CASE REPORT

MIXED CONNECTIVE TISSUE DISORDER WITH PREGNANCY
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ABSTRACT: Mixed connective tissue disease (MCTD) is a term involving the features of lupus systemic sclerosis, polymyositis, rheumatoid arthritis and high titre of anti ribonucleoprotein (RNP) antibodies, exact etiology is not known. It is characterized by microvascular damage, immune system activation leading to inflammation and excessive deposition of collagen in the skin, lungs, heart, gastrointestinal tract and kidneys. The females are being more affected especially after childbirth attributed to the hypothesis of microchimerism, the pathogenesis being a two way migration of fetal cells through the placenta. It cannot be cured completely but treatment with corticosteroids is helpful. ACE inhibitors are useful in renal involvement and hypertension. We had a case of mixed connective tissue disorder in a patient aged 28 years with 12 weeks of gestation for medical termination of pregnancy (MTP) and permanent sterilization. The complications are preeclampsia, preterm labor, fetal growth restriction, eclampsia, thrombocytopenia and infections like pneumonia, sepsis like syndrome and the maternal mortality rate is 325/100000. This is a unique case of MCTD wherein we had limited cutaneous disease like CREST-calcinosis, Raynaud’s phenomenon, esophageal involvement, sclerodactyly and telangiectasia of a lesser degree. So early diagnosis and timely intervention is advocated to prevent complications.

KEYWORDS: Mixed connective tissue disorder, Pregnancy, Termination of pregnancy.

CASE REPORT: A patient aged 28 years gravida 4 para 2 live 2 abortion 1, and last child birth was two and half years ago with 12 weeks of gestation referred from dermatology department for MTP with sterilization. Patient had typical skin involvement like cutaneous systemic sclerosis, diffuse cutaneous skin thickening, rash which was photosensitive, difficulty in swallowing, Raynaud’s phenomenon (cold induced digital ischemia), epigastric burning sensation, dysphagia. No renal involvement. Patient was anemic. Blood pressure was normal. Investigations showed platelet counts, clotting time, bleeding time, liver function test, thyroid function test, renal function test, total count and differential count as normal.

X-ray chest and ECHO showed left ventricular hypertrophy. Patient had investigations pertaining to MCTD done prior to admission in the dermatology department like Antinuclear Antibody (ANA), Anti- RNP, Anti Sm and skin biopsy which confirmed the diagnosis of MCTD and was on corticosteroids and hydroxyl chloroquine for the past 2 years. In view of the MCTD with pregnancy to prevent exacerbation of the disease during pregnancy hence the patient was taken up for MTP and sterilization. The post-operative period was uneventful and referred back to dermatology department to continue the treatment.

DISCUSSION: MCTD is an autoimmune disease with autoantibodies affecting multi organs like skin, joints, kidneys, lungs, liver and nervous system. It is more common in women, it may be diagnosed for the first time during pregnancy and the incidence is 10-30% of cases. In our patient the disease was first diagnosed when she was pregnant last time 2 years ago when she had spontaneous abortion.
and she had fatigue, weight loss, arthralgia, arthritis and the typical skin changes. She had ANA screening test, Anti-RNP and autoantibodies to double stranded DNA (dsDNA).

She had a skin biopsy done which proved MCTD. So for the past 2 years she is on hydroxychloroquine and prednisolone 1-2mg/kg/day and tapered the dosage gradually. During pregnancy MCTD flares up the disease and may progress to abortion, preeclampsia, HELLP syndrome, eclampsia, premature delivery, anemia, intrauterine growth retardation (IUGR) and maternal mortality is increased due to renal failure, hypertension and cardiopulmonary complication.

Fetal mortality is 20%. The vasculopathy nature leads to reduced placental blood flow; hence perinatal mortality is increased.

Some patients might have difficulty in opening the mouth during intubation so epidural anesthesia is preferred over general anesthesia and also aspiration due to esophageal dysfunction such patients is an added complication and worse complications are hypertension, renal failure, cardiopulmonary complications like pneumothorax, pulmonary fibrosis. In addition to this there are cases reported of babies with chondrodysplasia punctata born to MCTD mothers with high titre anti-RNP.

Previously the patient had spontaneous abortion two years ago just before this present pregnancy and she was diagnosed to have MCTD 2 years ago and was under treatment. MCTD causes abortion due to the vasculopathy nature of the disease. The fetal wastage is increased in MCTD. Just like neonatal lupus syndrome due to crossing of maternal antibodies the fetus can have fetal hemolytic anemia, thrombocytopenia, leukopenia and congenital heart block. So also in systemic lupus erythematosus (SLE).

The incidence of MCTD with pregnancy is 1 in 22000 pregnancies, oral contraceptives may flare up the symptoms, intrauterine contraceptive devices (IUCD) may cause infection and the barrier methods which are advised may not be followed. Hence in view of the life threatening complications in the mother as well as the fetus, termination with permanent sterilization is the best choice.

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