



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



شبكة المعلومات الجامعية



بالرسالة صفحات

لم ترد بالأصل

**STUDY OF APOPTOSIS AND Ki-67 PROLIFERATIVE
ANTIGEN IN CHRONIC GASTRITIS, HELICOBACTER
AND NON- HELICOBACTER TYPES**

B799A

Thesis Submitted for Partial Fulfillment of (M.Sc.) Degree in Pathology

Submitted By

AMAL AHMED MOHAMED HAREEDY

(M.B.B.CH)

Faculty Of Medicine- Cairo University

Under Supervision Of

DR. ALI AHMED FOAD EL-HINDAWI

*Professor of Pathology, Faculty of Medicine,
Cairo University*

DR. MONA ANWAR ABDEL HAMID

*Professor of Pathology, Faculty of Medicine,
Cairo University*

DR. SAWSAN ABDEL MONIUM FADDA

*Assistant Professor of Pathology, Faculty of Medicine,
Cairo University*

Faculty of Medicine

Cairo University

2001

10. 10. 51

1. 1

2. 1

3. 1

4. 1

5. 1

6. 1

7. 1

8. 1

9. 1

10. 1

11. 1

12. 1

13. 1

14. 1

15. 1

16. 1

17. 1

18. 1

19. 1

20. 1

21. 1

22. 1

23. 1

24. 1

25. 1

26. 1

27. 1

28. 1

29. 1

30. 1

أجتماع لجنة الحكم على الرسالة المقدمة من
الطبيبة أهل أحمد محمد هادي
توطئة للحصول على درجة الماجستير / الدكتوراه
في الباثولوجيا

Study of apyteris and Ki-67 proliferative antigen : باللغة الانجليزية
in Chronic gastritis, Helicobacter and non-Helicobacter types

باللغة العربية : دراسة خصائص الخلايا الغضروفية والانتاجية في
التهاب المعدة المزمن المصحوب بـ Helicobacter و non-Helicobacter
بالتاريخ ١٤٢٧ في جداول التواريخ المخصصة للامتحان

بناءً على موافقة الجامعة بتاريخ ٢٠ / ٥ / ٢٠٠١ تم تشكيل لجنة الفحص والمناقشة للرسالة
التي كلفتها من قبل على النحو التالي :-

- (١) أ.د. علي أحمد فؤاد القنديل رئيس اللجنة
- (٢) أ.د. فهدية محمد حبيب
- (٣) أ.د. عوشة هادي غانم

يتم فحص الرسالة بواسطة كل عضو منفردا وكتابة تقارير منفردة لكل منهم لإستعانة اللجنة بمشورة من
بعض الاستشاريين بتاريخ ٢٠ / ٤ / ٢٠٠١ يتم البلانولاجيا بتاريخ الاستشاريين
بكلية الطب - جامعة القاهرة وذلك لمناقشة الطالب في جلسة علنية في موضوع الرسالة والنتائج التي
الحصل عليها وكذلك الأساس العلمي التي قام عليها البحث .

قرار اللجنة : توصية الاستشاريين البلانولاجيا الاستشاريين
الاستشاريين

المبرر من الخارجى

المبرر من الخارجى

توصيات أعضاء اللجنة :-

المبرر من الخارجى

محمد الحزني

محمد الحزني

محمد الحزني

محمد الحزني

hans/fo

fo roces^h

abundo

all

in hoo

SC

misil

even an

MA 2

quid

quid

at qit

MA

quid

ACKNOWLEDGEMENT

First of all thanks to God, the most beneficent and merciful.

Then, I would like to express my deep appreciation and profound gratitude to PRO. DR. ALI EL-HINDAWI, Professor of Pathology, Faculty of Medicine, Cairo University, for his highly valuable supervision, and constructive instructions throughout this research. His remarks, criticism and great experience in this field specifically and in pathology generally have added much to my knowledge.

I would like to express my sincere gratitude to PRO. DR. MONA ANWAR, Professor of Pathology, Faculty of Medicine, Cairo University, for her generous supervision, valuable suggestion, and keen interest throughout this work.

I am very much indebted to PRO. DR. SAWSAN FADDA, Assistant Professor of Pathology, Faculty of Medicine, Cairo University, for her kind supervision, valuable advices, constructive criticism and indispensable help, both in selecting the subject and every step to complete this work.

