

## Vibrotactile stimulation of the larynx to treat unexplained chronic cough

Status: Recruiting

### Eligibility Criteria

Age: 18 Years and over

This study is NOT accepting healthy volunteers

#### Inclusion Criteria:

- Adults aged 18-80 - >8 weeks of non-productive cough - Cough visual analogue scale (VAS): Rating of 40 or greater on a 0-100 cough severity scale - CXR or chest CT negative (collected as part of routine clinical care); no time limit on imaging (if available) - Clinical impression that untreated or inadequately treated gastroesophageal, pulmonary, and/or sinonasal source is not primary cough etiology - Ability to provide informed consent and independently complete questionnaires - Ability to read and speak English

#### Exclusion Criteria:

- Current or recent (quit < 3 months ago) smoking - Known currently infectious cause for cough (e.g., TB, pertussis, COVID) - History of known or suspected aspiration pneumonia - Neuromuscular impairment that may affect cough/laryngeal sensation and/or function (e.g., multiple system atrophy, Parkinson, CVA) - Untreated carotid disease - Electronic implants (e.g., pacemaker) - Specific medication use conditions, including: - Taking ACE-inhibitors - Around the clock use of benzodiazepines - Anticipate new medications targeting cough during the period of the study - If on neuromodulators and/or opioids, anticipate change in dose during the period of the study - Currently doing speech therapy for cough - BMI > 30 (for transmission of VTS through soft tissue) - Contraindications to safe VTS device use, including: - Allergy to adhesives - Unable to manipulate device - Recent intubation/neck surgery (within 8 weeks) - Drug/alcohol dependency or abuse - Pregnant - No regular access to wifi internet

### Conditions & Interventions

#### Conditions:

Breathing, Lung & Sleep Health, Ear, Nose & Throat

#### Keywords:

Clinics and Surgery Center (CSC), chronic cough, cough, larynx, vibrotactile stimulation

### More Information

**Description:** This is a study of adults with unexplained chronic cough between 18-80 years old. This study is trying to determine whether a noninvasive vibrotactile stimulation device can help reduce cough symptoms.

**Contact(s):** Anna Sombrio - sombr004@umn.edu

**Principal Investigator:** Stephanie Misono

**Phase:** Pilot

**IRB Number:** STUDY00012174

**System ID:** ENT-2020-28903

Thank you for choosing StudyFinder. Please visit <http://studyfinder.umn.edu> to find a Study which is right for you and contact [sfinder@umn.edu](mailto:sfinder@umn.edu) if you have questions or need assistance.