

Chapter 50

Voice Restoration after Total Laryngectomy

David E. Eibling

Loss of voice is the greatest disability for most patients after total laryngectomy. Although the presence of a tracheostoma and the associated anterior neck deformity pose a cosmetic and functional deformity, it is loss of a normal speaking voice that is most debilitating to the patient, both functionally and emotionally. As a result of the severity of this disability and its effect on social interaction, efforts to rehabilitate the voice after total laryngectomy have been made almost since the first laryngectomy was performed more than a century ago.

Acoustic signals that are interpreted as voice are a complex compilation of varying frequencies created by a number of anatomic structures. The larynx is responsible for the fundamental vibratory frequency of the sound produced, as well as the associated interruptions and alterations in airflow. Airflow is created by expiratory lung volume, and the complexities of articulated speech and resonance are produced in the air passages superior to the larynx. Therefore, any means that can approximate normal vibratory airflow function proximal to the articulators has the possibility of resulting in understandable speech. All forms of speech rehabilitation after laryngectomy rely on this principle.

TYPES OF SPEECH REHABILITATION

Speech rehabilitation after total laryngectomy can be subdivided into three major categories:

1. Esophageal speech
2. Prosthetic artificial oscillators
3. Tracheopharyngeal shunts or fistulas

Esophageal Speech

Esophageal speech is a learned technique in which air is swallowed ("injected") into the esophagus and then allowed to escape through the pharynx. Appropriate tensing of the pharyngeal walls during expiratory airflow

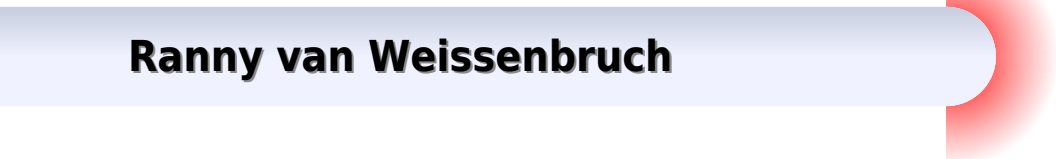
results in vibration of the pharyngeal walls, which creates sound. Esophageal speech is typically of lower pitch than normal speech frequencies because of characteristics of the pharyngeal wall. The advantages of this technique are that it requires no surgical procedure, prosthesis, or cumbersome hand motions. However, few patients who have undergone laryngectomy are able to achieve usable esophageal speech, and fewer than one in five achieve speech acceptable for social interaction. Extensive training is required by most people, and individuals vary widely in their ability to use this training to rehabilitate their speech; nonetheless, despite recent advances it remains useful for those who are able to master it. A few patients are able to use esophageal speech as their sole speech modality, but most retain other forms of speech as a backup.

Prosthetic Oscillators

Electronic devices supplying vibration into the oral cavity will permit speech, albeit monotone and machine-like. This is clearly the easiest method to use and, for many patients, remains their sole form of speech after total laryngectomy. The devices can be divided into two types: those that cause the pharyngeal wall to vibrate and result in secondary vibration of the air column and those that cause vibrations within the oral cavity via a connecting tube (Fig. 50-1). One (and perhaps more) of the instruments available commercially can be modified to permit either vibration of the oral cavity tissues externally or entrance of vibrating air into the oral cavity. As in many other skills, speech production by these techniques is learned by experience, and patients vary widely in their ability to develop useful communication. An externally applied device will not be satisfactory in a patient whose pharynx has been reconstructed with bulky flaps or who has undergone radiotherapy because of the increased rigidity of the tissues and resistance to vibration.

Voice Restoration After Total Laryngectomy

Ranny van Weissenbruch



Voice Restoration After Total Laryngectomy:

VOICE RESTORATION AFTER TOTAL LARYNGECTOMY: CURRENT SCIENCE AND FUTURE PERSPECTIVES

Rehan Kazi, 2009-04 Post laryngectomy rehabilitation has generated tremendous interest in recent times owing to the development of innovative prosthetic devices and other appliances aimed at making life more comfortable for the laryngectomee. This book addresses not only the very essential function of voice rehabilitation but also other equally important aspects such as pulmonary, olfactory and psycho-social rehabilitation as well as quality of life issues after laryngectomy. With more and more ENT head and neck surgeons performing laryngectomies on a regular basis, this book aims to provide both the trainees and practicing surgeons a comprehensive and practical guide to the total rehabilitation of these patients.

