

Improvement of Vocal Pathologies Diagnosis Using High-Speed Videolaryngoscopy

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Abstract

Introduction The study of the dynamic properties of vocal fold vibration is important for understanding the vocal production mechanism and the impact of organic and functional changes. The advent of high-speed videolaryngoscopy (HSV) has provided the possibility of seeing the real cycle of vocal fold vibration in detail through high sampling rate of successive frames and adequate spatial resolution.

Objective To describe the technique, advantages, and limitations of using HSV and digital videokymography in the diagnosis of vocal pathologies.

Methods We used HSV and digital videokymography to evaluate one normophonic individual and four patients with vocal fold pathologies (nodules, unilateral paralysis of the left vocal fold, intracondylar cyst, and adductor spasmodic dysphonia). The vocal fold vibration parameters (glottic closure, vibrational symmetry, periodicity, mucosal wave, amplitude, and glottal cycle phases) were assessed.

Results Differences in the vocal vibration parameters were observed and correlated with the pathophysiology.

Conclusion HSV is the latest diagnostic tool in visual examination of vocal behavior and has considerable potential to refine our knowledge regarding the vocal fold vibration and voice production, as well as regarding the impact of pathologic conditions have on the mechanism of phonation.

Keywords

- stroboscopy
- voice disorders
- vocal cords
- vibration
- dysphonia
- laryngoscopy

Introduction

The various causes of dysphonia cannot be properly differentiated without knowledge of the anatomy and physiology of phonation. Furthermore, visualization of the larynx and vocal folds vibration is essential to the diagnosis. Alterations in vocal fold vibration can contribute to the development of laryngeal pathologies or can be the result of such pathologies, having, in either case, a direct impact on the acoustic quality of the voice.¹

Vocal folds vibrate at a frequency of 80 to 1,000 cycles per second.² As the human eye is capable of perceiving no more

than five images per second,³ it is impossible to evaluate the vibration of the vocal folds during phonation.

According to Talbot's law, an image projected on the retina will persist for ~0.2 seconds. When successive images are presented at intervals of less than 0.2 seconds, they merge and our retina sees the movement as stationary.^{4,5} Based on these principles, videolaryngostroboscopy has been proved to be an essential tool to infer vocal fold vibration. Video-stroboscopy involves pulsing light at a frequency that is of 0.5 Hz or 1.5 Hz lower than the fundamental frequency. As the frequency of the flashes is slightly less than the vibration

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Vocal Pathologies Diagnosis Treatment And Case Studies

Anthony H. V. Schapira



Vocal Pathologies Diagnosis Treatment And Case Studies:

Vocal Pathologies James Paul Dworkin, Robert J. Meleca, 1997 Accompanied by speech samples on two audio compact disks this book is an invaluable resource for professionals and students alike Features two free audio CDs containing speech samples fifty one case studies which examine the history examination findings diagnosis and treatment of each patient explores the applications of acoustic speech aerodynamic and videostroboscopic instrumentation in both the differential diagnoses and treatment of disorders provides detailed updated description of phonosurgical alternatives and presents extensive behavioral voice therapy techniques for benign and malignant disorders incorporating the use of decision tree diagrams and log sheets for recording and teaching patient responses to intervention This new and innovative package is of widespread appeal to academicians clinical supervisors speech language pathologist and otolaryngologists Vocal Pathologies

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