ECTOPIC PREGNANCY

(125 Cases)

by

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sent a percentage of variables but sical examination is believed to be the only a few have greater disparity of most important consideration in symptoms, signs, opinions and reports than ectopic pregnancy. It is this suspicion or being 'ectopic preginconsistency that made ectopic pregnancy both an interesting and in arriving at a correct diagnosis. challenging problem which is at times so difficult to diagnose and manage.

It has been observed by many workers that the incidence of ectopic pregnancy is increasing in recent years. This is explained by the fact that penicillin and other antibiotics are keeping more tubes with salpingitis patent, so that fertilization is possible but progress of the fertilized ova is restricted to the damaged tubes (Poddar, 1957). Treatment of genital tuberculosis is probably much more common than suspected and merits more consideration (Halbrect, 1957).

In spite of the advances in diagnosand management, methods ectopic pregnancy still remains a very serious threat to maternal

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Many pathological conditions pre- safety. An accurate history and phythe diagnosis. An acute sense of nancy conscious' helps a great deal It is a surgical emergency in which missed or delayed diagnosis outstanding contributory factor to the mortality. Culdocentesis has served as a very valuable diagnostic procedure to confirm the diagnosis (Bartzen, 1965).

The present study coraprises of 125 cases of suspected ectopic preg ancy and proved ectopic pregnancy, admitted in S.M.R. and Lady Elgin Hospital, Jabalpur, from 1963 to 1965.

Each case was subjected to complete clinical examination, particular attention was paid to history, mode of presentation, symptoms and signs present per abdomen and on bimanual examination.

Past history of patient was enquired in detail, especially history and treatment of sterility, pelvic inflammation or any abdominal operation performed.

Following investigations carried out:

(1) Haemogram, total and dif-

erential count, erythrocyte sedimentation rate, Kahn and V.D.R.L. tests.

(2) Urine examination.

(3) Culdocentesis.

(4) Histo-pathological examination of the specimen obtained at operation,

(5) Dilatation and curettage in a

few cases.

The type of surgery done in each case was decided on individual cases, considering her general condition, parity, type of ectopic pregnancy and facilities available. In few cases, auto-haemotransfusion was also given.

Patients were followed with special reference to recurrence of ectopic

The maximum number of ectopic pregnancies was in 26-30 years of age-group. The youngest patient was 16 years old and oldest was 44 years. The average was 28.77 years.

Our analysis of the parity revealed that ectopic pregnancy is quite common among nulliparous women, 24%, whilst it appeared to be rare in parity above five. The average parity being 2-3.

Predisposing and Etiological Factors:

Etiology of ectopic pregnancy is varied. The incidence of the various possible factors found in our series is presented in Table II.

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	1963	1964	1965	TOTAL
1. Number of ectopic pregnancies	40	50	35	125
2. Ratio of ectopic pregnancies to deliveries	1:70.85;	1:66.58;	1:82,51;	1:72.41;
	1.4%	1.5%	1.2%	1.38%
3. Ratio of ectopic pregnancies to intra-uterine	1:89.32;	1:84 42;	1:104.62;	1:95.64;
pregnancy	1.03%	1.18%	0.95%	1.09%
4. Ectopic pregnancy as per cent of gynaecolo-				
gical cases	0.000	4.31%	43%	3.87%

pregnancy and future gestation, specially in cases where conservative Etiological factorizery was performed.

Incidence

From the study of the above Table, it is observed that there was variation in the incidence during these three years. In 1963, the number was 40, in 1964, the figure went up to 50, but in the following years, it again fell to 35. This variation has occurred with the rise and fall of total number of deliveries in the hospital. Incidence in our series appears to be higher than commonly reported by others.

TABLE II

	cașes	Percentag	ge
(1) Long period of inferti-			_
lity, (more than 5 years)	52	41.6	
(2) Sterility	27	21.6	
(3) Salpingitis	21	16.8	
(4) Pelvic inflammation	21	16.8	
(5) Treated for sterility	18	14.4	
(6) Previous abortion	16	12.8	
(7) Previous operation	15	12.0	
(8) S.T.S. for syphilis-			
positive (K.T. &			,
V.D R L.)	11	8.8	
(9) Pueperal sepsis	50	4.0	
(10) History of tuberculosis	4	3.2	
(11) Previous ectopic-			
gestation	3	2.4	

Symptoms

The incidence of various symptoms, given by the patient on admission, is shown in Table III. It will be seen that pain in abdomen, vaginal bleeding and amenorrhoea were the most frequent complaints.

TABLE III

Symptoms:	No. of cases	Percentage	
(1) Pain in abdomen	122	97.6	
(2) Bleeding per-vaginam	79	63.2	
(3) Amenorrhoea	68	54.4	
(4) Fainting/giddiness	42	33.6	
(5) Urinary symptoms	33	26.4	
(6) Irregular menstrual—			
periods	30	24.0	
(7) Nausea/vomiting	29	23.2	
(8) Rectal symptoms	24	19.2	
(9) Weakness	20	16.0	
(10) Epigastric pain	13	10.4	
(11) Loss of appetite	10	8.0	
(12) Fever	9	7.2	
(13) Shoulder pain	8	6.4	
(14) Discharge per vaginum	8	6.4	
(15) Perspiration	6	4.8	
(16) Others	7	5.6	

Aids in Diagnosis

in Table V with frequency) were there was no time for such elaborate used as an aid to arrive at or confirm tests.

the diagnosis of ectopic pregnancy. Out of these, culdocentesis was done in 77 cases with promising results. The reasons for doing it more frequently were, it was a very simple procedure, did not require any anaesthesia, and gave high percentage of accurate results. In case of abdominal pregnancy, x-ray abdohysterosalpingography sounding of uterus were found to be very helpful.

