



Case Report

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Efficacy of Voice Therapy in Total Thyroidectomy: A Single Case Study



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Abstract

Background: Thyroidectomy is known to cause changes in voice. However limited studies have been done examining the effects of voice therapy on persons with thyroidectomy.

Aim: The present study is aimed at garnering evidence for the efficacy of voice therapy post near total thyroidectomy.

Method: The participant was a thirty-six-year-old female client diagnosed as having Severe Hoarse Voice with right vocal cord paralysis secondary to near total thyroidectomy (multinodular goitre). A detailed voice evaluation was done followed by structured therapy techniques.

Results: The results revealed positive changes in the vocal behaviour of the subject pre- and post-therapy as revealed by qualitative and quantitative measures.

Conclusion: These findings support that voice therapy is crucial as a major treatment options to improve voice quality for individuals post thyroidectomy. Further research with more evidences in a greater number of clients is warranted in this area.

Keywords: Thyroidectomy; Voice; Multidimensional Voice Program

Introduction

Thyroidectomy is a surgical procedure which results in total or partial removal of the thyroid gland [1]. Thyroid gland produces thyroid hormone which has several physiological effects and is essential for normal growth, functioning, and development of various tissues as well as larynx [2]. As a result, thyroid gland diseases affect almost all structures engaged in voice production, such as larynx, trachea, laryngeal muscles and nerves [3]. Voice changes after thyroidectomy are often linked with recurrent (inferior) laryngeal nerve impairment and rarely with superior laryngeal nerve impairment [4]. Laryngeal nerve impairment can cause different vocal and laryngeal symptoms during thyroidectomy [5], such as: changes in voice, respiration, swallowing and coughing which is usually ineffective and silent [6]. Voice changes can vary from mild to severe aberrations or from dysphonia to aphonia. Studies have also reported that thyroidectomy affects the steadiness of the vocal tract which may lead to changes in voice [7]. The characteristics of vocal changes in patients who have undergone thyroidectomy mainly include symptoms such as vocal fatigue, reduced vocal range,

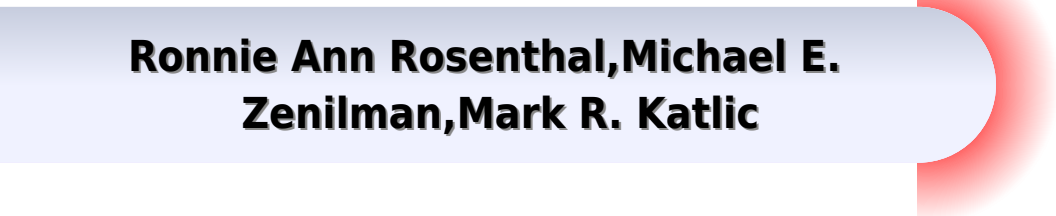
reduced speaking fundamental frequency, hoarseness, and reduced vocal strength [8]. Voice disorders after thyroidectomy can significantly affect the quality of life [9]. No matter how much individuals depend on their voice in their profession, quality of life is disrupted if they use their voice in everyday communication. In that way, dysphonia affects not only the professional, but also the social aspect of life. The above review indicates that objective and subjective evaluation of the patient's vocal state is required in patients who undergo thyroidectomy procedures. Since most of the studies deal with the diagnosis aspects, limited studies are done examining the effect of voice therapy on persons with thyroidectomy in the Indian context. The present study is aimed at garnering evidence for the efficacy of voice therapy post near total thyroidectomy.

The present study has the following objectives:

- To investigate and compare the qualitative measures using qualitative protocol, Consensus Auditory Perceptual Evaluation of Voice (CAPE-V) before and after 15 sessions of voice therapy.