Voice Restoration After Total Laryngectomy Ranny van Weissenbruch, 1996 **Tracheoesophageal Voice Restoration Following Total Laryngectomy** Eric D. Blom, Mark Irwin Singer, Ron Hamaker, 1998 Explores clinical issues of the 20-year-old tracheoesophageal puncture technique which allows for esophageal speech with pulmonic air. After a brief overview of the history of the technique, topics discussed include preoperative assessment, methods of patient selection, considerations, surgical techniques of primary and secondary puncture, surgical approaches to laryngopharyngectomy, surgical complications, postoperative therapeutic issues, the preservation of tracheoesophageal prostheses and the use of botulinum neurotoxin to nonsurgically optimize the pharynx muscles for alaryngeal phonation. Annotation copyrighted by Book News Inc, Portland, OR.

Voice Restoration After Total Laryngectomy Ranny van Weissenbruch, 1996 **Surgery and Prosthetic Voice Restoration After Total and Subtotal Laryngectomy** Jésus Algaba, 1996 Hardbound. Surgical and prosthetic voice restoration after total laryngectomy has been very controversial over the last few years, and many specialists question its efficiency, but there is no doubt that in the last 15-20 years the number of surgeons practicing this type of surgical operation has increased rapidly, and we now think that its efficiency is very evident. The number of prosthesis designs has increased due to greater usage. The results have been getting better, and the number of sceptics has reduced. This volume covers recent advances in subtotal reconstructive surgery, and its results have been presented as an alternative to total laryngectomy. Other interesting topics such as artificial larynx, laryngeal transplants or the laser in laryngeal carcinomas have been dealt with adequately. The congress has shown the importance, interest and acceptance of these surgical and prosthetic techniques for voice restoration. These proceedings will be a

Head & Neck Surgery--otolaryngology Byron J. Bailey, Jonas T. Johnson, Shawn D. Newlands, 2006 Newly revised and updated, this comprehensive, easy-to-use two-volume otolaryngology text is now in its Fourth Edition. More than 30 new chapters are included that reflect advances in the field, such as outcomes and evidence-based medicine, surgical management of nasal valve collapse and choanal atresia, immunology and allergy, allergic and non-allergic rhinitis, complications of rhinosinusitis, management of dysphagia, radiographic examination of the upper aerodigestive tract, endoscopic evaluation of the upper aerodigestive tract, cosmetic uses of Botox.

and more Coverage includes both adult and pediatric otolaryngology All chapters are written by distinguished world renowned authorities and contain summary highlights boxes summary tables and end of chapter reviews More than 2 500 illustrations complement the text

Clinical Care and Rehabilitation in Head and Neck Cancer Philip C. Doyle, 2019-03-21

Malignancies involving structures of the head and neck frequently impact the most fundamental aspects of human existence namely those functions related to voice and speech production eating and swallowing Abnormalities in voice production and in some instances its complete loss are common following treatment for laryngeal voice box cancer Similarly speech eating and swallowing may be dramatically disrupted in those where oral structures e g the tongue jaw hard palate pharynx etc are surgically ablated to eliminate the cancer Consequently the range and degree of deficits that may be experienced secondary to the treatment of head and neck cancer HNCa are often substantial This need is further reinforced by the Centers for Disease Control and Prevention who have estimated that the number of individuals who will be newly diagnosed with HNCa will now double every 10 years This estimate becomes even more critical given that an increasing number of those who are newly diagnosed will be younger and will experience the possibility of long term survival post treatment Contemporary rehabilitation efforts for those treated for HNCa increasingly demand that clinicians actively consider and address multiple issues Beyond the obvious concerns specific to any type of cancer i e the desire for curative treatment clinical efforts that address physical psychological communicative and social consequences secondary to HNCa treatment are essential components of all effective rehabilitation programs Comprehensive HNCa rehabilitation ultimately seeks to restore multiple areas of functioning in the context of the disabling effects of treatment In this regard rehabilitation often focuses on restoration of function while reducing the impact of residual treatment related deficits on the individual s overall functioning well being quality of life QOL and ultimately optimize survivorship Regardless of the treatment method s pursued for HNCa e g surgery radiotherapy chemoradiation or combined methods additional problems beyond those associated with voice speech eating and swallowing frequently exist For example post treatment changes in areas such as breathing maintaining nutrition limitations in physical capacity because surgical reconstruction such as deficits in shoulder functioning concerns specific to cosmetic alterations and associated disfigurement and deficits in body image are common Those treated for HNCa also may experience significant pain depression stigma and subsequent social isolation Concerns of this type have led clinicians and researchers to describe HNCa as the most emotionally traumatic form of cancer It is therefore essential that clinicians charged with the care and rehabilitation of those treated for HNCa actively seek to identify acknowledge and systematically address a range of physical psychological social and communication problems Efforts that systematically consider this range of post treatment sequelae are seen as critical to any effort directed toward enhanced rehabilitation outcomes Actively and purposefully addressing post treatment challenges may increase the likelihood of both short and long term rehabilitation success in this challenging clinical population Current information suggests that successful clinical outcomes for those with

