

International Journal of Applied Sciences and Biotechnology

A Rapid Publishing Journal

ISSN 2091-2609



Available online at:

http://www.ijasbt.org & http://www.nepjol.info/index.php/IJASBT/index

Indexing and Abstracting

CrossRef, Google Scholar, Global Impact Factor, Genamics, Index Copernicus, Directory of Open Access Journals, WorldCat, Electronic Journals Library (EZB), Universitätsbibliothek Leipzig, Hamburg University, UTS (University of Technology, Sydney): Library, International Society of Universal Research in Sciences (EyeSource), Journal Seeker, WZB, Socolar, BioRes, Indian Science, Jadoun Science, Jour-Informatics, Journal Directory, JournalTOCs, Academic Journals Database, Journal Quality Evaluation Report, PDOAJ, Science Central, Journal Impact Factor, NewJour, Open Science Directory, Directory of Research Journals Indexing, Open Access Library, International Impact Factor Services, SciSeek, Cabell's Directories, Scientific Indexing Services, CiteFactor, UniSA Library, InfoBase Index, Infomine, Getinfo, Open Academic Journals Index, HINARI, etc.

CODEN (Chemical Abstract Services, USA): IJASKD

Vol-2(3) September, 2014



Impact factor*: 1.422

Scientific Journal Impact factor#: 3.419

IC Value: **4.37**

*Impact factor is issued by Universal Impact Factor. Kindly note that this is not the IF of Journal Citation Report (JCR).

#Impact factor is issued by SJIF INNO SPACE.



ISSN (Online): 2091-2609 DOI Prefix: 10.3126/ijasbt

International Journal of Applied Sciences and Biotechnology

Case study

PERITONEAL TUBERCULOSIS IN PREGNANCY: A RARE OCCURRENCE

(IJASBT)

Priti Anand1* and Mukul Bindra2

¹Vedanta Hospital, Reengus, Rajasthan, India ² Department of Surgery, NIIMS Medical College and Hospital, Jaipur, Rajasthan, India

Corresponding author email: Pritianand09@rediffmail.com

Abstract

Extrapulmonary tuberculosis is least common form of tuberculosis in pregnancy, early diagnosis of which will help to reduce maternal and neonatal morbidity and mortality. My patient is 25 years old primigravida admitted with Ascitis, Anorexia, low grade fever on and off. Diagnosed as peritoneal tuberculosis after abdominal fluid sent for AFB culture. Patient was given Antitubercular treatment. Ascitic fluid gradually declined and pregnancy moved on but patient landed up in preterm labour and delivered baby which the pediatrician was unable to save because of extreme prematurity.

Key words: peritoneal tuberculosis; hypertension; ascites; pregnancy

Introduction

Extra pulmonary tuberculosis is a least common form tuberculosis in pregnancy (Loto and Awowole, 2012). I present here a case of pregnancy with peritoneal tuberculosis. Objective of my presentation is early diagnosis and early treatment of such misdiagnosed patients in order to reduce maternal and neonatal morbidity and mortality.

Case History

My patient is a primigravida, 25ys old, belongs to low socioeconomic status with 24 wks pregnancy, abnormally increasing abdominal girth since 2 months, severe discomfort in last 10-15 days, dull aching abdominal pain, low grade fever on and off, anorexia.

She has similar complaints since 1-2 months. She was seen by a practitioner 1 month back, was recorded with a high BP 160/100mmHg and was started antihypertensive. She reported to the same practioner about 15 days ago and was advised termination because of increasing ascites attributing to high BP. Patient and attendants refused for termination

She visited us with chief complaints of abdominal discomfort and fever.

On examination, she was lean and thin with marked abdominal distension, normal temperature and Blood pressure

Per abdomen examination -- abdomen distended, uterus found as if floating in fluid about 22-24 weeks in size, fluid thrill present, dullness on percussion. Laboratory investigation showed decreased Hb, leucocytosis, normal platelet count, ESR markedly raised, CRP high, CA-125 marginally raised, HBsAg and HIV negative, RFT, LFT and Urine microscopy normal.

Sonography revealed -Fluid in abdomen and peritoneal thickening. Fetus- Single live fetus 23 weeks, No adenexal mass. It was decided to tap abdominal fluid under USG guidance and sent for examination.

Ascitic fluid examination-lymphocytosis, raised proteins, No malignant cells, ADA value raised 76IU/ml.

Patient now has well controlled BP, no edema, no finding in urine, no other sign and symptoms of high BP. Patient has no past or family history of adnexal mass, no adnexal mass in USG, CA-125 though raised was not supporting malignancy.

Why Abdominal Fluid?

What Clinched Diagnosis of Tuberculosis?

- 1. Localised collection
- Family history of tuberculosis under treatment
- 3. Raised ascitic fluid ada levels.

