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TREATMENT OF MENORRHAGIA WITH INTRAUTERINE ADMINISTRATION OF LEVONORGESTREL

THESIS

Submitted for the partial fulfillment of
M.D. Degree in Obstetrics and Gynecology

BY

Wael Abou El-Saude Ismail
(M.B., B.Ch., & M.Sc., Ain Shams)

UNDER THE SUPERVISION OF

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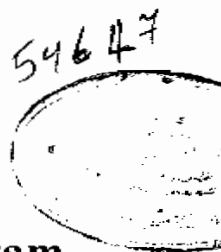
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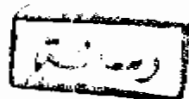
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1998



Dr. Magdi Kamal



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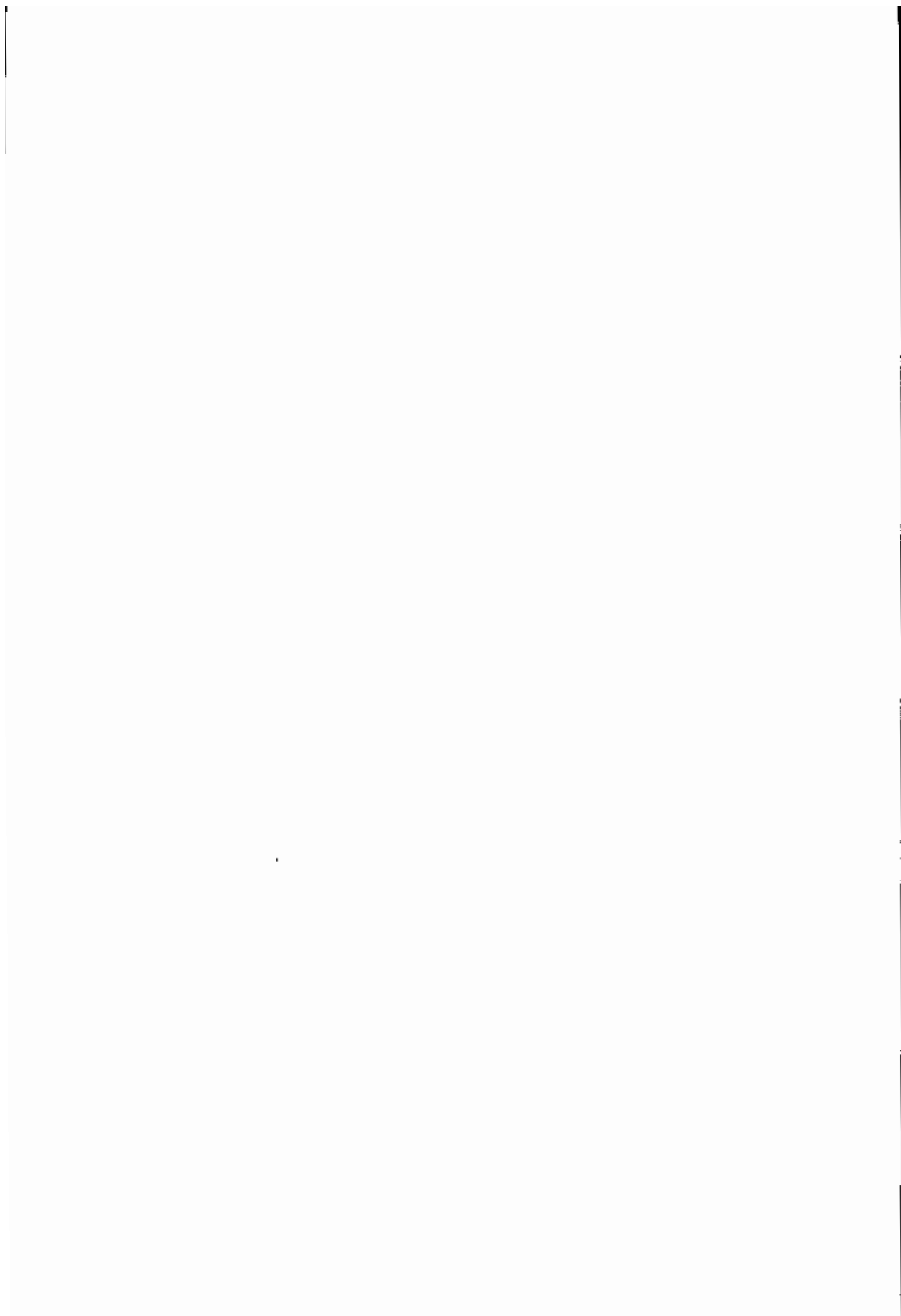


