In this study our main goal is to understand the incidence, socio epidemiological and etiological factors of intrauterine fetal death. This reparative study was conducted in the gynaec and obstetric department of Mymensingh Medical College Hospital and Holy Family Red Crescent Medical College Hospital of Dhaka City from November 2018 to October 2019. A total 1736 pregnancy were studied. Out of them 48 we intrauterine fetal death (IUFD). Early identifying of underlying risk factors & diagnosis and timely intervention in the form of medical or surgical treatment will definitely help in reducing the morbidity and mortality of intrauterine fetal demise.

Keywords: Ectopic Pregnancy, techicardia, hypotention, cervix.

INTRODUCTION

Fetal death is an obstetric death accounting for approximately half of perinatal death. Stillbirth is an event which has always challenged the obstetricians. The mode of antenatal & the intrapartum surveillance for fetal wellbeing has advanced in last few decades [1]. There are so many maternal conditions and diseases that are responsible for poor obstetrical outcomes. Stillbirth is an useful index to measure the values of antenatal and intranatal care. By proper antenatal check-up and to identify the high-risk cases associated with poor outcomes can be sorted. Many patients take admission in tertiary hospitals, among them 72% are multigravida and only 22% are primigravida [2]. These cases are being reported as there are some cases having definite causes that might be prevented, as well as some other cases with unexplained causes having no symptoms ever before the tragic incident. The aim of this study was to analyze the maternal conditions associated with fetal death with specific reference to clinical presentations, fetal, and maternal complications and to find the preventable causes of fetal death [3].

IUFD a tragic event for both parents occurs in both early and late pregnancy. Perception of fetus within the uterus for several days or months when not realised by the patient which might be due to IUFD, because of deprivation of oxygen of umbilical cord or during difficult delivery process. The death is indicated by the fact that after such expulsion or extraction, the fetus doesn’t breath or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscle. The heart beat is to be distinguished from the transient cardiac contraction; respirations are to be distinguished from fleeting respiratory efforts or gasps. Some other IUFD might occur even before delivery. Death of the fetus during delivery is termed as ‘still born’ and when fetus die in the uterus before labour begins. It can be expressed in another way like this, death of the fetus within the uterus after the age of viability or after 20 weeks of pregnancy. Patient may not realise the event or the bad thing may come in seen suddenly when the doctor examines. Sometimes patient feels fetal movement immediately before delivery. In this case, fetus can die during delivery occurs due to asphyxia or difficult labour stress. According to the Centre for Disease Control and Prevention fetal death occurs in 26 out of every thousand births of Bangladesh. One in every 200 pregnant women in developed countries was reported to have a still born baby after 28 weeks of gestation. About one in every four IUFD is due to of unknown aetiology. Causes of fetal death includes-

MATERNAL

Prolonged pregnancy (>42 wks.), Diabetes (poorly controlled), Systemic lupus erythematosus, Antiphospholipid syndrome, Infection, Hypertension,
Preeclampsia, Eclampsia, Hemoglobinopathy, Advanced maternal age, Rh disease, Uterine rupture, Maternal trauma or death, Inherited thrombophilias [8].

Fetal
  Multiple gestations, Intrauterine growth restriction, Congenital abnormality, Genetic abnormality, Infection (i.e. parvovirus B19, CMV, Listeria), Hydrops

Placental
  Cord accident, Abruption, Premature rupture of membranes, Vasa previa, Fetomaternal hemorrhage, Placental insufficiency

Risk factors
  Advanced maternal age, previous history of fetal demise, Maternal infertility, History of small for gestational age infant, Obesity, Paternal age.

**Fig 1:** Intrauterine fetal death from November 2018 to October 2019

**CASE REPORTS**

A 29 years old primigravida lady was referred to our 500 bedded specialized hospital from outside private chamber with absence of fetal movement for 2 days. She had raised blood pressure. She was not a booked case and was in antenatal checkup irregularly. Regarding family history both of her parents were hypertensive.

She also was a hypothyroid since last 2 years and was on medication. She also had a history of diarrhea and vomiting for 5 days. According to LMP her EDD was on 9th September, 2019

**Fig 2:** Macerated still born fetus

All modalities under general examination revealed no abnormalities except raised blood pressure of 200/120 mmHg, she was mildly anemic and edematous. Per abdominal examination revealed symmetrical enlargement of abdomen about 28cm which was slightly smaller than her gestational age. Fetal movement was absent and no fetal heart sound was audible even with Doppler machine. Her serum uric acid level was 5.6 mg/ml, alkaline phosphatase was 116.0 U/L, LDH 590 U/L and coagulation profile was within normal limit. Other blood reports revealed no abnormalities. Ultrasonogram of abdomen reported 28 weeks of pregnancy with IUFD.

Another 25 years old second gravida was hospitalized at her 39 weeks of pregnancy with absence of fetal movement for 1 day. She had lower abdominal pain for 4 hours. No fetal heart sound was audible with Doppler machine after admission. Ultrasonogram was done immediately that revealed intrauterine death, hence was diagnosed as a case of intrauterine fetal death of 37 weeks of maturity. On abdominal examination uterus was about full term in size with cephalic presentation and head was engaged, hence diagnosed as second gravida 39 weeks of pregnancy with IUFD with unexplained etiology.

**Fig 3:** Fresh still born baby

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CONCLUSION

Hypertensive disorder in pregnancy or family history of hypertension or any crisis in pregnancy such as acute vomiting of diarrhea, high fever should be carefully evaluated. The possibility of vascular disease or other hematological causes or electrolyte imbalance should be excluded. These patients should be dealt with multidisciplinary team to optimize this tragic outcome and ensure comprehensive management. Since strong family history of hypertension is less responsive to treatment, early identification and management of crisis is recommended. Improved application of current knowledge may help to decrease the fetal death rate caused by fetal growth retardation. Awareness of hypertension, diabetes mellitus, thyroid dysfunctions, history of congenital abnormalities and other risk factors can play a major role to prevent such mishap therefore contribute to build a healthier future generation.

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