I would like to express my appreciation and great thanks to PRO. DR. SAMIA ABD-ELRAZIK, Professor of Pathology,

Faculty of Medicine, Cairo University, for her kind cooperation, sincere help and valuable advices.

I gratefully acknowledge PRO. DR. MAHA MAHMOUD AKL, Professor and head of Pathology Department, Theodor Bilharz Research Institute, for her utmost help.

My special thanks to DR. SAHAR TALAAT, Lecturer of Pathology, Faculty of Medicine, Cairo University for her help and encouragement.

I am very much heartily indebted to DR. OLFA ALI HAMMAM, Lecturer of Pathology, Theodor Bilharz, Research Institute for her sincere effort to complete the practical part.

Finally, I extend my thanks to include all members of Pathology Department, Faculty of Medicine, Cairo University. To my family all my thanks love go.

Abstract

Since the isolation of *Helicobacter pylori* by Warren and Marshall in 1983, much evidence has accumulated to show its important role in the pathogenesis of chronic gastritis, peptic ulcer and its possible role in gastric cancer. During the multistep process of carcinogenesis, the regulation of cell proliferation and apoptosis are disturbed mostly, with enhanced cell turnover.

The present study included 43 cases of endoscopic gastric biopsies, collected randomly and diagnosed as chronic gastritis. Twenty eight (65.12%) of them were *H.pylori* positive and 15 (34.88%) were negative for the organism, moreover 5 normal gastric biopsies were encountered as controls. The following stains were used; H&E, Giemsa and Alcian blue PAS at pH 2.5 for the graded and ungraded variables of the updated Sydney System. In addition Feulgen nucleal reaction and ki-67 monoclonal antibody for detection of apoptotic events and proliferating cells respectively.

It was found that, activity, lymphoid follicles and surface epithelial damage were statistically significant higher in *H.pylori* cases than non *H.pylori* group. In cell turnover, while the three indices (PI%, AI% and A/P ratio) were statistically significant different in both groups of gastritides compared to those of the controls, no significant difference was detected between each other. The three indices were significantly correlated with the grade of chronic inflammation and activity in both *H.pylori* and non *H.pylori* cases, while atrophy and intestinal metaplasia it was not so.

Conclusion:- Inflammatory cellular infiltrate may have a role in gastric carcinogenesis through enhanced cell turnover in *H.pylori* chronic gastritis.

Key words: - Chronic gastritis- *H.pylori*- Ki-67- Proliferation index%- Apoptotic index %- Apoptosis / proliferation ratio.

2040

1	..
2	..
3	..
4	..
5	..
6	..
7	..
8	..
9	..
10	..
11	..
12	..
13	..
14	..
15	..
16	..
17	..
18	..
19	..
20	..
21	..
22	..
23	..
24	..
25	..
26	..
27	..
28	..
29	..
30	..
31	..
32	..
33	..
34	..
35	..
36	..
37	..
38	..
39	..
40	..
41	..
42	..
43	..
44	..
45	..
46	..
47	..
48	..
49	..
50	..
51	..
52	..
53	..
54	..
55	..
56	..
57	..
58	..
59	..
60	..
61	..
62	..
63	..
64	..
65	..
66	..
67	..
68	..
69	..
70	..
71	..
72	..
73	..
74	..
75	..
76	..
77	..
78	..
79	..
80	..
81	..
82	..
83	..
84	..
85	..
86	..
87	..
88	..
89	..
90	..
91	..
92	..
93	..
94	..
95	..
96	..
97	..
98	..
99	..
100	..

Faculty of Medicine
Cairo University
2001

CONTENTS

	PAGE
INTRODUCTION.....	1
AIM OF THE WORK.....	3
REVIEW OF LITERATURE.....	4
□ Histology of the stomach.....	4
□ Cell kinetics and cellular proliferation.....	11
□ Assessment of cell proliferation.....	21
□ Ki-67 monoclonal antibody.....	30
□ Apoptosis.....	36
□ Helicobacter pylori.....	53
□ Chronic gastritis.....	70
MATERIAL AND METHODS.....	103
RESULTS.....	110
DISCUSSION.....	155
SUMMARY.....	169
CONCLUSIONS.....	172
RECOMMENDATIONS.....	173
REFERENCES.....	174
ARABIC SUMMARY.....	

52

53

54

55

56

57

58

59

60

61

62

63

64