HNCA are more likely to be realized when highly structured yet flexible interdisciplinary programs of care are pursued. Yet contemporary educational resources that focus not only on management of voice speech eating and swallowing disorders but also address issues such as shoulder dysfunction due to neck dissection the significant potential for cosmetic alterations can offer a much broader perspective on rehabilitation. Contemporary surgical treatment frequently involves reconstruction with extensive procedures that require donor sites that include both soft tissue from a variety of locations e.g. forearm thigh etc as well as bone e.g. the scapula. Collectively resources that address these issues and many other concerns and the resultant social implications of HNCA and its treatment can serve to establish a comprehensive framework for clinical care. Consequently providing a highly specialized and comprehensive educational resource specific to HNCA rehabilitation is currently needed. The proposed edited book is designed to address this void in a single authoritative resource that is also accessible to the clinical readership. Integral to this proposed book is information that guides clinical approaches to HNCA rehabilitation in addition to offering emphasis on the direct impact of changes in voice speech and swallowing and the impact of such losses on outcomes. Finally while several other published sources currently exist see attached list the emphasis of these books is directed either toward the identification and diagnosis of malignant disease clinical and surgical pathology associated efforts directed toward biomedical aspects of cancer and its treatment or those with a focus on a single clinical problem or approach to rehabilitation. Therefore the content of the proposed multi chapter text centers on delivering a systematically structured comprehensive and clinically oriented presentation on a range of topics that will provide readers at a variety of levels with a strong well integrated and empirically driven foundation to optimize the clinical care of those with HNCA. The primary audience for this textbook is undergraduate and graduate level students in Speech Language Pathology as well as practitioners especially hospital based practitioners in Speech Language Pathology other key audiences include junior and senior level otolaryngology residents and fellows translational researchers in head and neck cancer related medical specialists e.g. radiation oncology oncology nurses and potentially other rehabilitation professionals such as occupational therapists counseling psychologists social workers and rehabilitation counselors.

Function Preservation in Laryngeal Cancer, An Issue of Otolaryngologic Clinics of North America Babak Sadoughi, 2015-08-10. Cancers of the larynx while survival outcomes increase result in massive treatment damage from radiation and surgery. Patients often lose ability to speak and to eat. Preserving the larynx is a fine balance of cancer eradication life extension and quality of life. This issue of Otolaryngologic Clinics led by Dr Babak Sadoughi should be of interest to Otolaryngologists Oncologists Radiologists and Speech Therapists. The issue approach reaches all the most important aspects of diagnosing and treating the patient with laryngeal cancer with a focus on preserving the voice in early laryngeal cancer and preserving and restoring function in advanced laryngeal cancer. Topics include Functional Anatomy and Oncological Barriers of the Larynx Evaluation of the Dysphonic Patient Role of Advanced Laryngeal Imaging in Glottic Cancer Laryngeal Function after Radiation Therapy.

