

1  
ja

# Laparoscopy In Urology

Thesis

Submitted in partial fulfillment for

مستند

M D Degree Urology

617.46  
Y.M

By

**Yasser M. Farrage**  
M. B. B. Ch., M. Sc.

6191

Supervised By

**Dr. Magdy Abbass El AKAAD**  
Professor of Urology  
Faculty of Medicine  
Assiut Univerisity



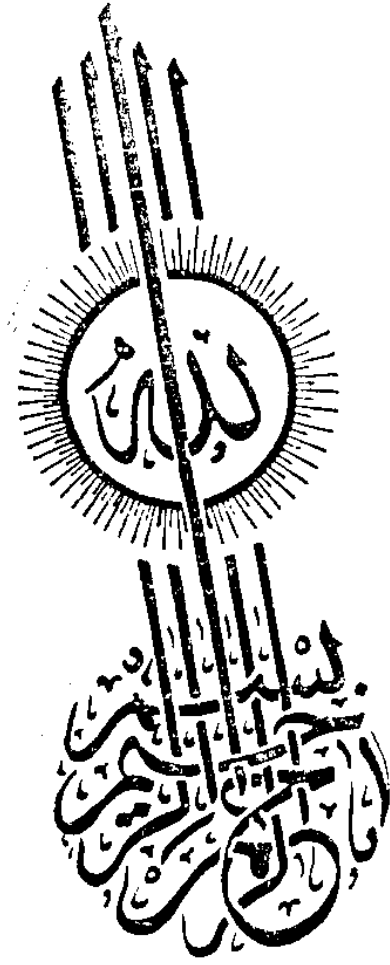
**Dr. Ahmed Abdel Moety**  
Professor of Urology  
Faculty Of Medicine  
Assiut University

**Dr. Abd EL Fataah Ibrahim**  
Assitant Professor, Urology  
Faculty Of Medicine  
Assiut University

Assiut University  
1993







ربنا آتانا من لذك صفة وهي لنا من أمرنا ردا .  
صدق الله العظيم



# *Acknowledgment*



## Acknowledgement

I want to express my great thanks and appreciation to the staff of Urology Department of University of Iowa Hospitals and Clinics in Iowa , USA. They were very helpful and greatly encouraged me to do this work. The head of the department, prof. Richard Williams who developed this department to the best and Dr. James Donovan, Associate prof. urology, who developed the technique of laparoscopic varicocelectomy. He also, taught me microsurgery and helped to expand some ideas of the laparoscopic animal procedures.

Howard Winfield, Ass. Prof. Urology, a pioneer of laparoscopic surgery, who is not only a supervisor but a friend. He is well known all over the world advancing and inventing new aparoscopic techniques. It was a great pleasure to work with him. With his support and promotion I could share in all teaching courses held inside and outside Iowa, under his upervision, during my stay there.

Dr. Andre Godet, urology resident, with whom we were the laparoscopic animal lab team, was very helpful and cooperative.

wish to express my profound gratitude to Dr. Magdy Abbass El Akaad Prof. of Urology for promoting this work, for his great endless support, and for meticulous revision of the text. My attempt to define my indebtedness to him will be far from complete.





I want to thank Dr. Ahmed Abdel Moety Prof. of Urology so much who is always encouraging me to learn more and more and for his valuable advice and supervision.

I am grateful and appreciated to Dr. Abdel Fataah Ibrahim, Assistant Prof. of Urology, for his valuable advice, kind and indispensable guidance together with his continuous enthusiastic stimulation throughout this work.



# *Contents*



## Contents

History of laparoscopy .....	1
Description of the Instruments: .....	5
Technique of Laparoscopy: .....	19
Open laparoscopy: .....	27
<b>Indication and Contraindications .....</b>	<b>31</b>
<b>Laparoscopic Complications .....</b>	<b>33</b>
A-Complications Related to Induction of Pneumoperitoneum: .....	33
B COMPLICATIONS ASSOCIATED WITH TROCAR INSERTION: .....	55
C-COMPLICATIONS ASSOCIATED WITH OPERATIVE LAPAROSCOPY .....	65
D- Complications Related to Anesthesia: .....	75
E-Complications Related to Patient Positioning: .....	79
F-POST OPERATIVE COMPLICATIONS: .....	80
<b>Materials and Methods .....</b>	<b>85</b>
A)Operative procedures in humans: .....	85
Laparoscopic Pelvic Lymph Node Dissection .....	87
Laparoscopic Varicocelectomy .....	92
Laparoscopic exploration of undescended testis .....	98
Laparoscopic management of a Renal Cyst .....	101
B) Animal procedures: .....	105
Simple Nephrectomy: .....	106
Ureterocutaneous anastomosis: .....	108
Partial cystectomy: .....	109
Ileal Conduit: .....	110
Radical prostatectomy: .....	113
<b>RESULTS OF LAPAROSCOPIC PROCEDURES .....</b>	<b>115</b>
Laparoscopic pelvic lymph node dissection .....	116
Laparoscopic Varicocelectomy .....	120
Laparoscopic Management of Undescended Testis .....	124
Laparoscopic Management of a Renal Cyst .....	127
<b>Laparoscopic Animal Procedures .....</b>	<b>129</b>
Nephrectomy: .....	129
Uretero-cutaneous anastomosis: .....	131
Prtilal cystectomy: .....	131

