Study of Uterine Contractions in Pregnant Diabetic Rats: Role of Oxidative Stress

Thesis

Submitted for Partial Fulfillment of M.D in Physiology

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2018


بسم الله الرحمن الرحيم
وَأَنْزَلَ اللهُ عَلَيْكَ
الْكِتَابَ وَالْحِكْمَةَ
وَعَلَّمَكَ مَا لَمْ
تَكُنْ تَعْلَمُ وَكَانَ
فَضْلُ اللهِ عَلَيْكَ
عَظِيمًا
صدق الله العظيم
سورة النساء آية (١١٣)

Acknowledgment

First and foremost, I feel always indebted to **ALLAH,** *the Most Kind and Most Merciful.And great appreciation to my country LIBYA.*

I'd like to express my respectful thanks and profound gratitude to **Prof. Dr. Faten Mahmoud Ali Diab,** *Professor of Physiology - Faculty of Medicine- Ain Shams University for her keen guidance, kind supervision, valuable advice and continuous encouragement, which made possible the completion of this work.*

I am also delighted to express my deepest gratitude and thanks to **Prof. Dr. Aziza Seif EL-Naser,** *Professor of Physiology, Faculty of Medicine, Ain Shams University, for her kind care, continuous supervision, valuable instructions, constant help and great assistance throughout this work.*

I am deeply thankful to **Prof. Dr. Mona Ahmed Ahmed,** *Professor of Physiology, Faculty of Medicine, Ain Shams University, for her great help, active participation and guidance.*

I wish to introduce my deep respect and thanks to **Dr. Doaa Mohamed Abdel Wahed,** *Lecturer of Physiology, Faculty of Medicine, Ain Shams University, for her kindness, supervision and cooperation in this work.*

Also, my sincere thanks and appreciation to **Dr. Manal Said Abd-El Hamid,** *Lecturer of Physiology, Faculty of Medicine, Ain Shams University, for her active participation and tremendous efforts in this study.*

Last but not least I would like to express my hearty thanks to Head of Physiology Department and Professors, Colleague and Workers for their support till this work was completed.

Dedication

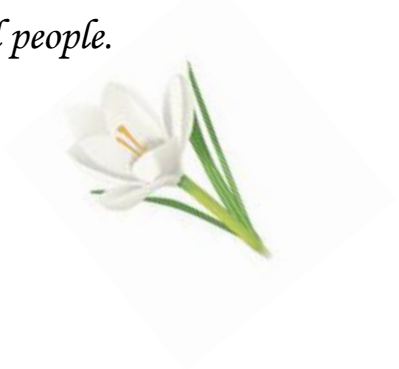
This work is dedicated to . . .

The soul of my beloved father Abdulhamid, to whom I owe everything I ever did in my life and I will achieve and making me the person, I am now, Mercy and peace upon him.

The soul of my father in physiology, Professor Dr. Mahmoud Hany Ayobe, because of his support I am encouraged to build up my career, Mercy and peace upon him.

My family, for always being there for me and my Lovely Kids (Noureldeen & Amna) for being the light of my life.

Finnaly, I would like to express to great respect and appreciation to my country Libya for financial support, asking Allah to help me in favour of all people.



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List of Abbreviations

Abb.	Full Name
AGEs	*Advanced Glycation End Products*
AKT	*Serine / Threonine Protein Kinase*
ALANO	*Alanine nitric oxide signaling pathway*
BMI	*Body mass index*
CS	*Caesarean section*
DAG	*Diacyl Glycerol*
EC	*Effective concentration*
eNOS	*Endothelial Nitric Oxide Synthase*
GDM	*Gestational diabetes mellitus*
GLUT	*Glucose Transporter*
HBP	*Hexosamine biosynthetic pathway*
HMG coA reductase.	*3-hydroxy-3-methyl-glutaryl-CoA reductase*
IL	*Interlukin*
IP	*Intraperitoneal*
IP3	*Inositol triphosphate*
IR	*Insulin Receptor*
MCP	*Monocyte chemoattractant protien*
MDA	*Malondialdehyde*
MLCK	*Myosin light -chain kinase*
MLCP	*Myosine light-chain phosphatse*
MODY	*Maturiy onset diabetes of the young*
NFAT	*Nuclear factor of the activated T-cell*
NO	*Nitric Oxide*
NOGPs	*Non oxidation glycation products*
NOS	*Nitric oxide synthatase*
NOX	*NADPH oxidase*
OGTT	*Oral glucose tolerance test*
ONOO	*Peroxynitrite.*
PARP	*Poly ADP-ribose polymerase*
PGE2	*Prostaglandin E2*
PI3K	*Phospotidylinositol 3 Kinase*