Sterilization (Tubal Ligation)

Layla Abdul Amir Medical College, Babylon University

Abstract

In my practice of 19 years in gynacology and obstetrics in Hilla General Hospital and Babylon Hospital for Maternity and Children. I have done nearly 800 cases of tubal ligation, but it was difficult for me to involve all these cases and I selected randomly 100 patients (those who come for regular visits or seeking advice for many reasons). The very strong indication for tubal ligation were repeated caesarean section.

I noticed that most of the patients were happy and satisfied with the operation although about 70% of them had side-effects and complications which were simple and treated accordingly.

The main complaint was menstural disorder mainly menorrhagia.

Only 5 cases ended by hysterectomy few years later.

Few couples seek for reversal of operation because of change of their situation (death of one more of the children or death of the husband).

This operation found to be safe and effective with low rate of mortality and morbidity.

Failure rate although is minimum, but it is reported in 2 cases in our research both of them done at time of caesarean section by Madlener technique.

Introduction Sterilization

When they consider their family complete more couples are now choosing sterilization of one partner as their contraception method. In India and elswhere it is the major brith control method employed (Southam 1973). Baird in 1966 reported from berdeen that 7.2% of women over 30 years of age and a quarter of women with five or more had been sterilized.

These groups still from the majority of cases (Borland 1973) but recent series quote an incident of tubal ligation between 20-25% of live birth (Edwars & Hakanson 1973). Pueperal sterilization accounted for 80% of 902 operation reported by

(meclin et al - 1976) only 1.955 been performed at pregnancy termi-

nation. This contrasts with a Danish series where 85% of the operation were at the time of operation (Hoffmeyer et al 1967).

In western countries more emphasis is placed on e of several contraceptive methods available rather than as the last resort when other methods have failed.

a growth content and the content of

More requests are now received from patients in higher socioeconomic groups and from women from lower age and parity. In their mid thirtieth, many couples who have relied on the pill or intruterine device wish to consider sterilization.

As a consequence more centers are performing sterilization, many gynaecologists provide a vasectomy service and new tehniques involving short stay in patient or out patient surgery have further encouraged demand.

Material and Methods

In my practice (my experience of 19 years from 1977 to 1996) in gynaecology and obestetrics in Hilla Genrai Hospital and Babylon Hospital for Maternity and Children. I have done nearly 800 cases of abdominal and vaginal sterilization, but because of difficulty in collecting the whole data on them. I randomly selected 100 cases for the purpose of this study. The age group varied from 23 up to 45 years from various types of socio-economicstate and different occupations.

on by the researcher while 38 were referred toher by other doctors.

All the patients were admitted to the hospital and both partners agreed to do the operation (see advice and discussion before operation).

Indications

- 1- There are no absolute indications.
- 2- Very strong ones are repeated caesarean section.

The grown and property of the state of the s

Harry Harry Commence of the All I

- 3- Chronic disease of wife.
- 4- where future pregnancies would carry an unacceptably high risk of fetal deformity or death.
- 5- Physical risk to the mother pregnancy and child birth.
- 6- Probable effect on her well-being and on that of her husband and existing family.
- 7- A history of psychiatric illness.
- 8- It was formerly accepted that the women should be thirty or more years old and have two living children (in our society at least two living males), but execptions certinaly occur.
- 9- Sterilization in nulligravida is to be approached with extreme caution.

CONTRACTOR MAN DESCRIPTION OF SECULAR

Advice and Discussion Before Operation and the preceded by 1- Operation should be preceded by discussion with both partners.

21- Historial, in a latitus on somic accompanion of the second property of the second prope

3- The probable stability of the union is to be assessed as well as the efficiency with which other stable contraceptive methods would be used.

2- Very strong ones are repealed

4- Discussion toples mustinelude male and female sterilization and the place of the pillion intra atterine device as an alternative.

4- where future premancies - would

The essentially inveversable naturemon sterilization is hould be stressed but it is only fair that the stressed but it is only fair that the should be mentioned in Britain it is not necessary for reference into this possibility to appear in the line constant from (cf Moodruff and Pauertien 1969). The pairent and spouse should then give their written informed witness consent.