Thyroidectomy Case Study

**Ronnie Ann Rosenthal, Michael E.
Zenilman, Mark R. Katlic**



Thyroidectomy Case Study:

Case Studies in Thyroid and Parathyroid Tumors Amit Agarwal, Ranil Fernando, Rajeev Parameswaran, Anand Kumar Mishra, Roma Pradhan, 2023-06-08 The book covers all aspects of thyroid and parathyroid surgery including history and examination pre operative workup and how ancillary specialties like pathology radiology radiotherapy and nuclear medicine impact the outcome of thyroid and parathyroid patients It offers a step by step approach to help the readers manage their cases in their practice It includes numerous color photographs anatomical and operative line diagrams for easy understanding Chapters include flow charts explaining the case management and the decision making process The book serves as a valuable resource to endocrine surgeons general surgeons endocrinologists and internists It also serves as reference material for the exit examination of masters of surgery and the super specialty entrance and exit exam for endocrine surgery Additionally it helps consultants and postgraduate students of radiology pathology nuclear medicine and radiotherapy

Clinical Reasoning Cases in Nursing - E-Book Mariann M. Harding, Julie S. Snyder, 2023-04-13 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Perioperative Learn to make sound clinical nursing judgments with the concept based case study approach in Harding Snyder's Clinical Reasoning Cases in Nursing 8th Edition Awarded second place in the 2019 AJN Book of the Year Awards in the Medical Surgical category this time tested case study resource is highly regarded for its clinically relevant and thought provoking cases Approximately 150 true to life case studies cover all four clinical practice areas medical surgical pediatric OB maternity and psychiatric mental health nursing all organized to facilitate a conceptual approach to teaching and learning Each case covers a common patient problem drawn from actual clinical experiences and written by nurses who are clinical experts and includes a strong focus on interprofessional collaboration competencies Cases include integrated content on pharmacology nutrition and diagnostic laboratory tests to encourage you to think critically about all aspects of patient care The 8th edition has been updated throughout to reflect the most current standards of clinical practice including readiness for practice in the COVID 19 era Also new to this edition concepts and terminology related to the Next Generation NCLEX Exam NGN are introduced in the Preface and integrated throughout to help you prepare for the new exam Approximately 150 case studies draw from actual clinical experiences in medical surgical pediatric OB maternity and psychiatric mental health clinical areas to help you learn to think clinically prioritize and deliver proactive nursing care UNIQUE Concept based organization mirrors the growing popularity of concept based curricula and conceptual approaches to teaching and learning in nursing education Clinical judgment approach helps you learn to identify changes anticipate possible complications and initiate therapeutic interventions Progressive case complexity builds on previous learning to help you gradually develop clinical judgment skills Strong QSEN safety emphasis is highlighted with an icon to communicate caution or safety Icons identify questions that resemble new NCLEX RN item types Strong emphasis on sepsis and antibiotic resistance addresses the growing problem of

sepsis a recent Joint Commission core measure and antibiotic resistance where appropriate **Clinical Cases:**

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Practical Manual of Thyroid and Parathyroid Disease Asit Arora, Neil Tolley, R. Michael Tuttle, 2009-12-01 Edited and authored by international experts A Practical Manual of Thyroid and Parathyroid Disease presents concise evidence based multi disciplinary guidance relevant for a global audience Where appropriate chapters include an evidence appraisal section which critically assesses the level of the evidence available for different treatment options Reflecting the latest in clinical research and showcasing techniques pioneered by the contributors the book includes chapters dedicated to advances in cytology radiological assessment molecular biology and treatment rationale in thyroid cancer surgical technique including minimally invasive modalities Designed to be user friendly the book contains key points case studies color photographs and diagrams throughout Multiple choice questions included at the end of each chapter enable self assessment The book will be