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ .

﴿ سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا

إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ . ﴾

(سورة البقرة آية ٣٢)



DEDICATION

To whom I will be grateful forever.

This thesis is dedicated to

My “BIG” Family
&
My “small” Family

whose love and encouragement
enhanced my spiritual strength
to fulfill this work.

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Last, but not least, I would like to send my best regards and thanks to My Family and My Wife for their help and continuous encouragement.

Acknowledgement

ABSTRACT

Author:

Wael abou El Saud Ismail.

Title:

Treatment of menorrhagia with intrauterine administration of Levonorgestrel.

University:

Ain Shams University.

A clinical trial was conducted on 52 women with dysfunctional menorrhagia who scheduled for hysterectomy after failed medical treatment and failed one or more D & C (s). Patients were counselled and their consents were obtained.

The study was conducted at Ain Shams University Hospital. Metroplant device which is LNG-IUS, modified from the original Levo-NOVA device, is inserted into the selected patients after clinical, sonographic and hysteroscopic assessment. The new device was developed by professor Azzam E. (1994) and it has double the surface area and 33% of the concentration of the Levonorgestrel as does the LevoNOVA device. It releases about 14ug/day for up to five years.

Seven patients were dropped out, 45 patients were regularly followed-up for more than one year. About 67% of them had developed either amenorrhea or hypomenorrhea. About 11% underwent hysterectomy. Another 18% of the patients requested removal of the device because of

unsatisfactory response while about 4% had spontaneous expulsion of the device. The health benefits together with the low incidence of side effects and insignificant morbidity make this minimally invasive device an excellent alternative modality to surgical management of dysfunctional menorrhagia.

Key words:

Menorrhagia, Levonorgestrel-IUS, Metroplant.

LIST OF ABBREVIATIONS

* antiPG	=	Antiprostaglandins
* BI	=	Bleeding index
* C.L	=	Corpus luteum
* CH	=	Complex hyperplasia
* COCP	=	Combined oral contraceptive pills
* D & C	=	Dilatation & curettage
* DUB	=	Dysfunctional uterine bleeding
* GNRH	=	Gonadotrophin releasing hormones
* HPLC	=	High performance liquid chromatography
* HRT	=	Hormonal replacement therapy
* IUCDs	=	Intrauterine contraceptive devices
* LNG-IUS	=	Levonorgestrel releasing intrauterine device
* LNG-IUS	=	Levonorgestrel releasing intrauterine system
* MBL	=	Menstrual blood loss
* PCO	=	Polycystic ovaries
* PG	=	Prostaglandins
* SH	=	Simple hyperplasia
* TBS/M	=	Total bleeding score/month
* TSH	=	Thyroid stimulating hormone
* TVS	=	Transvaginal ultrasound scanning

LIST OF FIGURES

Figure (1):	(18)
Projection drawing of the spiral arterioles from a monkey uterus injected with india ink.	
Figure (2):	(27)
The arachidonic acid cascade	
Figure (3):	(29)
A vascular model of menstruation	
Figure (4):	(80)
The LNG releasing IUD	
Figure (5):	(82)
Mirena IUD	
Figure (6):	(84)
Insertion instructions of Mirena IUD	
Figure (7):	(110)
The Metroplant device	
Figure (8):	(114)
A) Standard curve	
B) The peak of LNG at the retention time	
Figure (9):	(118)
The patients attended the study	