

**CONCLUSION**

**AND**

**RECOMMENDATIONS**

## **CONCLUSION AND RECOMMENDATIONS**

- Screening of infants less than one year old should be an integral part like vaccination for early prevention of consecutive amblyopia.
- The methods used in screening are objective, simple to perform and well tolerated by tested infants and children.
- Prevalence of congenital eyelid anomalies is of a considerable rate at early childhood age.
- Screening of all infants for congenital eyelid anomalies could be a rule during their regular vaccination time.
- Training of primary care physicians for eye screening can help in more early detection of congenital eyelid anomalies.
- Evaluation of risk factors especially positive family history and positive associated diseases need further work.
- A larger specimen and further research is needed for the accurate detection of congenital and developmental eyelid anomalies in Alexandria.

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# **PROTOCOL**

مصدق  
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**PREVALENCE OF CONGENITAL AND DEVELOPMENTAL  
EYELID ANOMALIES IN ALEXANDRIA MAIN  
UNIVERSITY HOSPITAL**

معدل انتشار عيوب الجفن الالقية والتطورية في المستشفى الجامعى الرئيسى  
بالاسكندرية

Protocol of a thesis submitted  
to the Faculty of Medicine  
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In partial fulfillment of the  
requirements of the degree of  
**Master of Ophthalmology**

خطة بحث مقدمة  
لكلية الطب  
جامعة الإسكندرية  
إيفاء جزئياً  
لشروط الحصول على درجة  
الماجستير في طب وجراحة العين

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For her experience in the field of pediatric  
ophthalmology

وذلك لخبرتها في مجال عيون الاطفال



## INTRODUCTION

Congenital and developmental eyelid abnormalities are among the most challenging problems encountered by the reconstructive surgeon.<sup>(1)</sup>

Eyelid abnormalities in children may present at birth as a result of abnormal embryogenesis (congenital) or they may occur at later stages as the child matures (developmental). These eyelid abnormalities include entropion, ectropion, ptosis, lid retraction, epicanthal folds, blepharophimosis, colobomas, cryptophthalmos and canthal dystopias.<sup>(1)</sup>

If the lid covers a part of the visual axis, the child's visual development can be affected which could lead to amblyopia. This may occur in a child with ptosis if the lid is drooping severely enough to block vision or cause astigmatism. Ptosis can also hide a misalignment or crossing of the eyes which can also cause amblyopia. If not treated early in childhood the child's vision will be permanently reduced as a result.<sup>(2-4)</sup>

Additional considerations include social factors regarding the child's self-awareness of their deformities and specific anesthetic concerns related to their pediatric problems which are often multisystem in nature.<sup>(5)</sup>

Infants may develop entropion due to infection or even muscle weakness, but it's more likely to be a result of congenital epiblepharon or congenital entropion. Either one of these congenital conditions are likely to result in incorrect development of the lower eyelid's retractors.<sup>(6)</sup>

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Some of eyelid malformations are rare as coloboma and congenital ectropion, but its early detection can lead to early detection of multisystem anomalies.<sup>(7)</sup>

The worldwide incidence of congenital anomalies is estimated as 3-7%, but actual values varies widely between countries.<sup>(8)</sup>

The pediatric population has unique ophthalmologic needs. Challenges that are intrinsic to the detection of eye disease in the pediatric children to describe symptoms that indicate pathology. These difficulties highlight the importance of screening in the pediatric population.<sup>(9)</sup>

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### AIM OF THE WORK

The aim of the work is to study the prevalence and modalities of treatment of congenital and developmental eyelid anomalies in patients attending the pediatric ophthalmology clinic in Alexandria University Main Hospital.

JR?

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**SUBJECTS**

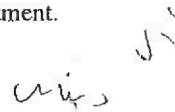
Screening of all the patients attending the ophthalmology pediatric clinic of Alexandria Main University Hospital under age of 15 years during a period of six months beginning from December 2013.

 M. H. J. P.

## METHODS

In this study we will assess the prevalence, relative frequency and nature of congenital eyelid malformations among Egyptian infants and children as well as the associated maternal, parental and neonatal risk factors.

- Detailed history taking as regards age, sex and family history.
- History of other congenital anomalies.
- Full ophthalmologic examination to detect lid and other ocular anomalies.
- Referral of the discovered cases to the oculoplastic unit for further assessment and treatment.

## ETHICS OF RESEARCH

### Research on human or human products:

- Prospective study: informed consent will be taken from patients. In case of incompetent patients the informed consent will be taken from the guardians.
- Retrospective study: confidentiality of records will be considered.
- DNA/genomic material: informed consent for DNA / genomic test and for research will be taken from patients. No further test will be carried out except with further approval of committee and patients. If the samples will travel outside Egypt the researcher will be responsible for transportation and security approval.
- All drugs used in the research are approved by the Egyptian Ministry of Health.

### Research on animal:

- The animal species are appropriate for the test.
- After test, if animal will suffer, it will be euthanized and properly disposed.
- After operation, it will have a proper postoperative care.

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## RESULTS

The results will be tabulated and analyzed to fulfill the aim of the work.

 *Miss J.P.*

## DISCUSSION

The findings of the study will be discussed in the view of achievement of the aim. The significance of the findings and their comparison with other works in the same field of research will be discussed.

 M. K. J. P.

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# **ARABIC SUMMARY**

## الملخص

الأطفال هم بهجة الحياة بما لهم من قيمة خاصة للعالم. الكشف المبكر علي عيونهم له اهمية خاصة ويمثل تحديات عدة. وتتمثل هذه التحديات في كثرة اعدادهم وعدم قدرتهم على التعبير عن اعراضهم المرضية. ومن هنا تتمثل اهمية المسح الطبي لعيون الاطفال.

