

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار





بالرسالة صفحات
لم ترد بالأصل





بعض الوثائق الأصلية تالفة



B 11 V A 1

Evaluation of the association between Helicobacter Pylori Infection and Irritable bowel syndrome

Thesis

Submitted for partial fulfillment of master degree in
medicine
(M.SC)

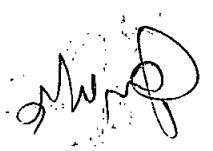
by:

Usama Elsayed Ahmed Elshalakany
M.B;B.ch

Supervised by:

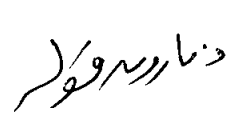
Professor Dr. Ibrahim Mouhamed Baghdadi

Professor of Internal Medicine
Faculty of Medicine-Menoufiya University



Professor Dr. Farouk Fouad Mouhamed

Professor of Internal Medicine
Faculty of Medicine-Menoufiya University



Dr. Sabry Abd-Allah Shoeib

Lecturer of Internal Medicine
Faculty of Medicine-Menoufiya University



Menoufiya University
2006

Evaluation of the association between Helicobacter Pylori Infection and Irritable bowel syndrome

Thesis

Submitted for partial fulfillment of master degree in
medicine
(M.SC)

by:

Usama Elsayed Ahmed Elshalakany
M.B;B.ch

discussed by:

Professor Dr.sanaa Sayed Gazarin

Professor and Headmaster of Internal Medicine department
Faculty of Medicine-Menoufiya University



Professor Dr. Ibrahim Mouhamed Baghdadi

Professor of Internal Medicine
Faculty of Medicine-Menoufiya University



Professor Dr. Mouhamed Serag El-deen Zakaria

Professor of Tropical Medicine
Faculty of Medicine-Cairo University



Professor Dr. Farouk Fouad Mouhamed

Professor of Internal Medicine
Faculty of Medicine-Menoufiya University



Menoufiya University
2006

ACKNOWLEDGMENT

"Thanks to god before and after "

I would like to express my sincere gratitude to **Prof. Dr. Ibrahim M. Baghdadi**, Professor of Internal Medicine, Faculty of Medicine, Menoufiya University, whose guidance, help and sincere supervision were the cornerstone in the building up of this thesis. He kindly supervised all the details of this work throughout its various steps. A few words could hardly do justice to thank **Prof. Dr. Ibrahim M. Baghdadi**.

I would like to express my sincere gratitude to **Prof. Dr. Farouk Fouad Mouhamed**, Professor of Internal Medicine, Faculty of Medicine, Menoufiya University, for his valuable help, cooperation and encouragement. He offered me much of his unlimited experiences in this research.

I would like to express my sincere gratitude to **Dr. Sabry Abd-Allah Shoeb** lecturer of Internal Medicine, Faculty of Medicine, Menoufiya University, for his generous advice and cooperation.

I would like to express my sincere gratitude to **Dr. Allaa El-Deen Abd-Elsalam** member of Internal Medicine, Faculty of Medicine, Menoufiya University, for his generous advice, cooperation and huge assistance in the practical part of this work .

I would like to express my gratitude to **Dr. Mahmoud Abd-El-Aziz Koura** lecturer of Internal Medicine, Faculty of Medicine, Menoufiya University, for his generous advice and cooperation.

I would like to express my sincere gratitude to all members of Internal Medicine Department for their help and cooperation during preparing this work.

List of Contents

<i>Subject</i>	<i>Page</i>
<i>List of abbreviations</i>	<i>I</i>
<i>List of Tables</i>	<i>II</i>
<i>List of figures</i>	<i>III</i>
<i>Introduction</i>	<i>1</i>
<i>Aim of the work</i>	<i>2</i>
<i>Review of literature</i>	<i>3</i>
1. <i>Functional gastrointestinal disorders</i>	<i>3</i>
i. <i>Definitions</i>	<i>3</i>
ii. <i>Rome I criteria</i>	
iii. <i>Rome II criteria</i>	<i>5</i>
iv. <i>Global prevalence and incidence of functional gastrointestinal disorders</i>	<i>6</i>
2. <i>Fundamental gastroenterology</i>	<i>7</i>
i. <i>Enteric enervation</i>	<i>7</i>
ii. <i>Reflexes and pattern regenerator</i>	<i>10</i>
iii. <i>Sensory physiology</i>	<i>14</i>
iv. <i>Enteric motor physiology</i>	<i>16</i>
v. <i>Functional gastrointestinal disorders and intestinal pseudo-obstruction</i>	<i>17</i>
3. <i>principles of applied neurogastroenterology</i>	<i>23</i>
i. <i>Introduction</i>	<i>23</i>
ii. <i>Sensation</i>	<i>27</i>
iii. <i>Sensory motor dysfunction in IBS</i>	<i>27</i>
iv. <i>Assessment of patients with psychiatric disorders</i>	<i>33</i>
v. <i>Evaluation of the role of psychosocial factors</i>	<i>33</i>
4. <i>Functional bowel disorders</i>	<i>35</i>
i. <i>irritable bowel syndrome</i>	<i>36</i>
ii. <i>functional abdominal bloating</i>	<i>59</i>
iii. <i>functional constipation</i>	<i>59</i>
iv. <i>functional diarrhea</i>	<i>60</i>
v. <i>unspecified functional bowel disorders</i>	<i>61</i>
vi. <i>functional abdominal pain</i>	<i>62</i>
5. <i>Helicobacter Pylori infection</i>	<i>81</i>
<i>Subjects and methods</i>	<i>88</i>
<i>Results</i>	<i>94</i>
<i>Discussion</i>	<i>101</i>
<i>Summary</i>	<i>103</i>
<i>Conclusion</i>	<i>104</i>
<i>Recommendations</i>	<i>105</i>
<i>References</i>	<i>122</i>
<i>Arabic Summary</i>	

List of abbreviations

ACh ---Acetylcholine
AP-I ---Activator protein-I
CBT ---Cognitive--Behavioral Therapy
CNS ---Central Nervous System
CRF ---Corticotrophin Releasing Factor
DVN---Dorsal motor Nucleus of the Vagus
ENA-78---Epithelial cell derived neutrophil activating peptide-78
ENS ---Enteric Nervous System
FAPS---Functional abdominal pain syndrome
FBD---Functional bowel disorders
FGID---Functional gastrointestinal disorders
Fmri---Functional magnetic resonance imaging
GRO.a---Growth related oncogen-a
5-HT ---5-hydroxytryptamine
5-HT1A---5-hydroxytryptamine 1A receptor agonist
HRQOL ---Health Related Quality of Life
IBD---Inflammatory bowel disorders
IBS---Irritable Bowel Syndrome
ICC---Interstitial Cells of Cajal
MALT---Mucosa associated lymphoid tissue lymphoma
MMC---Migrating Motor Complex
NK ---Neurokinin
NO ---Nitric Oxide
NOS---Nitric Oxide Synthase
NTS---Nucleus Tractus solitarius
PET---Positron Emission Tomography
PI-IBS---Post-infectious IBS
PMN---Polymorph neuclar cells
SSRI---Selective Serotonin Reuptake Inhibitor
SubK---Substance K
Sub--- Substance P
TCA---Tricyclic Antidepressant
TRH ---Thyrotropin Releasing Hormone
VCAM-I---Vascular cell adhesion molecule-I
VIP---Vasoactive Intestinal Polypeptide