TABLE V					
Aic	is in diagnosis:	No. of cases	Percentage		
1.	Culdocentesis done in	77	61.6		
	-Positive for unclotted blood	71	92.2		
	—False negative	6	7.8		
2.	Examined under anaes- thesia	26	20.8		
3.	X-ray abdomen	4	3.2		
4.	Hysterosalpingography	1	0.8		
5.	Sounding of uterus	6	4.8		
6.	Diagnostic curettage	7	5.6		

Biological tests for pregnancy were not undertaken due to lack of The following procedures (listed facilities. Moreover, in acute cases,

TABLE IV The accuracy of diagnosis

Diagnosis:		No. of cases			Total	December
		1963	1964	1965	Total	Percentage
(1)	Pre-operatively— diagnosed	26	31	22	79	63.2
(2)	Pre-operatively— suspected	14	17	13	44	35.2
(3)	Diagnosed only at laparotomy	Nil	2	Nil	2	1.6
	Total .	40	50	35	125	100.0

TABLE VI

4 a a a a a a a a a a a a a a a a a a a				Date of previous ope-
Operative Procedures: No			Percentage	ration: for ectopic Comments: pregnancy
	Unilateral salpingec- tomy Bilateral salpingectomy	31 12	24.8 9.6	3. 29-1-1964: — 6th para having backeric history, all pingectomy, sal- babies expired expingostomy and cept one aged 25
III.	Bilateral partial salpingectomy & salpingostomy	2	1.6	plication of round years) Normal de- ligament livery on 3-1-1965.
	Partial salpingectomy and salpingostomy Salpingectomy combine	17	13.6	4. 19-3-1964: — (Nulliparous) Nor- Left partial sal- pingectomy with 3-4-1965.
	with operations Salpingo-oophorectomy	26	20.8	anterior colporra- phy, post, colpo-
	Partial salpingo-copho rectomy with other			perineoraphy, pli- cation of round ligament
VIII.	combinations Other combinations of salpingo-ophorectomy		1.6	5. 2-6-1965: — Came to hospita Partial salpingec- again on 29-12-1965
IX.	Hysterectomy (abdo-minal)	1	0.8	tomy was carrying months intrautering pregnancy.
X.	Laparotomy*	1	0.8	pregnancy.

* Abdominal pregnancy, delivery of macerated foetus and placenta with membranes and marsupialization of sac done.

In the present series on follow-up, conception occurred in eight cases. In five, intrauterine and in the other 3, repeat ectopic pregnancy occurred.

Date of previous operation: for ectopic Comments: pregnancy				
1. 21-1-1963:	Had one abortion 5 months later, on 1-6-1963, followed by normal pregnancy and delivery on 12-10-64.			
2. 20-2-1963: Right partial sal- pingectomy with ventral suspension				

Repeat Ectopic Pregnancy 3 Cases 2.3%

	evious operation for opic Pregnancy	Repeat Ectopic Pregnancy		
1.	16-3-1964: Left salpingectomy	(Nulliparous married 12 years back) Repeat ectopic on 12-8-1964 operated on opposite tube.		
2.	10-8-1964: Partial salpingec- tomy (left) and salpingostomy	— 16-10-1964. Ectopic pregnancy (right). Third para willing for sterilization. Hys- terectomy done, with appendicectomy, right salpingo - oophorecto- tomy.		
3.	16-9-1964: Left salpingo- oophorectomy and plication of round ligament done	 10-1-1965. Right side tubal pregnancy (Marked adhesions seen) Right salpingo- oophorectomy done. 		

Hysterosalpingography was done (e.g. vague pain in abdomen; backache, leucorrhoea),

We feel that if the follow-up is extended for a longer period more concluding information can be obtained. following factors:

Mortality

The over-all morbidity was much There was only one death amongst 125 cases, mortality being 0.8%. King (1954) says that mortality is decreasing over past many years. Douglas (1951) and Ward (1951) had 0.78% and 0.7% mortality respectively in their series. Webster et al noted 0.14% mortality rate. Our figures of mortality closely parallel those of others. Mitha (1965) had reported a high mortality (2.9%).

Factors responsible for low mortality in this study are: (1) Specialist service, (2) early diagnosis, (3) quick treatment, (4) the facilities of blood transfusion, and (5) use of antibiotics.

Follow-up

Out of 125 patients in our series, 31 patients were left sterilized after surgery. In the remaining patients, a conception rate of 8.5% was recorded Five cases had normal intrauterine pregnancy, while other 3 had repeat ectopic. We believe that if the patients are followed for a longer period, a higher conception rate will emerge.

Hysterosalpingography was done after tuboplasty. Only in one case, in 3 cases after tubopalsy; in one case tubes were found to be patent. the patency of tube was demonstrat-Others who attended the hospital ed. Others who attended the hospiwere having only minor complaints tal were having minor complaints only (e.g. vague pain in abdomen, backache leucorrhoea).

> The response to follow-up in the present series was affected by the

1. Three years period of study is not enough to give opinion on future fertility of patients in our series.

2. Patients are usually reluctant to come for checkup unless severly ill.

3. Cases who delivered or aborted at home or private nursing homes could not be covered for analysis.

4. Some patients reside at long distance and have to face socio-economic factors to come for follow-up.

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