Pout that beigesom vision to the Route, Withing and Trype of Operation with the blo street the Ceneral and the control and the

Sterilization operation may be performed at Laparotomy, mini Laparotomy, laparoscopy, coloptomy, vaginal hysterectomy or hysteroscopy. The rout and timing may result from the opportunity provided at caesarean section, pregnancy

Mithedibroids prodapse, we know ic plewiczepsis or menowhagia bysterectomy may deligation may be simply, and satisfactorily performed under local amesthesia, or sepidural block used for delivery within 24 hours of the bight as the local and satisfactorily within 24 hours of the bight last out as the best of the bight was the bottom.

Others adovocates operating on the fourth or fifth day but it has been argued that this would increase theuriskupfithrombosise and embohism, may fear mot seon fixmed to by or (Turngrie hooper 1917) hill and have relied on the pilt or intruteries mon Quithe fifth day there viscoften histological evidence of acute tubal inflammation, but bacterilogical evidence if the infection has been found indessatham halfvordSporeetal 1970; Mustato & Pinkervon 1970) and mmorbidity dosernot quincrease when the beauthour fifthudays is vehousen (Phatak 1972). Each case must however, be considered separatly and sterilization of 16 weeks should be appropritate for some round in m

mi (3201 or 7771 mort stray 01 milli The death rate from the death of over 5,000 kases being the death of t

In Our Research

The majority were done through:

- 1- Laparotomy at the time casarean section.
- 2- Efective mini laparotomy during puerperium 5 cases.
- 3-The use os small cusco's speculum inserted into the peritoneal cavity through a mini laparotomy

6 cases

4- Colpotomy during operation of prolapse 2 cases

Thechinques of Sterilization Tubal Sugery

The tubes may be approached by laparotomy, mini laparotomy, laparoscopy, colpotomy or hysteroscopy. The tendency towards smaller abdominal meisions to minimize time spent in healing has been assissted by the use of proctoscope inserted into the peritoneal cavity (Stevenson 1971) by using new instruments of mgeniuos design and by using an intra uterine canual to manipulate the uterus (Uchida 1973). Tubal ligation or ligation with resection may be performed.

Tubes may be crushed with or without ligation the stumps follow-

ing ligation (of the fimbrial end of the intact tube as a temporary measure), can be buried extraperitoneally. The isthmic portion of the tubes and uterine cormua maybe excised together or the whole of both tubes can be excised.

The oviduets may be coaglated by diathermy or by bipolar electrodeand can be divided following cagulation. Their abdominal ostia may be plugged and the plugs retained by spring clips.

The Techniques of Sterilization

Madlener Technique Pomeroy Technique Irvine Technique

Marin State

Follow up

First visit we ask the patient to come one week after the operation, then 6 weeks or if any complication arises. Regular visits every 3-6 months for the first year every 6 months for the subsequent years.

Follow up is often difficult becase of the small number who can be contacted, but in our research those 100 patients were attended to the hospital or private clinic because of various sid-effects and complications.

مجلة جامعة بالل /العلوم الطائية / الجلد ع/العدد ع:٧٠٠٠ محمد

Side Effects and Complications

dobacežtati s Sanb nes die pas odi

141931

tas, the cares but of some restance was a small restance of the care of the ca

and necessity concession to the sec

mistisado cara edada cancionação e

Region diam in the control to a position of the control of the con	Number	Percentage
171Haematoma after caesarean section	тов дикологија " _{коло} 12	
2-JUnilateral or bilateral pain at site of ligation, in the first few days or months after the operation.	J. J. W. M. J. W. J. D.	i fra aq 5% i Suni Escrea A ltock togi (dice

Late

and more of Section and access.