relevant to the medical undergraduate postgraduate and clinical nurse specialist Primary care physicians will find this an excellent resource for reference purposes and it will update specialists involved with treating thyroid and parathyroid disease in the fields of Pathology Radiology Oncology Endocrinology and Surgery *Principles Of Clinical Toxicology* Thomas A Gossel,2018-02-06 In this third edition the editors have accounted for the numerous changes in protocols for managing poison ingestions and have again provided an indispensable resource for all students of pharmacy and the health sciences on the basic principles of clinical toxicology The book s unique focus on the fundamentals helps the reader understand why events occur and why a particular treatment is selected Each chapter presents pertinent information on classes of toxic agents their common sources and usual methods of intoxication incidence and frequency of poisoning mechanisms of action clinical signs and symptoms of poisoning and management guidance The text includes illustrative case studies carefully selected to reinforce the information covered Each chapter concludes with review questions to further enhance comprehension **Werner & Ingbar's The Thyroid** Lewis E. Braverman,David S. Cooper,2012-10-08 Werner Ingbar s The Thyroid A Fundamental and Clinical Text 10th Edition has been extensively revised and streamlined to deliver the most comprehensive coverage of the thyroid including anatomy development biochemistry physiology pathophysiology and treatment of all thyroid disorders Entirely new chapters on the surgical management of thyroid cancer thyroid disruptors and thyroid hormone analogs are in this edition New authors and an international group of contributors elevate this classic text that includes extensive clinical coverage of thyroid dysfunction s effects on other organ systems Also addressed are clinical controversies regarding the ageing thyroid subclinical hypothyroidism and hyperthyroidism and thyroid disease in pregnancy New to this edition Twenty three chapters authored by new contributors and international experts A companion website with fully searchable text for quick reference Three new chapters discuss surgical management of thyroid cancer thyroid disruptors and thyroid hormone analogs to keep you up to date on the latest advances in the field *Principles and Practice of Geriatric Surgery* Ronnie Ann Rosenthal,Michael E. Zenilman,Mark R. Katlic,2011-07-12 In the preface to this impressive and well produced book the editors state that their aim is not to describe a new surgical specialty since most surgeons will soon need to be geriatric surgeons but to assemble a comprehensive account that will allow all providers of healthcare to the elderly to understand the issues involved in choosing surgery as a treatment option for their patients This is a useful book that deserves to do well I hope that the editors and their publisher will have the stamina to make this the first of several editions as it is clear that updated information about surgery in the elderly will be required to keep pace with this important field NEJM Book Review **Diagnostic Ultrastructural Pathology** Ann M. Dvorak,Rita A. Monahan-Earley,1995-06-19 Diagnostic Ultrastructural Pathology Volume III presents individual problem based cases in a well illustrated format using numerous electron micrographs to convey appropriate and necessary visual information for the diagnosis of human disease The format facilitates the teaching of the case approach for diagnostic ultrastructural pathology using clinical ultrastructural

pathologic correlation These guides illustrate key reasoning processes that physicians use to resolve individual clinical problems through the use of electron microscopy The material is useful to a wide variety of physicians and students of medicine structure and disease at various levels of training as well as in the training of and operational use by technical support staff The two volumes include a total of 50 cases and a procedural guide for the ultrastructural pathology laboratory The cases were selected using four principal criteria 1 classic cases which are diagnosed readily by light microscopy to facilitate the electron microscopic diagnosis of less classic cases 2 diagnostic cases for which ultrastructural analysis is essential for diagnosis 3 supportive cases where either the light or the electron microscopic diagnosis is supportive and thus confirmatory of the other and 4 new facts cases which establish new knowledge regarding the pathogenesis of disease using electron microscopy as the investigative modality The 50 cases are grouped anatomically in four major categories Volume III presents the cases dealing with the endocrine and hematopoietic systems Each section is preceded by introductory remarks Each case cites relevant classic anatomic pathology papers and related research papers These volumes also include multiple functional indices providing ready access to the material from several starting points There are separate indices for presenting symptoms differential diagnostic groups ultrastructural pathology criteria and final diagnostic categories As a valuable resource and guide Diagnostic Ultrastructural Pathology Volume III is an excellent high quality addition to the field of diagnostic pathology

Thyroid Cancer Georg Riccabona, 2012-12-06 In a period of controversial attitudes to thyroid cancer this book aims to correlate recent progress in basic sciences with new clinical management possibilities It deals with the epidemiology pathology pathophysiology etiology diagnosis therapy and follow up of this disease based on 27 years experience with some 2000 thyroid cancer cases The inclusion of ultrasound CT NMR imaging and modern surgical techniques for combined treatment modalities is new Guidelines for further research and improved therapy are set and an extensive review of the literature is provided This up to date survey will offer clinicians surgeons and researchers a better understanding of thyroid cancer in its entirety *Cumulated Index Medicus* ,1992

