

Acoustic analysis of voice, speech, and breath sounds in subglottic stenosis

Status: Recruiting

Eligibility Criteria

Sex: Male or Female

Age Group: 18 years and over

This study is also accepting healthy volunteers

Inclusion Criteria:

- at least 18 years of age - diagnosis of subglottic stenosis by otolaryngologist and/or pulmonologist - no known laryngeal or pulmonary comorbidities potentially contributing to voice or breathing problems (except asthma) - able to read, write, and communicate in English - Healthy Volunteers who will be matched by age & sex to study participants: at least 18 years of age, no known primary laryngeal or pulmonary comorbidities, no symptoms of shortness of breath and able to read, write, and communicate in English

Exclusion Criteria:

- current voice/resonance, breathing, or swallowing disorder - women who are pregnant - current upper respiratory infection - Healthy Volunteers: women who are pregnant or upper respiratory infection or obstruction

Conditions & Interventions

Conditions:

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

Keywords:

Clinics and Surgery Center (CSC), subglottic stenosis, SGS, airway narrowing

More Information

Description: This study is about understanding how subglottic stenosis (narrowing within the airway) affects voice, speech, and breathing sounds. Changes in airflow from airway narrowing can alter how the voice sounds, how speech is timed, and how breaths are taken during speaking. By using advanced, noninvasive sound analysis, we hope to identify patterns that may help detect airway narrowing earlier and track improvement after treatment.

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