A Related to Menstruation

Number

Percentage

Menorrhagia (heavy period)

Irregular uterine bleeding

Oligonorrhoea

Premature menopausal syndrom

Percentage

1 1%

1%

1%

1%

1%

مجلة جامعة بابل /العلوم الطبية / الجلد ي/العدد ٤: ١٩٩٧

Contract Contraction

В	Related to plevis	:	Number	Percentage	
1	Severe pain		10. 10.15 (1. 11. 11.17 (1.80)	18%	
2	Dysmenorrhoea		2	2%	
3	Dysparunia		1500 × 5 0 00 0	5%	
4	Pelvic mflammatory disease	1,	6 1 1 1 5 1 1 1 4 1 4 1 1 1 1 1 1 1 1 1 1		
5	Backache			2%	
6	Prolapse of Uterus		5 141 .	5%	
7	Retroverted uterus	r	1	1% 20	
		4 .			
	en de la composition de la composition La composition de la				

Remote

		the species of the state of	
٠, ,		Number	Percentage
1	Psychological	6	6%
2	Husband married again	1	1%
3	Patient want a child	9	9%
4	Reversal of ligation	3	3%
5	Abdominal distension (See Conclusion	1	1%
6.	Obsity	1	1%
7	Irritable colon	1	1%
		A. C.	

Conclusion.

Sterilization is a procedure which destroys the procerative function and the effect is usually permen-

Both husband and wife mustsignify in writing that they agree to the performance of the operation and the method by which it is to be done. Resection of the tube is carried out abdominally and particularly easy to perform four to seven days after delivery when the uterus is an abdominal organ and the tubes readyily accessable.

Tubal resection can also be carried out vaginaly, either during the course of another operation or as the rout of choice.

The tubes are reached through the pouch of dauglous or through the uterovesical pouch.

Vaginal tubal ligation causes the patient little pain and upset and is preferable to an abdominal operation in all cases in which the organ are reasonably accessible.

Vaginal tubal ligation is contraindicated, however, during the three months following pregnancy at which time the uterus remain large and the tubes high. Moreover, the tissues are very vascular, an alternative method is the use of laparscope which permits diathermy of the isthmic portions of the tubes under vision. This is a minor operation causing minimal discomfort, and necessitates the patient remaining in hospital for only two or three days.

- Sterilization operation in the female involve the usual risks of an invasion of the peritoneal cavity, the mortality rate being 0.13% in phisically healthy women.

Operation on the fallopian tube generally have no permanent physical ill effects and this should be emphasized to the patient and her husband. These procedures should not disturb menstruation and, ought not to influence sexual feeling and coitns.

In some cases they increase libido because both partners are relieved of the dread of pregnancy.

Previously depressed patient, those with poor sexual adjustment and whose marriage is unsound from the group in whom series psychatric segules are most like.

More operations on younger women with smaller families have resultes in more requests for reversal operations when family personal circumstances change.

Though sterilizations should be presented as a permanent procedure the possibility of later request for reversal should favour sterilizing methods which cause least tubal damage.

Result

Tubal sterilization is a safe procedure, easy but not free from complication. It carries very low porcentage of morbidity.

There was not reported cases of mortality from tubal ligation itself.

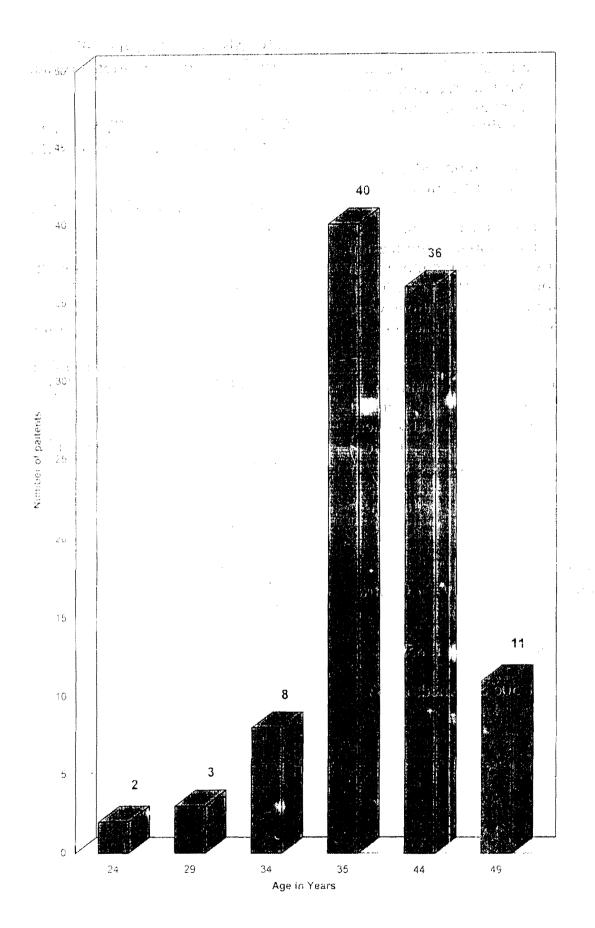
In our research the total number of patients without complication was 30 cases (30%), while those with complications was 70 cases (70%), but most of these complications were not so serious and treated accordingly.

