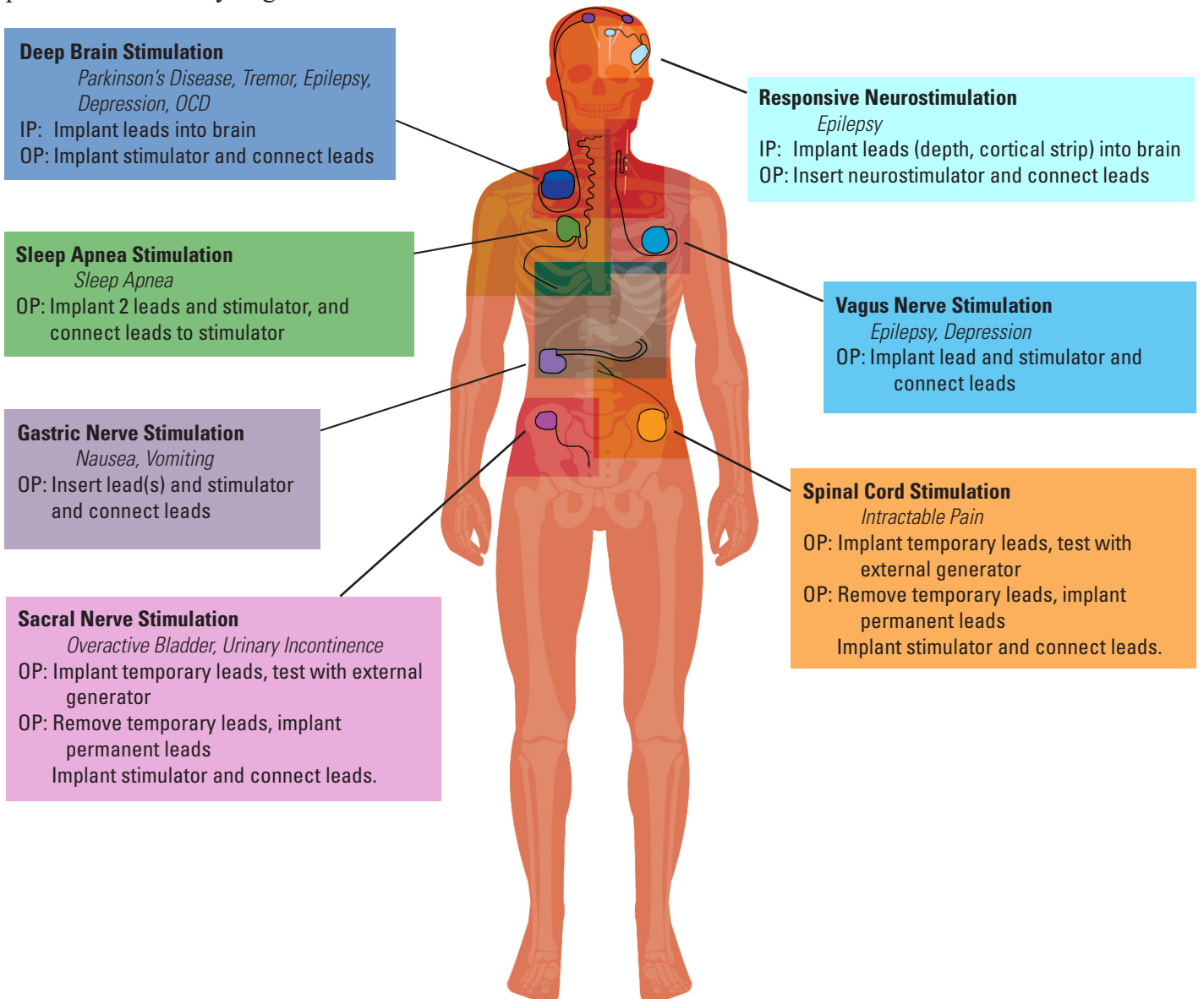
PROCEDURE BASICS


















"What a supply chain executive needs to know on one page"

Implanted Stimulators

Scientists and clinicians have been using electricity to stimulate or modify nerve response practically since the invention of electricity. Implantable stimulators have been around for at least 40 years and recently there has been a proliferation of new devices and companies with narrowly targeted indications.

Those listed here and on page 2 are the devices that have been sold to the hospital customers of Curvo Labs during 2019. It is by no means an exhaustive list of all the devices that are commercially available, however it does reflect the current market leaders in the Curvo Labs client base.



						Components					
Stimulation Category	Manufacturer	Device	1st FDA Approval	Procedures To Date	Stimulator	"Usual" Leads ⁵	"Billed" Leads ⁶	Programmer	Charger	Other	
											Responsive
Deep Brain Stimulation	Abbott	Infinity 	1997		1		1.3				
	Boston Scientific	Vercise 	2017		1		0.2				
	Medtronic	Activa 	1997		1-2	2	0.1	1	1	Lead anchor, extensions	
Sleep Apnea Stimulation	Inspire Medical	(INSP) 	2014	4,600 ¹	1	2	N/A	1			
Gastric Nerve Stimulation	Medtronic	Enterra 			1	2	0.7				
Vagus Nerve Stimulation	LivaNova	VNS Therapy 	1997	} 100,000+ ²	1	1	0.3	1		Tunnelers, accessory pack	
	LivaNova	Aspire 	2013		1	1	0.2	1		Tunnelers	
	LivaNova	Sentiva 	2019		1	1	0.4	1		Tunnelers	
Neuro Stimulation (Spinal Cord Stimulation SCS)	Medtronic	Intellis 	2017		1	2-4	0.9	1	1		
	Medtronic	Prime 	2013		1	1-2	0.3	1			
	Abbott	Proclaim 	2015		1	2	0.8	1		Tunnelers	
	Abbott	Prodigy 	2013		1	2	0.9	1	1	Tunnelers	
	Boston Scientific	Precision 	2004		1	1	1.0				
	Boston Scientific	Wave Writer 	2013		1	2-4	0.7	1	1	Tunnelers, Anchor	
	Nevro	Senza 	2015	50,000 ³	1	2	1.9	1	1	Anchor	
	Nuvectra	Algovita 	2019	4,000 ⁴	1	2	1.5	1			
Sacral Nerve Stimulation	Medtronic:	InterStim 	1997		1	2	0.4	1		Lead introducer, external neurostimulator	

¹ 2018 10-K for Inspire Medical

² LivaNova patient brochure

³ Nevro 2018 10-K, 2016-2018 revenues divided by \$20,000

⁴ Nuvectra 2018 10-k. 2016-2018 sales divided by \$20,000

⁵ Leads normally implanted during same episode as the stimulator. Leads implanted during a separate episode, such as trial leads, are not included.

⁶ Ratio of leads to generators for purchase orders with implanted stimulators for Curvo hospital clients in 2019. Leads that are on separate purchase orders from generators are not included. "Bundled" purchase orders for generator and leads would not include leads.