# INTRICACIES IN THE DIAGNOSIS OF EXTRA-UTERINE GESTATION WITH A CLINICAL EVALUATION OF SYMPTOMS AND SIGNS.

### IN 50 CASES AT THE J. J. GROUP OF HOSPITALS, BOMBAY

by

JULIET M. DESA SOUZA,\* M.D., F.R.C.S.

and

## OAK.\*\* M.B.B.S.

Looking back through 32 years of experience, I feel that an obstetrician nosed before rupture. I am in and gynaecologist goes through complete disagreement with Falk, three periods in life with regards who asserts that there is no pain to his ability in diagnosing an with tubal gestation until bleeding ectopic gestation. In his early years, from the tube occurs. Patients he feels he hasn't had sufficient who are intelligent enough to experience and hence has missed differentiate the pain do complain the correct diagnosis. After 15 or of abdominal uneasiness and slight 20 years, he feels he has had pain at the site of tubal gestation. sufficient experience, when he is I had a stout patient who had deceived by an ectopic, and after 2 previous abdominal sections for 20 years, he feels completely de- other reasons, and this time comfeated, when with all his experience, plained of 5 weeks' amenorrhoea, he cannot still be absolutely sure pain in the right iliac fossa, and of the diagnosis of an ectopic.

confronted with this problem as uterus. The A-Z test was positive. 3 different types: (1) Acute ectopic, vanced extra-uterine gestation.

\*Head, Dept. of Gynec. and Obst., J. J. Group of Hospitals and Hon. Prof. of Gynaecology & Obstetrics, Grant Medical College, Bombay-8.

\*\*House Surgeon Bai Motlibai & Petit Hospitals.

Paper read at the 14th All-India Obstetric & Gynaecilogical Congress 1967.

Very few cases are ever diagmarked tenderness in the right Clinically the gynaecologist is vaginal fornix and right cornu of There was no vaginal bleeding. (2) sub-acute ectopic and (3) ad- She was opened up. There was no blood at all in the peritoneal cavity but the right tube "had just a nodular prominence-1" x 1" in its isthmical portion. A linear incision was made on the prominence and an early ovum with shaggy chorionic villi, was removed (Fig. 1) and right salpingectomy was done.

The poor hospital class of patients held at Nagpur on 26/28th November do not appreciate this mild abdominal uneasiness due to contractions and

if appreciated they can be mis- or a twisted pedunculated fibroid taken for gas in the abdomen with pregnancy, is superficial. With and chronic dyspepsia due to worm a careful bimanual vaginal examinainfestation and amoebiasis. In our tion one is able to detect a well depresent series we have no case fined and tender mass in the latter, of unruptured tubal gestation.

of acute ectopic—can usually be either fornix and no palpable mass. made over the telephone-with the important triad of symptoms- greatest challenge to correct diagamenorrhoea, severe pain, some- nosis. The cardinal symptoms are: times of a bursting type, and (1) amenorrhoea, (2) vague abdocollapse. It is important to keep minal pain and (3) vaginal bleedin mind that there may be no ing. amenorrhoea, if the gestation is at the interstitial end of the tube, which ruptures early, even before Many of our patients hardly a period is missed. These cases can remember a short amenorrhoea have to be distinguished from a of 5-6 weeks, and hence we had ruptured appendix, or a perfora- 14 cases (28%) without history of tion of a viscus, e.g. peptic ulcer amenorrhoea and 8 cases with or intestinal perforation. In our doubtful amenorrhoea series of 50 cases we collected from the surgical wards where 9 cases from the surgical side, amenorrhoea was not mentioned opened up as appendicitis or ruptured in history and one case of ameappendix and 3 cases diagnosed norrhoea of only 2 days. The pain as intestinal perforation. The in- is a constant ache with acute exacercreasing pallor of the patient with bations. Pressure on the abdominal a rising pulse and falling blood wall worsens this pain while it pressure clinches the diagnosis. relieves the pain in intestinal Pulsation in the fornix is very colic. variable. Unlike perforation of a viscus and peritonitis there is no Vaginal bleeding: marked rigidity of the lower abdomen in ectopic but only a mild than not mistaken for irregular menguarding. There may or may not struation, especially since it is scanty be vaginal bleeding. We had one and brownish. Quite often the bleedcase of severe haemorrhage from ing is very profuse and can then be a corpus luteum diagnosed as easily mistaken for an intra-uterine acute ectopic. Acute haemorrhagic abortion. We had one case admitted pancreatitis is fortunately rare, but as tubo-ovarian mass following an it also cannot be diagnosed clini- abortion when it was really an ectocally from an acute ectopic. The pic sac. The bleeding however is

distension of the tube and even cyst, with or without pregnancy, while with an acute ectopic, there is The diagnosis of a clinical case only very marked tenderness in

The subacute ectopic poses the

#### Amenorrhoea:

collected

The vaginal bleeding is more often resemblance to a twisted ovarian always painful and never painless and hence metropathia haemorrha- ovarian mass adheres to the uterus gica or functional bleeding should and the cervix may be soft with never be considered in the differential congestion, and irregular and profuse diagnosis.

after 2 or 3 attacks of pain and bleed- is of no value. In both cases there ing, but bits of decidua, if looked for may be temperature. The A-Z test if microscopically, without chorionic positive may help but if negative is tissue can be found in 30% of valueless. Colpo-puncture will help cases. Fainting attacks and giddi- only if blood is fluid and collected in ness were present only in 2 of our the pouch of Douglas. cases. Rectal tenesmus should make intra-ligamentary gestation, or where one think of a pelvic haematocele rarely the sac is anterior to the and not attribute it to colitis and uterus it may be wrongly negative. chronic dysentery. Dysuria and re- If pus is aspirated, it does not rule tention of urine may be present when out an infected ectopic, though the ectopic sac rarely lies anterior to frank pus would go in favour of pyothe bladder.

