

عبد الوهاب  
محمود

29

# **COMPLICATIONS OF REGIONAL ANALGESIA IN OBSTETRICS**

**Essay**

*Submitted in Partial Fulfillment of  
M. S. Degree in Anaesthesia*

By

**Samy Anwar Hassan**  
(M. B., B. Ch.,)

**Supervised by**

Prof. Dr. **Mohamed Abdel-Galiele Sallam**

*Professor of Anaesthesiology & ICU*  
**Faculty of Medicine**  
**Ain Shams University**

Assist. Prof. Dr. **Mohamed H. Sayed El-Kott**

*Assistant Professor of Anaesthesiology & ICU*  
**Faculty of Medicine**  
**Ain Shams University**

**Faculty of Medicine**  
**Ain Shams University**

**1998**





بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

سُبْحَانَكَ لَا إِلَهَ إِلَّا أَنْتَ الْعَلِيمُ الْحَكِيمُ

إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ

سورة البقرة ٣٠ آية ٣٢



## **Acknowledgement**

First of all, Thanks to Allah for blessing this work until it has reached its end, as a part of his generous help throughout my life.

I wish to express my deep gratitude, thankfulness and deepest appreciation to my Professor Dr. **Mohamed Abdel-Galiel Sallam**, *Professor of Anaesthesiology and ICU, Faculty of Medicine, Ain Shams University*, under whose guidance and constant supervision, this work has been prepared.

Also, I wish to acknowledge my appreciation and gratitude to Dr. **Mohamed Hassanien S. El-Kott**, *assistant Professor of Anaesthesiology and ICU, Faculty of Medicine, Ain Shams University*, for his continuous encouragement and valuable suggest

**Samy Anwar Hassan**

**July, 1998**



# *Contents*

	<i>Page</i>
<i>Introduction</i>	1
Innervation of the Birth Canal	3
Anatomical and Physiological Consideration for Regional Analgesia	7
Maternal Physiologic Changes During Pregnancy and Labour	18
Pharmacology of Local Anaesthetics	24
Minor Regional Technique	39
Techniques of Regional Analgesia	46
Complications of Regional Analgesia and their Management	72
<i>Summary</i>	114
<i>References</i>	120
<i>Arabic Summary</i>	





## ***List of Tables***

<b><i>No.</i></b>	<b><i>Title</i></b>	<b><i>Page</i></b>
<b><i>Table (1)</i></b>	<i>Shows the pathways and mechanisms of labour pain.</i>	6
<b><i>Table (2)</i></b>	<i>Shows the functions of the groups and subgroups of of nerves fibers.</i>	15
<b><i>Table (3)</i></b>	<i>Shows intraspinal narcotic dosages for labour and delivery</i>	60

1111

## ***List of Figures***

<b><i>No.</i></b>	<b><i>Title</i></b>	<b><i>Page</i></b>
<b><i>Fig. (1)</i></b>	<i>Parturition pain pathways.</i>	4
<b><i>Fig. (2)</i></b>	<i>Shows paracervical block</i>	41
<b><i>Fig. (3)</i></b>	<i>Schematic diagram of lumbo-sacral anatomy showing needle placement for subarachnoid, lumbar epidural and caudal blocks</i>	47
<b><i>Fig. (4)</i></b>	<i>Technique of caudal analgesia.</i>	68



# ***INTRODUCTION***

