Results of Topic Selection Process & Next Steps

- The topic, Electrical Stimulation for the Treatment of Foot Drop, is not feasible for a full systematic review due to the limited data available at this time.
- This topic could potentially be considered for new research in comparative effectiveness.

Topic Description

Nominator(s): Individual

Nomination Summary:

Since high-tech interventions have recently become available to treat symptoms of brain injuries, such as foot drop, clinicians are faced with decisions regarding whether or not these high-tech interventions are more effective than other traditional low-tech interventions. The nominator is specifically interested in the effectiveness of electrical stimulation (e-stim) in treating foot drop in patients who experienced a brain injury in the previous five years.

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Population(s): Patients with a non-progressive brain injury (e.g., cardiovascular accident [stroke], traumatic brain injury [TBI]) within the previous five years resulting in foot drop

Intervention(s): E-stim (temporary use as part of therapy and long-term use) **Comparator(s):** Somatic education (e.g., Hanna Somatic Education, Feldenkrais Method); other interventions such as ankle foot orthoses, physical therapy, or surgery **Outcome(s):** Daily activities of living, functional status, quality of life, body function, functional mobility (timed up and go), extent of dorsiflexion, walking endurance (6minute walk test), walking speed, balance (Berg balance scale, functional reach test). falls and other adverse events

Timing: Treatment initiated within five years of brain injury

Key Questions from Nominator: Does the use of e-stim on the lower extremity have any effect on foot drop in people with

brain injury (e.g., stroke or TBI)?

The nominator was also specifically interested in somatic education as a comparator to e-stim. However, based on a preliminary scan of the literature, we found limited evidence related to treatment of foot drop with somatic education compared to e-stim. Therefore, a broader set of comparators was considered for this review.

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Considerations

- The topic meets EHC Program selection criteria. (For more information, see http://effectivehealthcare.ahrq.gov/index.cfm/submit-a-suggestion-for-research/how-are-research-topics-chosen/
- This topic is important due to the current challenge faced by providers regarding whether the high-tech intervention of e-stim is more effective than other interventions such as ankle foot orthoses, physical therapy, or surgery.
- Only a small number of studies have been conducted in recent years comparing the use of e-stim to other interventions in patients with foot drop resulting from brain injuries. Most of these focus primarily on patients who have had a stroke. Our search did not yield any studies that compared e-stim to somatic education. Therefore, this topic is not feasible for a full systematic review due to the limited data at this time.

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