Boorman's Pathology of the Rat Andrew W. Suttie, Gary A. Boorman, Joel R. Leininger, Scot L. Eustis, Michael R. Elwell, William F. MacKenzie, Alys Bradley, 2017-12-01 Boorman's Pathology of the Rat Reference and Atlas Second Edition continues its history as the most comprehensive pathology reference on rat strains for researchers across science and medicine using rat models in the laboratory It offers readers an added emphasis on the Sprague Dawley and Wistar rat strains that is consistent with current research across academia government and industry In addition the book provides standard diagnostic criteria basic content on histology histological changes that result from drug toxicity and neoplasm pathology terminology and four color photographs from the NTP archive and database With updated references and photographs as well as coverage of all rat strains this book is not only the standard in the field but also an invaluable resource for toxicologists biologists and other scientists engaged in regulatory toxicology who must make the transition from pathology results to the promulgation of

meaningful regulations Contains full four color photographs from the NTP archive and database and coverage of all rat strains Provides an organ by organ and system by system approach that presents standard diagnostic criteria and basic content on histology and histological changes Includes comprehensive and detailed background incidence data Presents detailed descriptive content regarding changes in rat models during research

Common Diagnostic Pitfalls in Thyroid Cytopathology Adebowale J. Adeniran, David Chhieng, 2016-06-23 This text provides a comprehensive review of the most frequently encountered diagnostic pitfalls in thyroid cytopathology Written in a case study format the text provides the most current and complete information on both non neoplastic and neoplastic thyroid conditions Each chapter focuses on a specific diagnostic challenge and or pitfalls that help in the differential diagnosis as well as the judicious use of ancillary studies when necessary A review of the current literature as it relates to each disease entity is also incorporated into respective chapters Highly illustrated with ample illustration of microscopic features to tackle common and uncommon diagnostic challenge in everyday routine practice This book provides a concise yet comprehensive summary of the common cytologic features needed to resolve the diagnostic pitfalls Common Diagnostic Pitfalls in Thyroid Cytopathology serve as a very useful resource for pathologists and physicians dealing with and interested in the thyroid

Medical Record George Frederick Shrady, Thomas Lathrop Stedman, 1922

Oxford Textbook of Endocrinology and Diabetes John Wass, Wiebke Arlt, Robert Semple, 2022-03-10 Now in its third edition the Oxford Textbook of Endocrinology and Diabetes is an up to date objective and comprehensive text that covers the full scope of endocrinology and diabetes It contains wide ranging and pragmatic advice on diagnosis and clear guidelines for recommended management while also covering the scientific principles that underlie the medical practice in this important field The book has been re organised into 15 overarching sections with new sections on Endocrinology of Pregnancy and Management of the Transgender Patient included All other sections have been extensively updated and restructured Each chapter is written by an internationally acknowledged expert relates basic science to evidence based guidelines and clinical management and where appropriate offers an outline of the controversies in the subject The textbook has an international focus and deals with subject matter applicable across the globe The new edition has over 800 images complementing the extensive text and information provided The book is a one stop text for trainees and consultants in Endocrinology and Diabetes residents those preparing for sub specialty exams and other professionals allied to the area who need to gain an understanding of the field It acts as both a point of reference for the experienced consultant as well as a trusted training resource Purchase of the print work also includes full access to the online edition of the textbook for the life of the edition

Medical Terminology: An Illustrated Guide Barbara Janson Cohen, Shirley A Jones, 2020-02-04 Medical Terminology An Illustrated Guide Ninth Edition helps readers develop a fundamental knowledge of the medical terminology necessary for a career in any health care setting

Mastering Healthcare Terminology - E-Book Betsy J. Shiland, 2014-12-18 Gain the knowledge of medical language you need to

