CONTENTS

	Page
Introduction	1
Aim of the work	3
Review of literature	
Anatomy of the pharynx and nose	
Stages and architecture of normal sleep	
Pathophysiology of OSA	
Cardiovascular effects of OSA	
Diagnosis of OSA	
Overview of the management of OSA	77
CPAP in adult population	
Oral appliances in treatment of OSA	
Pharmacologic therapy of OSA	
Surgical treatment of OSA	
Materials and methods	121
Results	
Discussion.	
Conclusions.	236
Summary	
References.	

ACKNOWLEDGMENT

First and foremost thanks to "GOD" for help me to fulfill this work.

I am greatly and appreciably thankful to **prof. Dr. Adel Ahmed Helmy,** Professor of ENT surgery, Benha faculty of medicine, Zagazeg University for his generous encouragement, kind supervision, interest and advice.

I am extremely grateful to **prof. Dr. Ashraf Salah El Hamshary**, Professor of ENT surgery, Benha faculty of medicine, Zagazeg University and **Prof. Dr. Hussam Al Deen Mohamed Abd El Azeem**. Assistant Professor of ENT surgery, Benha faculty of medicine, Zagazeg University for cooperation, helpful direction and continuous encouragement.

I would like to express my deepest gratitude to **Prof. Dr. Osama Sanad Arafa**, Professor of Cardiology, Benha faculty of medicine, Zagazeg University for his help throughout this work and supervision.

Figure (42): Mean age (years), weight (Kg) and height (cm) of studied groups

Figure (43): gender distribution of studied groups

Figure (44): Post operative subjective EDS response to nasal and Oropharyngeal surgery

Figure (45): nasal examination of nasal OSA patients

Oropharyngeal OSA patients

<u>Figure (46): Oropharyngeal examination of Oropharyngeal OSA</u> <u>patients</u>

Figure (47): Types of operations done in studied obstructive sleep apnea(OSA) patients

Figure (48): Heart rate and blood pressure before and after surgery in Oropharyngeal sleep apnea patients

Figure (49): Heart rate and blood pressure before and after surgery in nasal Oropharyngeal sleep apnea patients

Figure (50): Spirometric measurements of nasal obstructive sleep apnea (OSA) patients before and after surgery

Figure (51): Spirometric measurements of Oropharyngeal obstructive sleep apnea (OSA) patients before and after surgery

Figure (53): Echocardiographic measurements of nasal obstructive sleep apnea (OSA) patients before and after surgery

Figure (54): PASP of nasal OSA patients before and after surgery

Figure (55): Echocardiographic measurements of Oropharyngeal obstructive sleep apnea (OSA) patients before and after surgery

Figure (56): PASP of Oropharyngeal OSA patients before and after surgery

Figure (60): Arterial blood gases concentrations before and after surgery in nasal obstructive sleep apnea patients

Figure (61): Arterial blood gases concentrations before and after surgery in nasal obstructive sleep apnea patients

Figure (62): Electrocadiographic finding before and after surgery in nasal obstructive sleep apnea patients

Figure (63): Electrocadiographic finding before and after surgery in Oropharyngeal obstructive sleep apnea patients

Figure (68): percentage of patients having improved Polysomnography parameters in both nasal and OSA patients