Abstract

Pregnancy-related stroke is, fortunately, a rare event. Pregnancy is a prothrombotic state during pregnancy and for approximately 6 weeks after birth, all women are at increased risk of thromboembolic disease. A 20 year old primigravida with ectopic pregnancy and stroke was admitted at ACPM, Medical College, Dhule. Emergency Exploratory laparotomy was done. Stroke was successfully managed and patient recovered.

Keywords: Ruptured ectopic pregnancy, Stroke, Hyperhomocysteinemia.

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Case Report

A 20 Year old primigravida residing at Lonkheda taluka Shahada, presented with amenorrhea of 1 month and 4 days. She was admitted in our hospital (ACP M Medical college Dhule) with chief complains of:

1. Pain in lower abdomen since 8 days, which was dull aching and gradually increased in intensity.
2. Vomiting since 3 days.
3. Headache since 1 day, which was shooting in type.
4. Weakness in left lower limb, which gradually increased, and followed by left upper limb.

She was married since 4 months. Her last menstrual period was 2nd May 2008.

Examination

General condition was poor (Table 1). Pulse 100/min, low volume, all peripheral pulses were normal. BP: 80/60 mm Hg, Pallor: +++.

There was no icterus/cyanosis/clubbing/lymphadenopathy/edema over feet.

Investigations

Hb — 6.5 gm%, CBC — 7000/cmm, P — 68%, L — 27%, E — 3%, M — 1%, B — 1%, platelet count was normal. BT, CT, PT were normal. Sickling test was negative. Anticardiolipin, lupus anticogulant, antinuclear antibody was negative. Homocysteine level was >20 micromol/l (N-5-15 micromol/l). Pregnancy test was positive. USG abdomen was suggesting ruptured ectopic pregnancy with hemoperitoneum. A hypoechoic with internal echoes area and free fluid in abdomen and pelvis was seen suggesting rupture ectopic pregnancy.

MRI angiography was normal.

Management

Emergency exploratory laparotomy was done, Laparotomy finding was ruptured ectopic pregnancy at ischemic region and hemoperitoneum.

Total salpingectomy was done on right side and material send for histopathologic examination. Irrigation of abdomen was done. Drain was put in pouch of Douglas. Patient was shifted to ICU for further management.

In ICU following treatment was given — injection Fragmin 5000 units SC, started after 24 hours of operation continued for 7 days. Tab aspirin 75 mg per day, tab trental 300 mg twice per day. Injection nootropil 800 mg tid, tab neurobion forte 1 od.

Physiotherapy was given.

Patient was in ICU for 11 days, then shifted to Gynaec ward and managed with antibiotics and folic acid and vitamin B12 successfully.

Recovery of power—left side on both upper and lower limb.
Histopathological Report

Products of conception with choriodecidual tissue was seen in lumen of fallopian tube. Evidence of tubal perforation with chronic inflammatory reaction was also evident.

DISCUSSION

The risk of ischemic stroke, intracerebral hemorrhage and subarachnoid hemorrhage are not increased in the 9 months of gestation, except for high risk in the 2 days prior and 1 day postpartum period. In our patient, ischemic stroke was in first trimester. The important causes of stroke during pregnancy including pre-eclampsia eclampsia embolism rupture of cerebral vascular anomaly, periportum or postpartum cerebral angiopathy and cerebral venous thrombosis.

The newer risk factor which has been found is hyperhomocysteinemia due to B12 and folic acid deficiency; especially in vegans. It is associated with common pregnancy complication and adverse pregnancy outcome. In our case, patient has increased level of homocysteine.

In our case, CT showed (Fig. 1) ischemic stroke as is the case with all young onset stroke. There should be an extensive diagnostic assessment, including vascular studies of extra cranial vasseles, cardiac investigation and thrombophiliac screening. It is worth pointing out that migraine with aura is still sufficiently common in pregnancy that it should be considered in differential diagnosis.

In our case we treated with aspirin 75 mg low molecular weight heparin (LMWH), vit B12 and folic acid supplement.

While proper counseling is important history of pregnancy related stroke should not be contraindication for the subsequent pregnancy.

CONCLUSION

Although uncommon the development of stroke during pregnancy can be a challenging diagnostic and management problem.

That’s why such patients should be managed in multi-disciplinary units with rapid access to expertise in obstetrics, neurology and rehabilitation services.

Table 1: Neurological examination and progress of patient

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Fig. 1: CT scan of brain showing right-sided infarction in frontal parietal area
REFERENCES