

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها على هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



بعض الوثائـــق الإصليــة تالفــة



بالرسالة صفحات لم ترد بالإصل

445

SUSPENSION MICROLARYNGOSCOPY WITH HIGH MAGNIFICATION IN THE MANAGEMENT OF BENIGN LESIONS OF THE VOCAL FOLDS

Thesis
Submitted for partial fulfillment
Of Master degree in
Oto-Rhino-Laryngology

By

SAYED AHMED MOHAMMED ASHOUR

M.B., B.Ch. & Diploma E.N.T.
Specialist of Otolaryngology
Baltim Hospital
Ministry of Health

Supervised by

Prof.Dr. AHMED M. GAMEA
Professor of Otolaryngology
Faculty of Medicine
Tanta University

Dr. FATHI A. ERFAN
Assistant professor of Otolaryngology
Faculty of Medicine
Tanta University.

Dr. MAHMOUD F. ABDEL-AZIZ.
Assistant professor of Otolaryngology
Faculty of Medicine
Tanta University.

Faculty of Medicine
Tanta University
2000

المالي المالي المالي المالية ا

صلىق الله العظيمر البقرة (٣٢)

ACKNOWLEDGEMENT

First and formost, thanks are due to ALLAH.

I would like to express my deepest gratitude and sincere appreciation to **Prof. AHMED M. GAMEA**, Professor of Otolaryngology, Faculty of medicine, Tanta University, for his close observation, valuable supervision, moral support and for the time he spent in this work. I shall always remember his encouragement and guidance to me. Indeed this work is the outcome of his wide experience, patience and valuable suggestion.

I wish to express my sincere gratitude for the kindness and encouragement of **Dr. FATHI A. ERFAN**, Assistant Professor of Otolaryngology, Faculty of medicine, Tanta University, for his valuable, continuos interest and his continuos assistance throughout the investigation and writing of the work.

I am particularly indebted to **Dr. MAHMOUD F. ABDEL- AZIZ**, Assistant Professor of Otolaryngology, Faculty of medicine,
Tanta University, for suggesting and planning this work and for
his sincere advise. Really his generous provision, constructive
criticism made the accomplishment of this work possible.

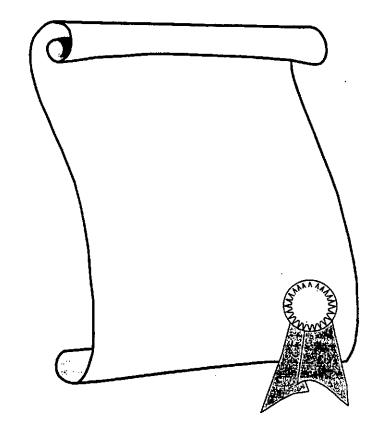
Thanks are most sincerely due to the members of Speech Therapy Department, Freeman Hospital, Newcastle University, U.K. for their valuable scientific cooperation.

Finally, I owe much to all my professors and members of Otolaryngology Department, Faculty of Medicine, Tanta University for their help throughout the thesis.

To my wife and the three daughters Yara,
Rowan and the little Hanin who missed a lot of
time and care because of this work.

CONTENTS

I.	<u>IN1</u>	RODUCTION		. 1
II.	AIN	I OF THE WORK		3
III.	RE	VIEW OF LITERATURE		4
,	Anatomy of the larynx			4
	•	Cartilages of the larynx	•••••	5
	•	Endoscopic anatomy of the larynx		7
	•	Muscles of the larynx		9
	•	Histologic anatomy of the vocal folds	· • • • • • • •	.10
	•	Blood supply of the larynx		12
	•	Nerve supply of the larynx	•••••	.13
F	Physi	ology of phonation	. 	16
	•	Laryngeal functions of the vocal mechanism	•••••	16
	•	Vibratory pattern		17
V	Voice disorders		•••••	19
		Organic dysphonia	*****	19
		* Diseases affecting the adjustment of the		
		Physically normal vocal folds		20
		*Diseases affecting the adjustment of the vocal	•	
		folds due to their localization on the folds	••••	21
	•	Functional dysphonia	••••	39
IV	. <u>PA</u>	TIENTS AND METHODS		42
V	. <u>RE</u>	SULTS	•••	47
VI	. <u>DI</u>	SCUSSION		56
VII	. <u>su</u>	MMARY AND CONCLUSION	•••	63
		FERENCES		
		ARIC SIIMMARY		



NTRODUCTION

INTRODUCTION

Phonation is the process of production of voice by vibration of the vocal folds in the larynx by air exhaled from the lungs (1,2). Organic and functional voice disorders are frequently met with in our daily practice. These disorders present social handicap particularly in females and voice users like teachers, singers and actors. (3,4)

Organic dysphonia due to benign lesions of the vocal folds are caused by either a disturbance of the vocal fold mucosal vibratory wave pattern or, secondary to incomplete glottic closure, or a combination of these two factors (5).

Microlaryngosurgery has been applied for diagnosis and treatment of many organic causes of laryngeal phonatory disorders (6,7). This procedure is known as phonosurgery, which aims at restoration and improvement of vocal performance. The hallmark of phonosurgery is mucosal preservation and maintenance of the vocal ligament integrity. These procedures can be divided into six different categories: tissue excision, tissue injection, tissue vaporization, framework procedures, neuromuscular adjustment and conservation (8).

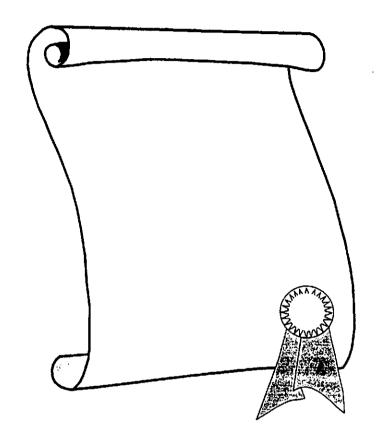
Tissue excision is the removal of the pathological tissues through either microdissection tools or the use of laser (9).

In tissue injection, various injectable materials are utilized to change the shape or position of the vocal fold.

Tissue vaporization is accomplished through the use of the laser. Organic defects like vocal fold varices and papillomata can be successfully treated through tissue vaporization (10).

In framework procedure, several different methods are used, the intent of which is to change the position, shape or tonicity of the vocal fold. The most common application involves medialisation of an immobile vocal fold via an externally inserted implant. (11,12,13,)

Two different types of phonosurgery fall under the neuromuscular adjustment: reinnervation for vocal fold paralysis, and nerve lysis for spasmodic dysphonia. In the former type, nerve muscle pedicle is used to be inserted into various intrinsic laryngeal muscles or actual nerve anastomoses to restore muscle tone and function (15,14).



AIM OF THE WORK

AIM OF THE WORK

The aim of this work is to study the characteristics of the different benign lesions of the larynx and to evaluate the technique of suspension microlaryngoscopy with high magnification in the management of these lesions.