So decision for diagnostic laparoscopy was made: 2 liters of peritoneal fluid drained, peritoneal biopsy taken.

Histopathology confirmed chronic granulomas caseous necrosis and multinucleated giant cells.

Patient was started on Anti tubercular treatment HRZE for 2 months and HRE for 4 months.

Pregnancy was continued, patient was discharged on request after 10 days with proper counseling to take medicines regularly and on her next visit after 2 weeks - abdomen soft, 26-28 wks gestation.

Patient reported after 10 days of second visit with pain abdomen and leaking per vagina. On examination 28 wks pregnancy with 5-6 cm dilatation, membrane absent. She delivered a premature baby was kept in NICU because of low birth weight and respiratory distress. Unfortunately we lost the baby after 2 days of NICU care. .

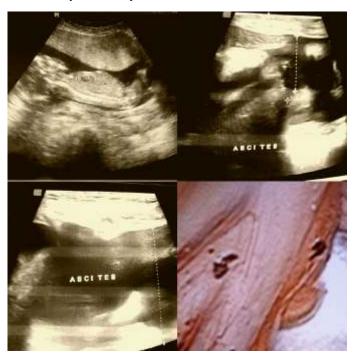


Fig. 1: Sonography of fetus, ascitic fluid and laparoscopy picture

Discussion

It is challenging to diagnose tuberculosis in pregnancy because of the non-specific nature of early symptoms of infection such as malaise and fatigue, which may be attributed to pregnancy, the normal weight gain in pregnancy may temporarily mask the associated weight loss (Effern, 2007; Maddineni and Panda, 2008; Adhikari, 2009).

High level of suspicion is required to diagnose tuberculosis in pregnancy with proper history exploring the risk factors of T.B and enquiry about symptoms suggesting infection (Effern, 2007; Maddineni and Panda, 2008; Adhikari, 2009).

Extra pulmonary T.B contributes to 50% of cases in pregnancy according to recent study (Knight M, Kurin czuk JJ, Nelson Piercy C, Spark.P, Brock lehurst P, 2009).

Peritoneal tuberculosis occurs either because of hematogenous spread of active lung infection or reactivation of latent infection (Marshal JB , 1993). Peritoneal tuberculosis should be suspected in ascitis during pregnancy it is difficult to identify peritoneal tuberculosis in pregnancy by radiological evaluation and laboratory. Accurate diagnosis requires histopathological examination of specimen obtained by image guided biopsy or exploratory laparotomy or diagnostic laparoscopy.

Obstetric complication of tuberculosis include include spontaneous abortion, preterm labour, LBW, increased neonatal mortality (P.Ormerod, N.K. Jain, J. Kishan, Sailaja, and S.Kaur 2001).

So early diagnosis and early treatment are key to healthy mother and baby.

Conclusion

So, we recommend thorough history and high degree of suspicion to diagnose tuberculosis in pregnancy. This will not only decrease burden of disease in population but will also decrease neonatal and maternal morbidity and mortality.

References

Adhikari M (2009) Tuberculosis and tuberculosis/ HIV coinfection in pregnancy. *Semin Foetal Neonatal Med*; **14:** 234-240. DOI: 10.1016/j.siny.2009.02.001

Effern LS (2007) Tuberculosis and pregnancy. *Curr. Opin. Plum. Med.* **13**: 205-211. DOI: 10.1097/MCP.0b013e3280f6ceee

Jain NK (2001) Safety of anti-tuberculosis drugs in pregnancy,o' in Proceedings of the National Conference on Pulmonary Diseases (NAPCON), vol. 33, Mumbai, Maharshtra

Kishan J, Sailaja, and Kaur S (2001), Tuberculosis and pregnancy o' in Proceedings of the National Conference on Pulmonary Diseases (*NAPCON*), vol.**33**, Mumbai, Maharshtra...

Knight M, Kurin czuk JJ, Nelson Piercy C and Spark. P (2009) Brock lehurst P. *Tuberculosis in pregnancy in the U.K. BJOG*, **116**: 584-588. DOI: 10.1111/j.1471-0528.2008.02097.x

Maddineni M and Panda M (2008) Pulmonary tuberculosis in a young pregnant female: challenges in diagnosis and management. *Infect Dis. Obstet. Gynecol*, **2008**: Article ID 628985, 5 pages

Marshal JB (1993) Tuberculosis of Genital Tract and Peritoneum. *Am. J. Gasterentrol.* **88**: 989-999.

Olabisi ML and Ibraheem A (2012) Tuberculosis in Pregnancy: A Review. *Journal of Pregnancy*, **2012**: Article ID 379271, 7 pages, DOI: 10.1155/2012/379271

Ormerod P (2001) Tubercculosis in pregnancy and puerperium, o'Thorax, **56**(6): 494-499.