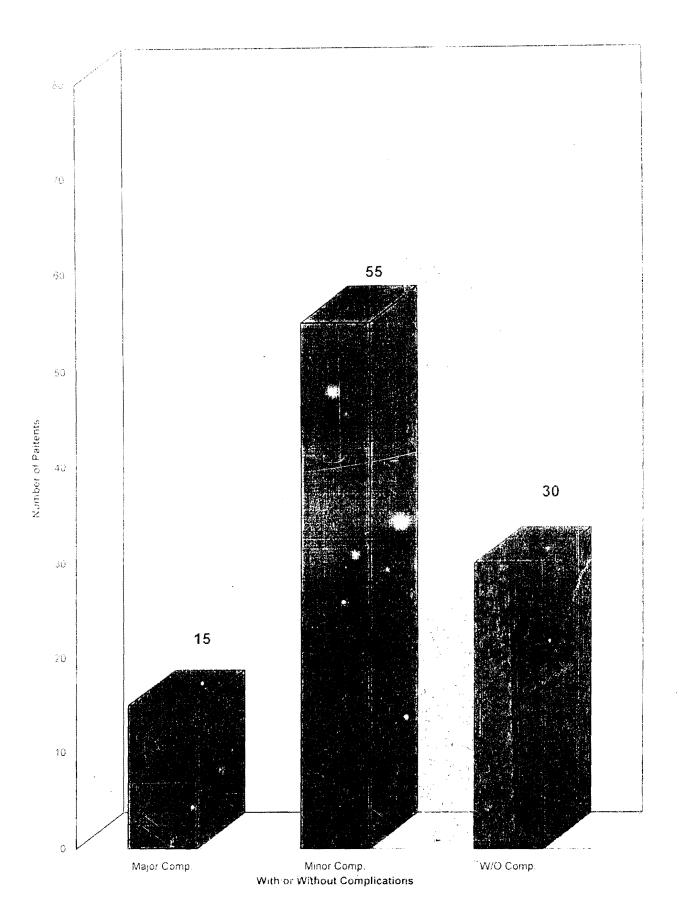
Menorrhagia was common in 30 patients, but only 5 patients ended by hysterectomy (5%). In subsequent examination of the patients studied, uterine fibroids were discovered in 5 cases (5%), ovarian cyst in cases (2%), and sinus of umblicus in 1 case (1%).

