

Foot Drop Stimulation System Procurement

Project Title

Foot Drop Stimulation System Procurement

Background

The Minneapolis VAHCS provides a variety of clinical services. The Physical Therapy department at the Minneapolis VAHCS utilizes a variety of different equipment to complete their studies. One system utilizes functional electrical stimulation to improve walking ability of individuals who have paralysis or weakness of the front part of their foot.

Scope

The Minneapolis VAHCS is procuring two (2) foot drop stimulation systems and associated accessories and consumables to be utilized by the Physical Therapy department.

Equipment Requirements

A quantity of two (2) foot drop stimulation systems, associated disposables and consumables is being requested for the Minneapolis VAHCS Physical Therapy department.

The machine shall have the following requirements or equal to:

Line Item	Catalog Number	Description	Quantity
1	20-0260	Bi-Flex Cuff, Medium 11"-17"	2
2	20-0270	Bi-Flex Cuff, Large 12"-19"	2
3	20-1002	WalkAide Demo Kit	2
4	20-0300	WalkLink Clinician Kit	2
5	20-0313	WalkLink Clinician Tool Case	2
6	20-0314	Netbook w/ WalkAnalyst Installed	2
7	20-0290	Disposable Cuff Liners, case of 10	2
8	20-0550	1.875" Premium Blue Gel Electrode, case of 10	2

General Requirements

- Must have FDA clearance
- Must be able to assist in treating foot drop from the following conditions: multiple sclerosis, stroke, cerebral palsy, incomplete spinal cord injury, traumatic brain injury.
- Battery operated, single-channel electrical simulator
- Two electrodes
- Stimulator shall be applied directly to the leg, not implanted under the skin
- Must have an exercise mode functionality that can provide up to 30 minutes of electrical stimulation
- Equipment shall utilized tilt sensor technology to stimulate the appropriate nerves to raise the foot at the right time in the step cycle
- Must have multiple modes available for clinical use
- Must be a self-contained system that does not require remotes, external wires, or heel sensors
- Must be capable of single battery operation
- Must be capable of accurately analyzing leg movement to help promote a natural gait
- Must be independent of footwear, meaning regardless of footwear, functionality it not compromised
- Must be no larger than 8.2cm(H) x 6.1cm(W) x 2.1cm(T)
- Must be no heavier than 88 g
- Must be able to use power from one (1) 1.5 volt alkaline AA battery for up to 30 days without a nightly charge
- Maximum current of 200 mA at 500 ohm, maximum voltage of 121V at 1 K ohm
- Must use asymmetrical biphasic pulse with a pulse width of 25-300 microseconds
- Maximum stimulation period of 3 seconds

- Must use a washable liner

Delivery

- Contractor shall deliver the equipment to the Minneapolis VA Health Care System. The address is One Veterans Drive, Minneapolis, MN 55417

Warranty

- Minimum one (1) year warranty

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