



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

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



*Effects of epidural bupivacaine with tramadol on the
duration of epidural anaesthesia and postoperative analgesia
in patients undergoing lower limb orthopedic surgery.*

Thesis submitted for

Partial fulfillment of master degree in anaesthesia

By

Salwa badr Abd Elgawad

(M.B.B.CH.)

Supervised by

Prof. Dr. **Leila Hassan Mohammed**

Professor of Anaesthesiology and Intensive Care

Faculty of Medicine

Dr, **Hany Ahmed Ibrahim Elmorabaa**

Lecturer of Anaesthesiology and Intensive Care

Faculty of Medicine

Assiut University

2002

B9144

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالَ رَبِّ اشْرَحْ لِي صَدْرِي ﴿١٥﴾ وَيَسِّرْ لِي أَمْرِي ﴿١٦﴾ وَأَحْلِلْ عُقْدَةً مِن
لِسَانِي ﴿٢٧﴾ يَفْقَهُوا قَوْلِي ﴿٢٨﴾ وَاجْعَلْ لِي وَزِيرًا مِّنْ أَهْلِي ﴿٢٩﴾ هَٰرُونَ
أَخِي ﴿٣٠﴾ أَشَدُّ بِهِ أَزْرَى ﴿٣١﴾ وَأَشْرِكُهُ فِي أَمْرِي ﴿٣٢﴾ كَيْ تَسْبَحَكَ
كَثِيرًا ﴿٣٣﴾ وَتَذْكُرَكَ كَثِيرًا ﴿٣٤﴾ إِنَّكَ كُنتَ بِنَا بَصِيرًا ﴿٣٥﴾

صدق الله العظيم



*To my beloved
family*

ACKNOWLEDGMENT

First of all, all gratitude is due to GOD almighty who guided and aided me in bringing for this thesis.

I would like to thank Pr.Dr. *Leila Hassan Mohammed*, Professor of Anaesthesia and ICU, Faculty of Medicine, Assiut University, for her kind help and keen supervision.

I would like to express my immense gratitude and appreciation to Dr. *Hany Ahmed Ibrahim Elmorabaa*, lecturer of Anaesthesia and ICU, Faculty of Medicine, Assiut University due to his kind help and step by step advicement and supervision in this research.

