Say Yes to Ampcare ESP™

WHEN IT COMES TO SWALLOW THERAPY, SLPs CHOOSE ESP

Ampcare's Effective Swallowing Protocol (ESP) is the first hand-held, FDA-cleared neuromuscular electrical stimulation (NMES) treatment for dysphagia with adjustable parameters. This will achieve the right level of muscle activation and comfort for the patient.

MINIMAL TIME, MAXIMUM IMPACT

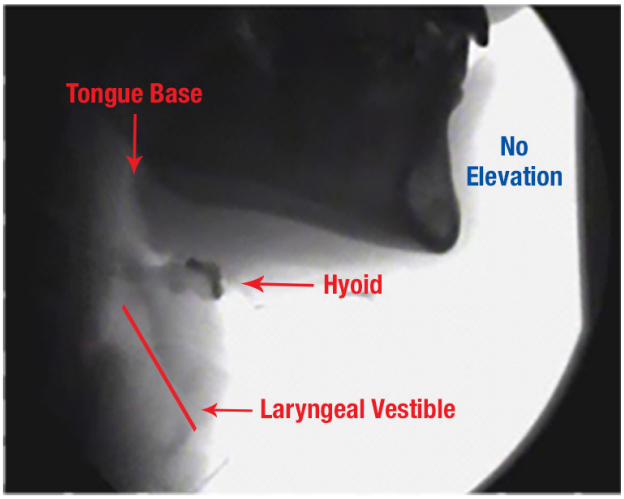
ESP wins in every comparison.

	Ampcare ESP	VitalStim
Pulse rate/frequency	**30 Hertz**	80 Hertz
Pulse duration	**50 µsec or 250 µsec**	350 µsec
Intensity/amplitude	**0-100 milliamps (mA)**	0-25 milliamps (mA)
Duty cycle / On and Off time	**5 sec on/25 sec off, 5/20, 5/15**	59 seconds on / 1 second off
Treatment time	**30 minutes**	60 minutes
Exercise Protocol	**Resistive exercise with RPD***	None
Unit warranty	**2 year**	1 year
Hyoid Displacement[1,2]	**Elevation**	Depression

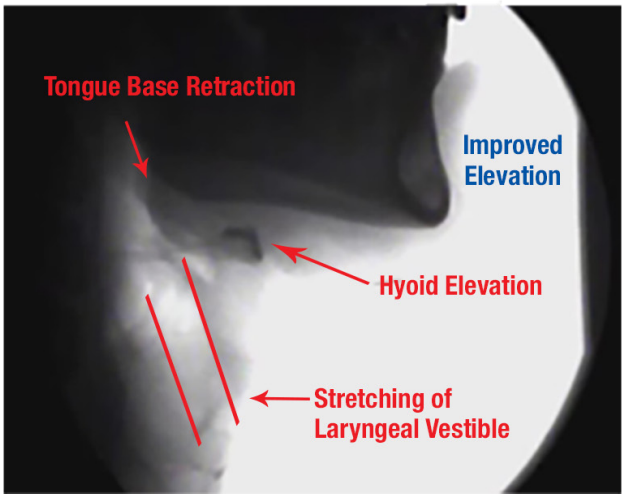
*Restorative Posture Device

MOVEMENT IN THE RIGHT DIRECTION

Patient at Rest



Patient with ESP



ESP and E Series Electrodes can move the hyoid and larynx up and forward without food and liquid trials.[3]

Activating VitalStim over the laryngeal and submental regions of the throat has shown to lower the hyoid and larynx, reducing airway protection and placing some healthy volunteers and patients at increased risk of aspiration.[1,2] When stimulating only the submental region, no appreciable elevation was noted in healthy volunteers at rest.[1]

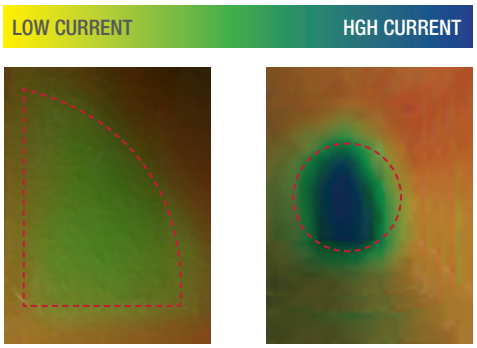
DESIGNED FOR COMFORT AND CURRENT

The pie-shaped E Series Electrode ensures proper placement and easily fits under the chin to evenly distribute the current and improve patient comfort.

Ampcare E Series Electrode

Evenly distributes electrical current to improve comfort.

- 4 pie-shaped electrodes
- Reusable or single use



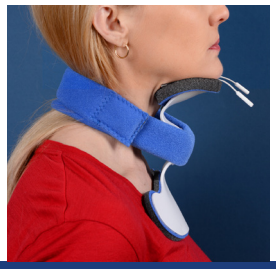
VitalStim Standard Electrode

Concentrates distribution to a hotspot, creating a painful stimulus.

- 4 round electrodes
- Single use only

GOOD POSTURE MATTERS

Paired with the Restorative Posture Device and exercise protocol, ESP utilizes postural strategies to improve swallow function and double the activation of the Hyolaryngeal Muscles.[4]



With Ampcare ESP, SLPs can treat more patients and improve the quality of care for those struggling with dysphagia.

REFERENCES

1. Ludlow C.L., Wright-Harp W., Martin S. & Safi M. (2010). Evaluation of submental stimulation in healthy volunteers. Aerodigestive Tract Functions Conference, Madison, WI.
2. Humbert, I. A., et al. (2006). The effect of surface electrical stimulation on hyo-laryngeal movement in normal individuals at rest and during swallowing. J Appl Physiol, 101, 1657-1663.
3. Ludlow, C. L., et al. (2007). Effects of surface electrical stimulation both at rest and during swallowing in chronic pharyngeal dysphagia. Dysphagia, 22, 1-10.
4. Watts, C. R. (2013). Measurement of Hyolaryngeal Muscle Activation Using Surface Electromyography for Comparison of Two Rehabilitation Dysphagia Exercises. Arch of Phys. Med. and Rehab, 94:2542-48.

Ampcare

Ampcare ESP Dysphagia Therapy System

- ES Stimulation Unit
- E Series Electrode
- Restorative Posture Device

ES STIMULATION UNIT

- Cleared by the FDA
- The only hand-held unit with adjustable parameters for the treatment of dysphagia
- Adjustable parameters to manage patient comfort
- Multiple treatment settings
- Visible muscle contraction
- 30-minute treatment protocol

E SERIES ELECTRODE

- FDA-cleared, patented electrode and the most economical
- Reusable, single-patient use
- Shape ensures proper placement
- Disperses current evenly for added comfort
- Only 2 placements – facial and submental
- Available in Adult and Youth sizes

RESTORATIVE POSTURE DEVICE

- Resistive exercise protocol
- Establishes the ideal head and neck position; maintains placement of E Series Electrodes
- Comfortable, contoured fit
- Allows for optimal laryngeal and pharyngeal movement

ASHA CE
APPROVED PROVIDER

swallowtherapy.com