ويسير المسح الطبي لعيون عيادة عيون الاطفال على نفس طرق ومناهج كل انواع المسح الطبية. وهذا ما دعي منظمة الصحة العالمية الي ارساء قواعد لأي مسح طبي وتشمل أن يكون المرض له معدل انتشار معقول وله تأثير سلبي علي صحة الانسان.

ويساعد الاكتشاف المبكر والعلاج لحالات تشوهات الجف الخلقية علي منع حدوث كسل لعيون الاطفال ويساعد علي ثبات حدة الابصار.

وكان الهدف في هذا البحث هو دراسة مدي انتشار وطرق علاج تشوهات الجفن الخلقية والتطورية. واجرى الفحص بطريقة بسيطة وسريعة وسهلة التنفيذ وتقبلها بشكل جيد من قبل المرضى بعد اخذ موافقة شفهيته من اسرهم وتم الفحص في عيادة عيون الاطفال بالمستشفى الرئيسي الجامعي لكليه طب الاسكندرية في الفترة بين ديسمبر ٢٠١٣ حتي مايو ٢٠١٤

وقد شملت الدراسة ٩٤٨٤ طفلا تتراوح اعمارهم ما بين اسبوعان وخمسة عشر عام بمتوسط ٣,٦٣ عام واسفرت الدراسة عن اكتشاف العيوب الخلقية والتطورية للجفن في ثمانين مريضا باجمالي ٩٩ عينا مما يمثل معدل ثمانية اطفال لكل الف طفل ولم يكن هناك اختلاف جوهري لنسبه حدوث التشوهات في كلا الجنسين من الاطفال كما لم توجد اي علاقه بزواج الاقارب بين الابوين. وقسمت الحالات الي ثلاثة مراحل عمرية :

شملت المرحلة العمرية اقل من سنة ٢٨٤٥ طفلا (٥٦٩٠ عين) بلغ عدد التشوهات ستة وعشرين عينا بمعدل انتشار ٤,٦ لكل الف ممثلا ٢٦,٣ % من اجمالي الاعين المصابه بتشوهات العين الخلقية مقسمين كالتالي: ٣ اعين مصابه بارتخاء الجفن، ١٠ اعين مصابه بالشقاق، ١٠ اعين مصابه بالكيس الجلدي، عين واحدة مصابه بالعين الارنبية وعينتان مصابتان ب تباعد الموقين.

وشملت المرحلة العمرية من سنه الي اقل من خمس سنوات ٣٣١٩ طفلا (٦٦٣٨ اعين) بلغ عدد التشوهات ستة وثلاثون عينا بمعدل انتشار ٥,٤ لكل الف ٣٦,٤ % من اجمالي الاعين المصابه بتشوهات العين الخلقية مقسمين كالتالي: ٢١ اعين مصابه بارتخاء الجفن، عين واحدة مصابه بالشقاق، عين واحدة مصابه بكيس جلدي، عين واحدة مصابه ب ورم وعائي دموي، عينتان مصابتان ب التصاق ملتحمي، ٤ اعين مصابه ب متلازمة كون رومانو و ٦ اعين مصابه ب ورم شحمي جلدي

وشملت المرحلة العمرية من خمسه الي اقل من عشرة اعوام علي ٢٢٨١ طفل (٤٥٦٢ اعين) بلغ عدد التشوهات تسعه وعشرون عينا بمعدل انتشار ٦,٣ لكل الف ٢٩,٣ % من اجمالي الاعين المصابه بتشوهات العين الخلقية مقسمين كالتالي: ٢٦ اعين مصابه بارتخاء الجفن، عين واحدة مصابه بالشقاق وعينتان مصابتان بكيس جلدي.

وشملت المرحلة العمرية من عشره الي اقل من خمسه عشر عاما علي ١٠٣٩ طفل (٢٠٧٨ اعين) منهم ٨ اعين مصابه بتشوهات الجفن بمعدل انتشار ٣,٨ لكل الف ٨% من اجمالي الاعين المصابه بتشوهات العين الخلقية مقسمين كالتالي: ٤ اعين مصابه بارتخاء الجفن، عينتان مصابتان بكيس جلدي وعينتان مصابتان بازواجيه الشعر.

# الملخص العربي

## لجنة الإشراف

.....  
أ.د./ هشام فاروق ادريس  
أستاذ طب وجراحة العين  
كلية الطب  
جامعة الإسكندرية

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أ.د./ نهال محمد الشقنقيرى  
أستاذ طب وجراحة العين  
كلية الطب  
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**المشرف المشارك**

.....  
د./ دينا على حسن  
مدرس طب وجراحة العين  
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# معدل انتشار عيوب الجفن الخلقية والتطورية في المستشفى الجامعى الرئيسى بالاسكندرية

مقدمة من

ايمان محمد مصيلحى

بكالوريوس الطب والجراحة - جامعة عين شمس، ٢٠٠٥

للحصول على درجة

الماجستير

فى

طب و جراحة العين

موافقون

.....

.....

.....

لجنة المناقشة والحكم على الرسالة

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## معدل انتشار عيوب الجفن الخلقية والتطورية في المستشفى الجامعى الرئيسى بالاسكندرية

رسالة علمية

مقدمة إلى كلية الطب- جامعة الإسكندرية  
إستيفاء للدراسات المقررة للحصول على درجة

الماجستير

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طب و جراحة العين

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بكالوريوس الطب والجراحة - جامعة عين شمس، ٢٠٠٥  
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