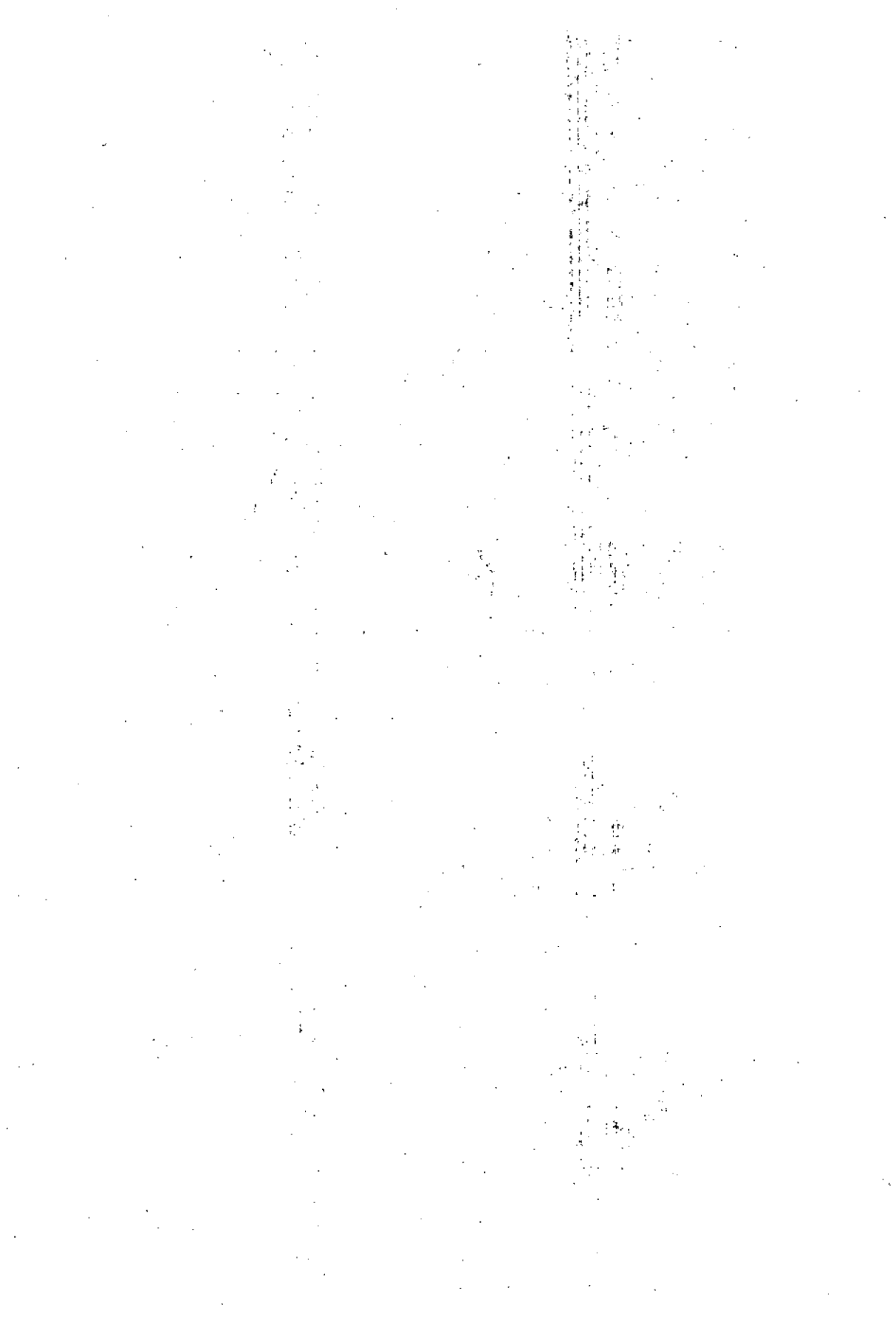
I am much indebted to Pr. Dr. *Hassan Ibrahim Mohammed Kotb*, Professor of Anaesthesia and ICU, Faculty of Medicine, Assiut University, due to his kind help and keen advices.

I would like to thank Dr. *Essam Mohammed Abd Elmgeed Manaa*, lecturer of Anaesthesia and ICU, Faculty of Medicine, Assiut University, due to his advice.

No words can be sufficient to express my gratitude and indebtedness to all staff members and my colleagues in the Anaesthesiology Department, Faculty of Medicine, Assiut University, for their valuable suggestions and cooperation.

Salwa Badr Abd Elgawad

2002



List of appreviations

ASA:	American Society of Anesthesiologists
ATP:	Adenosine Triphosphate
CGRP:	Calcitonin Gene related peptide
CVS:	Cardiovascular system
CNS:	Central nervous system
CT:	Computer topography scan
GABA:	Gamma amino butyric acid
GIT:	Gastro-intestinal tract
5-HT:	5-Hydroxy tryptamine
5-HIAA:	5-Hydroxy indole acetic acid
IASP:	International Association for Study of Pain
L:	Lumbar
LA:	Local Anaesthetic
LC:	Locus caeruleus
MRI:	Magnetic Resonant Image
MAO:	Mono-amine oxidase
NE:	Norepinephrine
NMDA:	N-methyl D-aspartat
NSAI:	Non steroidal anti-inflammatory
ON:	Order neuron
PG:	Prostaglandin
SE:	Stander error
SSRI:	Selective Serotonin Reuptake Inhibitor
USA:	United State of America
VIP:	Vaso-active intestinal peptide

