



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية
@ ASUNET



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
علي هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل

807V
CH

THE INTERACTION OF ENDOGENOUS OPIOID PEPTIDES AND OVARIAN STEROIDS

Thesis

Submitted for partial fulfillment of
M.Sc. Degree in Biochemistry

By

Fatma Aziz Ahmed Abd El-Aziz

B.Sc. of Biochemistry

Under Supervision of

Prof. Dr. Nadia Mohamed Abdallah

Professor and Head of Biochemistry Department

Nadia

Faculty of Science

Ain Shams University

Monira Gad

Prof. Dr. Monira Mahmoud Gad

Professor of Obs. & Gynaecology

Faculty of Medicine for Girls

Al-Azhar University

Nabil

Dr. Nabil Abd El-Kader Saleh

Assistant Prof. of Biochemistry

Faculty of Science

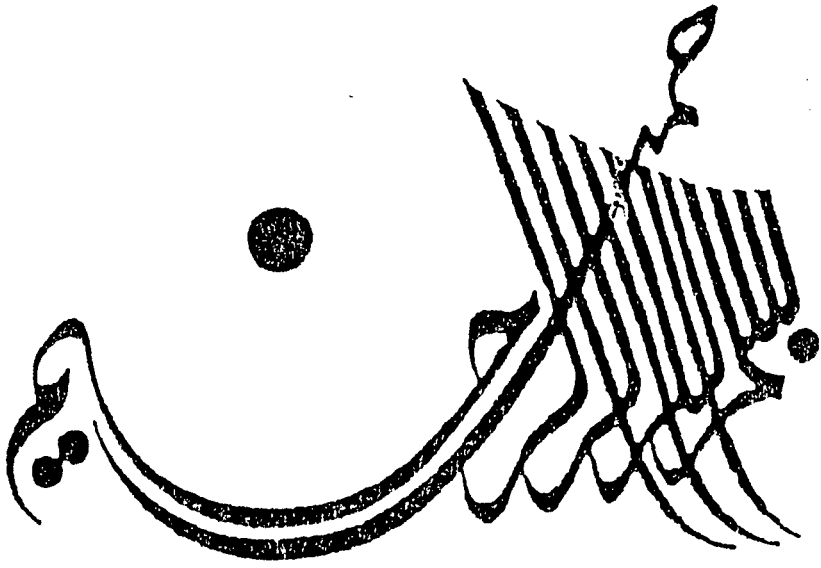
Ain Shams University

Biochemistry Department

Faculty of Science

Ain Shams University

1999



قَالُوا

سُبْحَنَكَ لَا عِلْمَ لَنَا إِلَّا بِمَا غَلَبْتَنَا

إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ

صَدَقَ اللَّهُ الْعَلِيُّ

الآيَةُ (٢٢) سُورَةُ الْبَقَرَةِ

I declare that this thesis has been composed by myself and the work of which is a record that has been done by myself. It has not been submitted for a degree at this or any other university.

I declare that this thesis has been composed by myself and the work of which is a record that has been done by myself. It has not been submitted for a degree at this or any other university.

I declare that this thesis has been composed by myself and the work of which is a record that has been done by myself. It has not been submitted for a degree at this or any other university.

Fatma Aziz Ahmed.

CONTENTS

Abstract.....	i
Acknowledgement.....	ii
List of Abbreviations.....	iv
List of Figures.....	vi
List of Tables.....	ix
Introduction.....	xi
Aim of the work.....	xiii
CHAPTER I: Review of Literature.....	1
1- Premenstrual syndrome (PMS).....	1
1.1. Definition.....	1
1.2. Description of the syndrome.....	2
1.3. Classification of PMS.....	5
1.4. Risk Factors.....	7
1.5. Etiology.....	11
1.5.1. Endogenous opioid peptides (EOPs).	12
1.5.2. Neurotransmitters, serotonin and vitamin B ₆	14
1.5.3. Ovarian hormones.....	15
1.5.4. Prolactin.....	18
1.5.5. Thyroid Hormone.....	18
1.5.6. Prostaglandins and essential fatty acid.	19

1.5.7. Sodium and water retention.....	20
1.5.8. The psychiatric theory.....	21
1.5.9. Magnesium deficiency.....	22
1.5.10. Endogenous Hormone Allergy.....	23
1.5.11. Hypoglycemia.....	24
1.5.12. Ovarian infection theory.....	24
2- Endogenous opioids.....	25
2.1. Historical background.....	25
2.2. Biochemistry and physiology of opioid peptides.....	27
2.3. Opioid receptors.....	35
2.4. Distribution and action of β -endorphin in various tissues.....	39
2.4.1. Action of β -endorphin on CNS and pituitary gland.....	45
2.4.2. Circulating β -endorphin and its possible effect on various peripheral tissues.....	49
2.5. Role of β -endorphin in physiology and pathophysiology of reproduction.....	53
2.5.1. Role of β -EP in the regulation of normal menstrual cycle and ovulation.....	54
2.5.2. Role of β -EP in PMS.....	57

2.5.3. Role of β -EP in hyperprolactinemia and functional hypothalamic amenorrhea.....	58
2.5.4. Role of β -EP in menopause.....	59
CHAPTER II: Subjects & Methods.....	61
1- Subjects.....	61
2- Methods.....	63
2.1. Measurement of Hormones & β -endorphin.....	63
2.1.1. Measurement of β -endorphin.....	63
2.1.2. Measurement of prolactin.....	72
2.1.3. Measurement of progesterone.....	76
2.1.4. Measurement of Estradiol.....	80
2.2. Measurement of serum calcium and magnesium.....	84
2.3. Complete blood count (CBC). Bleeding & clotting time.....	85
3- Statistical analysis.....	86
CHAPTER III: Results and Discussion	88
1- Results.....	88
2- Discussion.....	109
CHAPTER IV: Summary and Conclusion.....	121
1- Summary	121
2- Conclusion.....	125

3- Recommendations.....	126
4- References.....	127
5- Individual Data.....	166
Arabic summary.....	
Arabic Abstract.....	