said to be usually associated with In 4 it was positive and helped to ectopic gestation. In our 50 cases, clinch the doubtful diagnosis. In one 15, i.e. 30%, had a sterility of more it drew out pus and the case was one than 4 years, one patient was married of pyosalpinx. In one it was a false only 6 months ago and the ectopic negative; the case was an ectopic with was the first conception, one had im- a localized peritubal haematocele and plantation of tubes performed pre- hardly any blood in pouch of viously and one gave history of some Douglas. Colpo-puncture is said to operation for sterility.

wrongly diagnosed as salpingo- possible. oophoritis or pyosalpinx. If the Very often we have to try the ectopic sac be of long standing therapeutic test. If with antibiotics and infected, then the diagnosis and rest, the pain subsides and becomes almost impossible. The mass gets smaller; the diagnosis ectopic mass is said to be very is in favour of a tubo-ovarian tender, ill-defined, and of varied inflammatory mass but with an consistency; so can a salpingitic ectopic mass there is not much sac be. In an ectopic, if the cervix difference. In fact, under observais soft and blue, and the uterus tion, the mass may get bigger slightly enlarged, it may be of help, and the patient paler, suggesting but with a retroverted fixed uterus strongly further haemorrhage into and a tubo-ovarian mass, it is very an ectopic sac. We encountered difficult to guage the correct size of one such case. uterus. The uterus may appear to be Hence salpingitis, salpingo-oophoslightly enlarged, because the tubo- ritis or a tubo-ovarian mass is

menstruation. A differential leuco-Expulsion of a decidual cast is late, cytic count in an infected ectopic In cases of salpinx. Colpo-puncture was per-A long period of sterility is formed only in 6 of our cases. infect the sac, and if positive a The sub-acute ectopic is mostly laparotomy should follow as soon as

7

the most common condition that fornix, especially if there is vaginal is sometimes impossible to differ- bleeding due to threatened abortion. entiate from a sub-acute ectopic. Here even the A-Z is positive. I had With all our experience, to open a case where the abdomen was openand see, seems to be the only ed and as soon as the uterus was method of diagnosis. Seven of our anteverted the lateriflexion of the cases were opened up with a wrong diagnosis and 6 with a doubtful diagnosis of ectopic i.e. in 26% of cases, the diagnosis was ectopic and proved on laparotomy to be salpingo-oophoritis, tubo- mistakes. Two cases were opened ovarian mass or pyosalpinx.

An incarcerated ovarian cyst or a degenerating fibroid in posterior wall of uterus with pregnancy are very well defined and not easily mistaken for a pelvic haematocele. In 2 of our cases, the ectopic was, however, wrongly diagnosed, one as a fibroid and the other as an ovarian cyst. In 2 others the diagnosis was doubtful, more in favour of a fibroid or an ovarian cyst and both were ectopics.

An examination under anaesthesia is a *must* in diagnosing sub-acute gestation.

A pelvic haematocele can be mistaken for an incarcerated gravid uterus tending to abort. But, a careful examination under anaesthesia will show the cervix to be pushed downwards and forwards under the symphysis pubis and a little friction of the mass with the fingers in the posterior fornix will make the uterus contract (Palmer's sign) and its continuity can then be easily traced with the cervix.

Uterine pregnancy with lateral flexion of uterus is very difficult to be diagnosed from a subacute

pyramidal uterus assumed its shape and the mass in the posterolateral fornix disappeared. Fortunately, this pregnancy went to term.

Obstinate constipation often causes in the surgical wards as cases of subacute intestinal obstruction and turned out to be ectopic gestation.

Tuberculosis in our country is often associated with sterility. Because of history of treatment in the past for tuberculosis of lungs, abdomen and spine, 3 of our cases were wrongly diagnosed as ileocaecal tuberculosis and tubercular peritonitis and found on operation to be cases of ectopic gestation.

Advanced ectopic gestation is rarely met with. In 50 cases we had only one, with 6 months' amenorrhoea. History of an earlier attack of acute pain, vaginal bleeding and attacks of giddiness is significant of the primary rupture. The hard nonpregnant cervix should attract attention. In the last trimester the foetus is easily palpable per abdomen and often lies in abnormal positions. But in the second trimester the ectopic sac can be mistaken for an ovarian cyst, fibroid and pregnancy in a horn of a double uterus. The separate uterus can be identified by the passage of a sound or injection of lipiodol and an x-ray will show the foetus in abnormal position in the abdomen in marked flexion or extension. In our ectopic mass in the postero-lateral case it was mistaken for an ovarian

402

cyst, as the foetus was small and lay posterior. The sac with placenta could be easily removed.

# Conclusion

Fifty cases is much too small a number from which to draw any conclusions but it suffices to show that the correct diagnosis of an ectopic gestation is quite often almost impossible.

We had 2 very interesting cases opened up for ectopic: (1) Intrauterine pregnancy with threatened abortion and right salpingo-oophoritis. (2) Normal pregnancy with no pathology in the abdomen.

It is often wise when in doubt just to wait and watch, rather than rush to a laparotomy.

In our series of 50 cases, collected from both the Gynaecological and Surgical departments of the J. J. Group of Hospitals, the diagnosis was wrong in 22, doubtful in 20 and correct pre-operatively only in &

This, I am sure, is not because we lack in clinical acumen but merely because our patients do not give us proper history, the diagnosis of an ectopic is very intricate as it can imitate so many conditions so that even years of experience do not help often to make one very sure.