Relation between Episiotomy and Risk of Perineal Lacerations in a Subsequent Vaginal Delivery

Thesis Submitted for Partial Fulfillment of a Masters degree

In obstetrics and gynecology

By

Nanis Sobhy Ibrahim

M.B.B.Ch (2003)

Faculty Of Medicine Ain-Shams University

Under the Supervision of

Prof. Dr. Gamal Gamal Eldin Youssef

Professor of Obstetrics and gynecology

Faculty Of Medicine

Cairo University

Dr. khaled Abd Elmalek Abd Elmaksoud

Assistant Professor of Obstetrics and Gynecology
Faculty Of Medicine
Cairo University

Dr. Omneya Moustafa Helal

Assistant Professor of Obstetrics and Gynecology
Faculty Of Medicine
Cairo University
2009

المناخ المناح ال

THE THELZ ENTER

المعلى ال

سورة البقرة الآية٣٢

Acknowledgment

I would like to express my deep gratitude to professor **Dr. Gamal Gamal Eldin Youssef** for his unforgettable valuable guidance and advice all through the preparation of this theses.

I am extremely indebted to professor **Dr. khaled Abd Elmalek Abd Elmaksoud** for his kind assistance, his greet enthusiasm and support.

Lastly, but not the least, thanks to **Dr. Omneya Moustafa Helal** for her continuous support and encouragement during supervising cases presented in this book.

Dr. Nanis Sobhy M.B.B.ch Ain-Shams Uneversity 2003.

Contents:

pag	e
ڭ ــــــــــــــــــــــــــــــــــــ	
ڭ	
ڭــــــــــــــــــــــــــــــــــــ	
INTRODUCTION1	
AIM OF THE WORK4	
REVIEW OF LITERATURE:6	
Chapter (1): Anatomy of female perineum	
Chapter (2): What is episiotomy?19	
Chapter (3): Complications of episiotomy27	
Chapter (4): Perineal lacerations	
Chapter (5): what is alternative to episiotomy?39	
PATIENTS & METHODS48	
RESULTS51	
DISCUSSION62	
SUMMARY & CONCLUSIONS71	
REFRENCES75	
ARABIC SUMMARY85	;

Abbreviations

(χ²) Chi square
I.B.WInfant birth weight.
I.P.IInter pregnancy interval.
P value probability.
SD Standard deviation.
SPSS Statistical Package for the Social Science

List of tables

Review: page	
Table (1): Relation of Lacerations to Type of Episiotomy in 7,675 Primiparous Women2	4
Result:	
Table (1): Shows the comparison of the two groups as regards patient characteristics 52	
Table (2): Shows comparison of the tow groups as regards Induction and correlation between induction of labor and local examination after delivery	1
Table (3): Shows comparison between the two groups as regard Analgesia and correlation between analgesia and local examination after delivery	
Table (4): shows the of comparison of the two groups as regard History of previous laceration and the correlation between history of lacerations after the previous labour & the local examination after this labour	ons
Table (5): Shows comparison between the tow groups as regard Local examination before labour. 58	1
Table (6): comparison between tow groups as regard the examination after 2 nd birth.)

List of figures:

Review: page	÷
Figure (1): Muscles of the female perineum	9.
Figure (2): Anal sphincter.	13.
Figure (3): levator ani from inside	.15.
Figure (4): Infiltration of perineal tissue with local anesthetic	.25.
Figure (5) Repair of episiotomy	.26.
Figure (6): Perineal massage.	41.
Figure (7): Epi-No Childbirth and Pelvic Floor Muscle Trainer	.45.
Figure (8) A Kegel exerciser.	46.
Results:.	
Figure (1): Ptient characteristics (Age, I.B.W, I.P.I)	53.
Figure (2): comparison between the two groups as regard examination after the 2 nd	
labor	54.
Figure (3): correlation between induction and perineal outcome	56.
Figure (4): correlation between analgesia and perineal outcome	57.
Figure (5): correlation between local examination after labour & history of laceration	ons after
previous labour	59.
Figure (6): correlation between local examination before and after delivery:	61.

Abstract

Episiotomy is an intentional surgical incision of the perineum after informed consent with the aim of increasing the soft tissue outlet dimensions to help with childbirth.

It is not advocated for every delivery and the rate of episiotomy depends on the philosophy and judgment of the caregiver.

Episiotomy is advocated when anterior tears with bleeding or multiple perineal tears appear. When there is fetal distress it is carried out to expedite delivery.

It facilitates instrumental vaginal deliveries although the need for an episiotomy is less with ventouse deliveries and a distensible perineum. If the delivery process is delayed and it is thought to be due to a rigid perineum an episiotomy may facilitate delivery.

Whenever there are vaginal manipulations needed such as in some assisted breech deliveries and in cases of shoulder dystocia an episiotomy may be useful, Those women who had a previous pelvic floor or perineal surgery may also benefit by an episiotomy.

Keywords:

Relation between Episiotomy Risk of Perineal Lacerations Subsequent Vaginal Delivery

introduction

INTRODUCTION:

Introduction:

Despite a recent decrease in episiotomy rates in the world, it remains one of the most likely surgical procedures a woman will undergo during her lifetime (Weber AM et al, 1997).

The episiotomy, a surgical incision in the perineum made to enlarge the vaginal opening and facilitate delivery, was originally introduced as a method assumed to improve maternal and neonatal outcomes and rapidly became a part of standard obstetric care (*Banta D et al, 1983*).

However, since the 1980s, routine use of episiotomy has been challenged, based on the lack of evidence of benefits of the procedure (*Thacker SB et al,1983*) and the publication of multiple studies reporting increased blood loss at delivery, perineal scar breakdown and infection, postpartum pelvic pain, and dyspareunia. (*Carroli G. et al, 2000*).

Recent studies have also demonstrated increased incidence of third- and fourth-degree lacerations associated with the use of midline episiotomy. (*Klein MC*, *et al*, 1994).

The resulting damage to the internal and external anal sphincters can lead to devastating long-term sequelae, including fecal incontinence and rectovaginal fistulae. (*Haadem K*, *et al*, 1987).

INTRODUCTION:

Among reported benefits of episiotomy, some clinicians have claimed that meticulous repair of a surgical episiotomy yields improved wound healing when compared with an unpredictable spontaneous laceration. (*Carroli G, et al, 2000*).

This assertion, however, has not been substantiated by empiric evidence. (*Eason E, et al, 2000*).

This raises the following concern; not only is there no proven benefit to episiotomy, but the suggestion is that this procedure may result in weakened tissue, more susceptible to injury in a subsequent delivery. (*Fitzgerald MP,et al, 2007*).

Although episiotomy is a well-established risk factor for third- and fourth-degree perineal laceration through extension of the surgical incision at the time of delivery, there are very limited data on the effect of episiotomy on the risk of obstetric laceration in subsequent deliveries. (*Dandolu V et al*, 2005).

Aim of the work

Aim of the work:

The primary goal of our study is to examine the relationship between episiotomy without extension in the first vaginal delivery and risk of spontaneous obstetric laceration in a subsequent delivery.

Review of literature