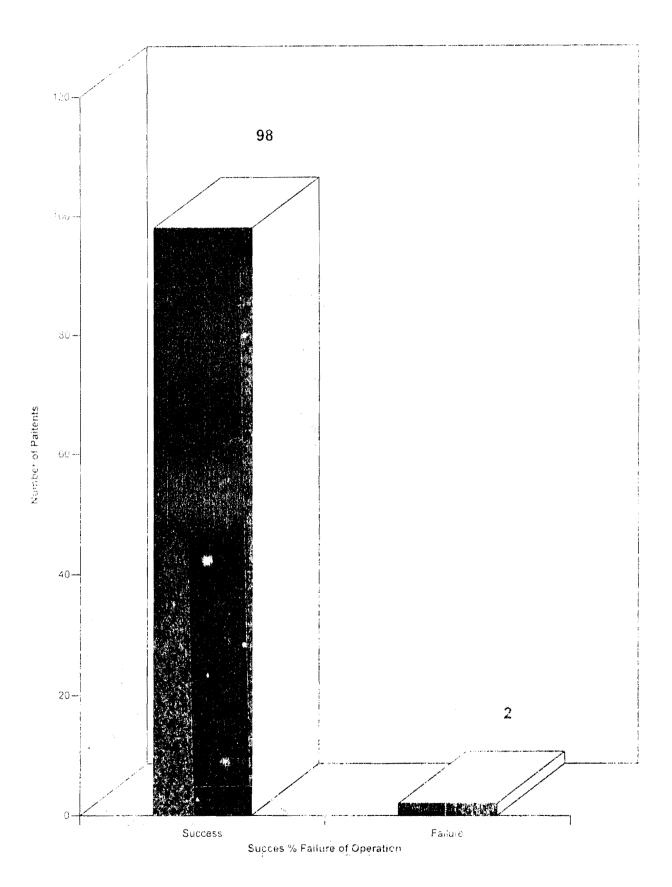
Reference

- 1- Southam 1973 Al (1973) Contraception 8,1.
- 2- Baird 1966 Br. Med J.I. 850.
- 3- Borhd 1971 50c Sci, med, 6, 163.

- 4- Edwards % Hokanson 1972 EY (1973). Ame. J. Obstet. Gynae. 115,347.
- 5- MeElin *et al* (1976) T.W. Backingham. J.C. & Johnson R.E. (1967).
- 6- Hoffmyer *et al* (1967) J. Sex Res. 3,1.
- 7-Turner & Hooper (1971) Obsest. J. Gynae Br. Common 78, 737.
- 8- Spre et al 1970 Mustato & Pinkerton 1970.
- 9- Pauerstein (1974) The Faulopian Tube Philadeliphia lea & Febiger 121.
- 10- Stevenson 1971 T.C. 1971 Ibid. 78, 273.
- 11- Uchida H. 1975 Am. J. Obsets. Gynae 121, 153.
- 12- Bonney,s gunaecology surgery 8th ed. 1975 Howkine & Stablworthy.
- 13- Principles of Gynaecology (4th ed. 1975) T.N.A. Jeffcoate.







A Committee of the second

من المراجعة الانابيب الرحمية على الرحمية المراجعية المراجعية المراجعية المراجعية المراجعية المراجعية المراجعية

The state of the s

ليلى عبد الامير كلية الطب / جامعة بابل

الخلاضة

من خلال تجربتي الطويلة خلال التسعة عشر السنة الماضية في حقل الختصاصي في مستشفى الحلة الجمهوري ومستشفى بابل الولادة والاطفال قمت بأجراء ما يقارب ٨٠٠ حالة عقد الانابيب الرحمية. ولكن من الصعوبة بمكان جمع كافة المعلومات عن جميع الحالات المذكورة ، لذلك قمت بأختيار الحالات المذكورة ، لذلك قمت بأختيار العيادة الخاصة او المستشفى لغرض المتابعة الدورية او عند حدوث مشاكل جانبية .

ولقد كان من اهم دواعي اجراء عملية عقد الانابيب الرحمية هو العمليات القيصرية المتكررة (من ٣ الى ٧ مرات) وقد لاحظت ان اغلب النساء يتمتعن بصحة جيدة ومقتنعات بالعملية عدا بعض المشاكل الجانبية (حوالي ٧٠٪) والتي

and the second of the second o

Tax, that we have red on the hear

كانت بسيطة وعولجت أنياً .

وكانت من ابرز هذه المشاكل هي اضطراب الطمث وخاصة زيادة مدة وكمية الدورة الشهرية

هناك خمس حالات فقط انتهت بأستئصال الرحم بعدة عدة سنين .

هناك عدد قليل من الازواج طلبوا ابطال عملية عقد الانابيب بسبب التغيرات الحاصلة في حالتهم مثل (موت واحد او أكثر من الاطفال او موت الزوج)

تعتبر هذه العملية مضمونة وفعالة مع نسبة قليلة جداً من المضاعفات الخطيرة والمؤدية الى الوفاة .

نسبة الفشل بالرغم من انها قليلة ولكنها سُجات في حالتين في بحثنا هذا ولقد أجريت عملية عقد الانابيب الرحمية في كلتا الحالتين اثناء العملية القيصرية بطريقة مادلينر.

 $(\mathcal{X}_{i}, \mathcal{X}_{i}) = (\mathcal{X}_{i}, \mathcal{X}_{i}) = (\mathcal{X}_{i}, \mathcal{X}_{i})$

age of the states to be a second of the