Management of Dysphonia after Radiation Therapy Contemporary Surgical Management of Early Glottic Cancer Voice Prognosis after Transoral Laser Microsurgery of the Larynx Voice Rehabilitation after Transoral Laser Microsurgery of the Larynx Quality of Life after Conservation Surgery for Laryngeal Cancer Salvage Conservation Surgery of the Larynx Airway Preservation in Ablative Laryngeal Surgery Voice Restoration after Total Laryngectomy A special article for Residents written by a Resident emphasizes essential take home messages for laryngeal function preservation diagnosis and treatment

Operative Otolaryngology: Head and Neck Surgery E-Book Eugene N. Myers, 2008-08-14 This brand new edition in a completely updated 2 volume set places the full range of operative otolaryngologic procedures at your disposal from discussions on why a procedure should be performed to the latest surgical techniques to post operative management and outcomes Dr Eugene Myers along with his esteemed expert contributors bring you the absolute latest in the field with thirty new chapters and expanded coverage on face lift blepharoplasty the ethmoid sinus frontal sinus and orbital surgery to help you face even your toughest challenges What's more a new full color design including more than 1 300 new full color drawings and photographs and 90 minutes of surgical video clips available online provide you with superb visual guidance And as an Expert Consult title this thoroughly updated 2nd edition comes with access to the complete contents online fully searchable enabling you to consult it rapidly from any computer with an Internet connection Aids in the evaluation and management of a complete spectrum of head and neck problems Offers pearls and pitfalls at the end of each chapter to help you avoid complications Uses a logical consistent layout from chapter to chapter to include patient selection pre operative planning surgical technique and post operative management Provides online access to fully searchable text and step by step surgical video clips enabling you to consult it rapidly from any computer with an Internet connection and provide you with superb visual guidance Presents several new associate editors giving you fresh perspectives in a growing field Offers the expertise of otolaryngologists plastic surgeons oral and maxillofacial surgeons neurological surgeons and ophthalmologists who provide unsurpassed multidisciplinary coverage on everything from pre operative diagnosis and evaluation through step by step descriptions of surgical techniques to post operative management Features 30 new chapters including Office Based Evaluation and Treatment many new chapters on endoscopic approaches and management of complications and eight new chapters on laryngology as well as expanded coverage of face lift blepharoplasty the ethmoid sinus frontal sinus and orbital surgery to keep you ahead of the curve Covers the newest techniques such as transnasal endoscopic sinus surgery endonasal endoscopic management of tumors at the base of the skull using the two team approach the use of Botox injections for various conditions of the larynx and endoscopic surgery of the thyroid and parathyroid glands to help you enhance your clinical skills Includes completely reorganized chapters that feature complications headings and bulleted lists of pearls and pitfalls for ease of reference and to help you avoid mistakes Uses a new full color design with 1 300 new full color illustrations for easy reference Index Medicus ,2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject

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Table of Contents Voice Restoration After Total Laryngectomy

1. Understanding the eBook Voice Restoration After Total Laryngectomy
 - The Rise of Digital Reading Voice Restoration After Total Laryngectomy
 - Advantages of eBooks Over Traditional Books
2. Identifying Voice Restoration After Total Laryngectomy
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Voice Restoration After Total Laryngectomy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Voice Restoration After Total Laryngectomy
 - Personalized Recommendations
 - Voice Restoration After Total Laryngectomy User Reviews and Ratings
 - Voice Restoration After Total Laryngectomy and Bestseller Lists
5. Accessing Voice Restoration After Total Laryngectomy Free and Paid eBooks

- Voice Restoration After Total Laryngectomy Public Domain eBooks
- Voice Restoration After Total Laryngectomy eBook Subscription Services
- Voice Restoration After Total Laryngectomy Budget-Friendly Options
- 6. Navigating Voice Restoration After Total Laryngectomy eBook Formats
 - ePub, PDF, MOBI, and More
 - Voice Restoration After Total Laryngectomy Compatibility with Devices
 - Voice Restoration After Total Laryngectomy Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Voice Restoration After Total Laryngectomy
 - Highlighting and Note-Taking Voice Restoration After Total Laryngectomy
 - Interactive Elements Voice Restoration After Total Laryngectomy
- 8. Staying Engaged with Voice Restoration After Total Laryngectomy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Voice Restoration After Total Laryngectomy
- 9. Balancing eBooks and Physical Books Voice Restoration After Total Laryngectomy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Voice Restoration After Total Laryngectomy
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Voice Restoration After Total Laryngectomy
 - Setting Reading Goals Voice Restoration After Total Laryngectomy
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Voice Restoration After Total Laryngectomy
 - Fact-Checking eBook Content of Voice Restoration After Total Laryngectomy
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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