succeed in class and in your healthcare career Mastering Healthcare Terminology 5th Edition covers medical terms and definitions in small chunks easy to follow learning segments followed immediately by exercises and review questions that reinforce your understanding From well known educator Betsy Shiland this book includes realistic case studies to help you apply your knowledge to practice And because Shiland users love the case studies and medical records more than 70 new case studies with review questions have been added to this edition along with extra case studies on the Evolve companion website Now with new mobile optimized quizzes and flash cards that make it easy to study terms while on the go this popular introduction to healthcare language enables you to communicate clearly and confidently with other members of the healthcare team Quick reference format makes it easier to learn terminology by presenting terms in tables including word origin definition and pronunciation Frequent word part and word building exercises reinforce your understanding with immediate opportunities for practice and review A total of 460 illustrations includes additional new photos showing difficult terms and procedures A breakdown of A P terms appears in page margins next to the related text helping you learn and memorize word parts in context Convenient spiral binding lets the book lay flat making it easy to work on exercises UNIQUE ICD 9 and ICD 10 codes are provided in the pathology terminology tables for a better understanding of medical coding An Evolve companion website includes medical animations audio pronunciations an anatomy coloring book electronic flash cards and word games such as Wheel of Terminology Terminology Triage and Whack a Word Part Coverage of electronic medical records prepares you for using EHR in the healthcare setting NEW 70 new case studies provide more opportunity to see terminology in use NEW Mobile optimized quick quizzes and flash cards allow you to practice terminology while on the go NEW terms and procedures keep you up to date with advances in healthcare NEW Normal Lab Values appendix provides a quick reference as you work through case studies and medical reports

Joshi's-Physiology Preparatory Manual for Undergraduates - E-Book Sadhana Joshi Mendhurwar, 2022-04-19 The seventh edition of this book is revised as per guidelines of National Medical Commission in accordance with the Competency Based Medical Education CBME of Physiology In highly simplified language it explores links with Pathophysiology and Medicine focusing on early clinical exposure to students and gearing them towards holistic patient management This book continues to be must have for all undergraduate medical students as it prepares them for both theory and viva voce examinations It is also useful for paramedical dental homeopathy and ayurveda students besides those preparing for PG entrance examinations Logical flow in easy to understand language and systemic presentation of complete theory in Question Answer format helps in revision and self assessment before examination Substantially increased visual representations in the form of diagrams tables and charts to facilitate quick assimilation learning and greater retention of knowledge Clinical Case Studies that draw from the theory covered in the book and impart practical focused learning Significant content enhancement and re organization in line with revised syllabus to ensure continued relevance completeness and renewed focus on application based learning New chapter

have been added on Integrated Physiology as per CBME curriculum Comprehensive treatment highlighting horizontal and vertical integration of topics to foster solid understanding Chapter wise exhaustive coverage of topics and mapping with CBME via specific competency codes Pointwise specific and detailed illustrated answers to progressively building up intuitive questions on each topic Insertion of 86 Clinical Case Studies with Question and Answer Mapping and Problem based Learning prepare students for National Exit Test NExT examinations and facilitate an integrated approach that lays a strong foundation for academics and practice

Nuclear Science Abstracts ,1950 **The Thyroid and Its Diseases** Markus Luster,Leonidas H. Duntas,Leonard Wartofsky,2019-01-08 This book is an up to date and comprehensive guide to all the common thyroid disorders that may be seen by internists endocrinologists nuclear medicine physicians and endocrine surgeons While the fundamentals of thyroid hormone function and regulation in health and disease are well covered the primary focus is on the clinical approach to thyroid disease with detailed coverage of both initial diagnosis and management and the role of imaging Because most endocrine diseases are chronic and lifelong special emphasis is placed on long term management and the common pitfalls that may be encountered by the clinician The editors are internationally acknowledged leaders in the field of thyroid disease and have gathered an outstanding team of authors all of whom are also highly expert in their respective areas but who equally importantly write in a clear and lucid style The numerous isotope scan and ultrasonographic images ensure that the book will serve as a valuable reference atlas to which the physician will return again and again

The book delves into Thyroidectomy Case Study. Thyroidectomy Case Study is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Thyroidectomy Case Study, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

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- Chapter 3: Thyroidectomy Case Study in Everyday Life
- Chapter 4: Thyroidectomy Case Study in Specific Contexts
- Chapter 5: Conclusion

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4. In chapter 3, this book will examine the practical applications of Thyroidectomy Case Study in daily life. The third chapter will showcase real-world examples of how Thyroidectomy Case Study can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Thyroidectomy Case Study in specific contexts. The fourth chapter will explore how Thyroidectomy Case Study is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Thyroidectomy Case Study. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Thyroidectomy Case Study.

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