

ENT Summer Research Project Posting

<p>Project Title: Voice outcomes of laryngeal electromyography guided vocal fold injections</p>
<p>Description of Project: (maximum 250 words)</p> <p>Glottal insufficiency from vocal fold paralysis or presbyphonia is a common disorder that can cause hoarseness, dysphagia, and aspiration. Vocal fold (VF) injections of absorbable materials, such as hyaluronic acid, are a standard procedure to improve these symptoms. These procedures can be done in the operating room or in the office with local anesthetic. Office-based laryngeal electromyography (LEMG)-guided VF injections were first reported in the literature in 2012 by a group in Taiwan. Potential benefits of this procedure include avoiding the usage of general anesthesia, eliminating the need for laryngoscopy, and removing the need for an assistant. There have been only a handful of LEMG-guided VF injection studies, and no studies published on this technique in North America.</p> <p>The purpose of this study is to assess the voice outcomes of LEMG-guided VF injections for glottal insufficiency. A secondary objective is to study the complication and completion rates of this procedure, and to determine if any factors are associated with an improved voice outcome with this technique.</p> <p>This study is a retrospective case cohort study.</p> <p>The primary endpoints includes:</p> <ul style="list-style-type: none">• voice handicap index-10 (VHI-10), maximum phonation time (MPT), perceptual analysis of voice (GRBAS), fundamental frequency, and stroboscopic assessment
<p>Student's Role in the Project: (maximum 200 words)</p> <p>The student will work directly under the supervision of the Principal Investigator. The student will be exposed to the entire life cycle of a research study. The student will be involved with a literature review, data collection, statistical analysis, presentation, and manuscript writing. The student will gain in-depth knowledge of the potential applications of electromyography for office procedures and the importance of technological advancements in relation to clinical practice research. Other skills gained will include, but are not limited to, resource allocation, time management, creating a patient database, data analysis / interpretation, and improvement of written and oral communication of scientific findings. This ability to effectively disseminate scientific findings will also be developed by working cooperatively with UBC statisticians, who will assist with data analysis and interpretation. The student will be encouraged to submit the project for presentation at a national meeting and be involved with manuscript preparation.</p>
<p>Does this project require ethics approval? (Yes or No) No - REB has deemed this project a quality assurance study.</p>
<p>What are the plans for research funding? (select the choices)</p> <p>a) Apply for UBC Faculty of Medicine Summer Student Research Program (1st and 3rd years – Deadline Feb 15, 2019)</p> <p>https://www.med.ubc.ca/current-learners/summer-student-research-program/</p>
<p>Research Location: Vancouver General Hospital</p>

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