

Laryngology of voice disorders: Diagnosis and management.

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Introduction

The field of laryngology has witnessed significant advancements in recent years, leading to a more profound understanding and improved management of voice disorders. This progress spans from diagnostic precision to therapeutic efficacy, underscoring a multidisciplinary approach to patient care. One area of substantial development involves the diagnosis and management of voice disorders, with a focus on laryngology and the intricate pathology of the vocal folds. Recent research has emphasized the critical role of accurate diagnosis and tailored treatment strategies, incorporating innovations in imaging, acoustics, and surgical techniques. The growing importance of interdisciplinary collaboration in addressing diverse vocal fold abnormalities, ranging from benign growths to malignant conditions, is also a key theme, aiming to enhance patient outcomes and voice quality [1]. Furthermore, the study of benign vocal fold lesions has been greatly enriched by comprehensive overviews of their origins, clinical presentations, and current therapeutic options. The integration of precise diagnostic tools, such as stroboscopy and high-speed imaging, is crucial for guiding surgical interventions aimed at preserving maximal vocal fold vibratory function. The profound impact of these lesions on an individual's quality of life necessitates a patient-centered approach to care [2]. Artificial intelligence (AI) is emerging as a transformative force in the objective assessment of voice disorders. AI algorithms are demonstrating high accuracy in analyzing acoustic features to detect and quantify vocal fold pathologies, which holds immense potential for early diagnosis and effective treatment monitoring. The implications of AI for enhancing diagnostic consistency and accessibility within laryngology are significant [3]. Phonosurgery continues to be a cornerstone in the management of various vocal fold pathologies, with a dedicated focus on techniques that preserve or restore vibratory function. A thorough review of evidence supporting different surgical approaches, including microdissection, laser surgery, and injection laryngoplasty, alongside their respective outcomes and potential complications, is essential. The pivotal role of a multidisciplinary team in optimizing surgical results cannot be overstated [4]. Our understanding of the aging larynx has also deepened, with specific attention paid to the impact of aging on vocal fold structure and function, contributing to the comprehension of presbyphonia. Research in this area explores the physiological

changes characteristic of the aging larynx and reviews both conservative and surgical interventions designed to ameliorate voice quality in older adults. This underscores the necessity of developing individualized management plans that address the unique challenges presented by geriatric voice disorders [5]. Functional voice disorders, often linked to psychogenic factors or vocal misuse, present distinct diagnostic and management challenges. Evidence-based treatment approaches, including voice therapy and counseling, are vital. A critical aspect of managing these conditions is the precise differentiation between functional disorders and organic pathologies to ensure appropriate and effective patient care [6]. Vocal fold paralysis and paresis represent significant concerns, and recent literature offers updated insights into their etiologies, diagnostic pathways, and therapeutic interventions. A comprehensive review covers conservative management strategies alongside surgical options such as nerve grafting, laryngeal reinnervation, and medialization procedures, discussing their specific indications and their effectiveness in improving both voice and airway function [7]. In the realm of oncology, advancements in the management of laryngeal cancer, particularly concerning vocal fold involvement, are noteworthy. Current diagnostic modalities, including advanced imaging and biopsy techniques, are evolving, as is the treatment landscape, with a growing emphasis on organ-preservation strategies, minimally invasive surgery, and targeted therapies. The crucial role of laryngology in enhancing oncologic outcomes and facilitating voice rehabilitation is increasingly recognized [8]. Finally, the intricate relationship between reflux disease and vocal fold health is being further elucidated. Research delves into the pathophysiology of laryngopharyngeal reflux (LPR) and its clinical manifestations, including voice alterations and pharyngeal discomfort. A review of diagnostic criteria and evidence-based treatment strategies highlights the importance of medical management and lifestyle adjustments for patients experiencing reflux-induced voice disorders [9]. Another area of significant focus is the management of vocal fold cysts, encompassing both intracordal and mucus retention cysts. Diagnostic techniques such as stroboscopy and videolaryngoscopy are pivotal, and surgical approaches for cyst excision prioritize methods that preserve the vocal fold vibratory mucosa. The integral role of post-operative voice therapy in achieving optimal outcomes is also a critical consideration [10].

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Conclusion

This collection of research provides a comprehensive overview of voice disorders from a laryngological perspective. It covers advancements in the diagnosis and management of various vocal fold pathologies, including benign lesions, functional disorders, vocal fold paralysis, laryngeal cancer, and age-related voice changes. The role of emerging technologies like artificial intelligence in diagnosis and the efficacy of phonosurgery are discussed. Furthermore, the impact of conditions like laryngopharyngeal reflux and the management of vocal fold cysts are addressed. The overarching themes emphasize accurate diagnosis, personalized treatment strategies, the importance of interdisciplinary collaboration, and the preservation of vocal fold function for improved patient outcomes.

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