

TRACHEOESOPHAGEAL SPEECH: VOCAL REHABILITATION AFTER TOTAL LARYNGECTOMY.*

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ABSTRACT.

Treatment of laryngeal cancer has evolved over nearly 100 years and includes many methods to conserve the function of speech. It was understood from the inception of total laryngectomy that diversion of exhaled pulmonary air into the pharynx or esophagus would produce satisfactory speech. The effect on safe deglutition of the pharyngeal fistulae limited the wide applicability of these techniques.

The introduction of a silicone bivalve device for use in a tracheoesophageal tunnel permits large numbers of laryngectomies to use tracheoesophageal speech. Acoustic, intelligibility, and aerodynamic studies are described for four laryngectomies and reveal that this method more nearly approximates normal laryngeal speech than conventional esophageal speech. The criteria for contemporary treatment of laryngeal carcinoma are not altered by this rehabilitative method, and expected survival rates are not likely to be affected. The findings and analysis of this method of alaryngeal speech rehabilitation may have important implications for future therapy of laryngeal carcinoma.

Speech is a singular human trait that allows man to share his thoughts with others. It may be said that communication is the beginning of understanding. The earliest recognition of the larynx and its function for speech and respiration is attributed to Aristotle in *Historia Animalium* written in 400 B.C.¹

Although the larynx generates the sounds for speech, it is well known that this is not the primary function of this structure. Negus² interpreted the evolution of the larynx initially as a valve to protect the airway with later developmental modifications for olfaction, deglutition, regulation of intrathoracic pressures, and phonation. Pressman and Koloman³ later placed the major role of the larynx as that of a "protective sphincter" with tone production secondary to its primary function.

The incidence of laryngeal carcinoma is 1/100,000 population.⁴ Uncontrolled, it inexorably destroys the function of this organ, profoundly affecting speech, deglutition, and respiration. The therapy for this disease evolved over a 100 year period with numerous techniques proposed to preserve the ability to speak. The location of the neoplasm within the larynx and to contiguous structures affects the therapy and eventual outcome. The biological behavior of cancer influences decisions regarding surgery and radiation therapy. The importance of voice preservation led to the development of conservation laryngectomy procedures which permit adequate resection of the tumor and maintenance of the voice.

Total laryngectomy is used for patients whose tumor cannot be eliminated by a partial procedure or radiation therapy. Rehabilitation of these patients may consist of learning esophageal speech, an artificial larynx, or an additional operative procedure to restore continuity of the respiratory and

alimentary tracts. It is common for the individual who is affected by cancer of the larynx not only to suffer the ravages of this disease, but also to be burdened by the failure to regain speech. In the United States it is estimated that on an annual basis there are 10,900 new cases of laryngeal cancer and approximately one-half are treated by laryngectomy.⁵ No more than one-half successfully develop esophageal speech, and it is the fear of speech failure coupled with the anxieties of having cancer that has profound psychological effects on these patients.

HISTORICAL REVIEW.

Effective therapy for laryngeal carcinoma began in Europe in the second half of the 19th century. Total laryngectomy was conceptualized by Watson, Von Langenbeck, and Billroth⁶ by the mid 1860's. Vincenz Czerny,⁷ working as an assistant to Billroth, published a report of a successful canine laryngectomy by 1870, and suggested an artificial larynx which was a "T" shaped tube inserted into the trachea and pharynx. Theodor Billroth successfully performed the first total laryngectomy for carcinoma in 1873, and his associate Carl Gussenbauer constructed an artificial larynx for this patient who spoke 3 weeks postoperatively.⁸ Although the patient survived this early laryngectomy, he eventually succumbed a few months later to recurrent carcinoma.

Gussenbauer's device was a bifurcated tracheal tube incorporating a musical reed for sound production. These early instruments were designed to divert exhaled pulmonary air across the sound-producing reed and introduce it into a planned pharyngostoma for speech articulation (Fig. 1). Billroth demonstrated that a separate pharyngostoma and cracheostoma were necessary to diminish the problems of aspiration and sepsis. This decreased the formidable mortality of the procedure, reportedly as high as 50% of cases.⁹

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Speech Rehabilitation Of The Laryngectom

David Kirk



Speech Rehabilitation Of The Laryngectom:

The Enigmatic Realm of **Speech Rehabilitation Of The Laryngectom**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Speech Rehabilitation Of The Laryngectom** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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