بسم الله الرحمن الرحيم

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%

بالرسالة صفحات
لم ترد بالاصل

بعض الوثائق الأصلية تالفه

EVALUATION OF BOTULINUM TYPE A TOXIN IN REJUVENATION OF THE PERIOCULAR AND THE FOREHEAD REGIONS

Thesis

Submitted for partial fulfillment of the MD degree in

OPHTHALMOLOGY.

By

Rania Ahmed Abdel Salam Al Sayed

(M.B.B.Ch., M.Sc. Cairo University)

Under supervision of

DR. MOHSEN EMAD EL-DIN SALEM.

Professor of Ophthalmology,

Faculty of Medicine, Cairo University.

DR. EHSAN MOHEB EL-MEHELMY.

Assistant Professor of Ophthalmology,

Faculty of Medicine, Cairo University.

DR. YEHIA MAHMOUD SALAH EL-DIN.

Assistant Professor of Ophthalmology,

Faculty of Medicine, Cairo University.

Faculty of Medicine,

Cairo University

2003

بسم الله الرحمن الرحيم

قالوا سبحانك لا علم لنا إلا ما علمتنا

إنك أنت العليم الحكيم

صدق الله العظيم

سورة البقرة آية ٣٢

جامعة القاهرة / كلية الطب
الدراسات العليا

محضر

اجتماع لجنة الحكم على الرسالة المقدمة من

الطبيب / رانيا أحمد عبد [illegible]

توطئة للحصول على درجة الماجستير / الدكتوراه

فى طب العين وجراحتها

==========

تحت عنوان : باللغة الانجليزية : Evaluation of Botulinum type A toxin in rejuvenation of the periocular and the Forehead regions

باللغة العربية : تقييم سم البوتولينيوم فى تجميل منطقتى ما حول العين والجبهة

بناء على موافقة الجامعة بتاريخ ٢١ / ٦ / ٢٠٠٣ تم تشكيل لجنة الفحص والمناقشة للرسالة المذكورة أعلاه على النحو التالى :-

١. أ.د. محسن عماد الدين سالم كلية الطب جامعة القاهرة عن المشرفين
٢. أ.د. هشام عزت نصر كلية الطب جامعة القاهرة ممتحن داخلى
٣. أ.د. طارق توفيق أبو النصر كلية الطب جامعة بنها ممتحن خارجى

بعد فحص الرسالة بواسطة كل عضو منفردا وكتابة تقارير منفردة لكل منهم انعقدت اللجنة مجتمعة فى يوم الاثنين بتاريخ ١٤ / ٧ / ٢٠٠٣ بقسم قاعة الاحتفالات مدرج بالكلية VIP بكلية الطب – جامعة القاهرة وذلك لمناقشة الطالب فى جلسة علنية فى موضوع الرسالة والنتائج التى توصل اليها وكذلك الأسس العلمية التى قام عليها البحث .

قرار اللجنة : عرضت الرسالة الموضوع عرضاً جيداً فى مائة ستة وثلاثين صفحة شاملة مائتين واحد وأربعين مرجعاً مرجعياً وعدد ستة وثلاثين صورة توضيحية وعشرين جدولاً واشتملت على ملخص باللغة العربية وتبين من نتيجة الدراسة أنه يمكن استخدام مادة البوتولينيوم فى علاج التجاعيد بصورة آمنة وقد أوصت اللجنة بقبول الرسالة

توقيعات أعضاء اللجنة :-

المشرف الممتحن	الممتحن الداخلى	الممتحن الخارجى
[signature]	[signature]	[signature]

عصام

ABSTRACT

Key words: Botulinum toxin type A, Botox.

Hyperfunctional lines

Background: Botulinum toxin type A is a neuromuscular blocking agent produced by Clostridium botulinum bacterium. It acts by preventing the release of acetylcholine, thus leading to chemodenervation of striated and smooth muscles. It is now widely used in treatment of hyperfunctional or dynamic facial lines.

Objectives: Evaluating botulinum toxin type A in rejuvenation of the periocular and forehead regions as regards dose, efficacy with and without the use of EMG guidance as well as complications.

Participants and methods: Forty patients with hyperfunctional wrinkles in the upper third of the face were injected with Botox with and without EMG guidance. Botox was diluted with 2ml preserved saline. Wrinkles were graded at rest and action. Doses and injection sites varied according to the region treated.

Results: Its effect starts by the second day and can last up to five months after the first injection. The difference between pre and post injection grading was highly significant. No difference in the outcome was obtained with the use of EMG. Best results were obtained in crow's feet and least in frown lines. Best response was obtained in age group below forty years. Prolonged effect was noticed on repeated injection. Complications, though temporary, were minimal and patient satisfaction was high.

Conclusion: Botulinum toxin type A in rejuvenation of the upper face is an effective simple procedure that can be used for hyperfunctional lines and can be done as an outpatient procedure. Proper patient selection and evaluation is mandatory.

ACKNOWLEDGEMENT

First and foremost, thanks are due to **ALLAH** *the most merciful and benevolent for helping me not only to accomplish this work but throughout my whole life.*

Words fail to express my deepest gratitude to all my supervisors for their support and invaluable advice.

My sincere appreciation goes to **Prof. Dr. Mohsen Emad El din Salem,** *Professor of Ophthalmology, Faculty of Medicine, Cairo University for his kindness, precious advice, continuous encouragement and guidance throughout the preparation of this work.*

I am deeply grateful to **Prof. Dr. Ehsan Mohsb El Mehelmy,** *Assistant Professor of Ophthalmology, Faculty of Medicine, Cairo University who helped me a lot with this work. Her patience, guidance, sincere help and meticulous comments have enlightened my way throughout this work.*

Special thanks go to **Prof. Dr. Yehia Mahmoud Salah El-din** *Assistant Professor of Ophthalmology, Faculty of Medicine, Cairo University for inspiring me with the idea of this work. He provided me with endless cooperation, effort and support. His comments were always beneficial and meaningful.*

Also I would like to thank **Prof. Dr. Mona El Lewindy,** *Professor of Public health, Faculty of Medicine, Cairo University for her great effort in performing the statistical analysis of this thesis.*

Words are never enough to show my appreciation to my dear parents, my first teachers in life who provided me with great love and care. They guided and supported me all through my life.

I am deeply grateful to all my Professors and colleagues in unit 16 for their invaluable help and support throughout this work till its end. Special thanks to Dr. **Ahmed Shalabi** *for his great help during editing this work.*

I am also thankful to all my patients who were keen to help me. They were committed to this work and provided me with every minor detail.

LIST OF CONTENTS

LIST OF FIGURES

LIST OF TABLES