The Use of Surface Electromyography (SEMG) as a Component of Speech Pathology Intervention for Paradoxical Vocal Fold Motion: A Case Study Nicole Scalera, B.S. Eileen Gilroy, M.S. CCC/SLP

Clinical Profile

• Client: 18 year old female track athlete with background of unsuccessful treatment of exercise induced asthma, subsequently diagnosed with PVFM. Symptoms: difficulty breathing during physical exertion and vomiting after running.

Purpose

To report the effectiveness of sEMG (surface electromyography) as a clinical component of a speech pathology program for the treatment of paradoxical vocal fold motion. (PVFM)

Procedure

Treatment: Weekly 45 minute therapy sessions for 10 weeks

- Client journal

- baseline mean uV value of 27.4 uV.

The results of this single subject case study have appeared to indicate that the use of sEMG may be beneficial as a component of a speech pathology program in the treatment of PVFM. Continued investigation in this area of treatment is warranted.

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Hypothesis

treatment of dysphagia provide objective data associated with PVFM.



• Progressive muscle relaxation exercises to decrease overt tension