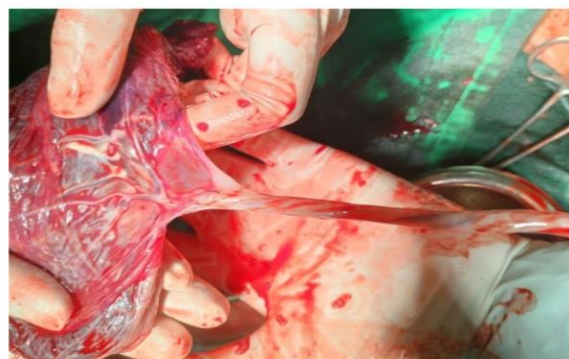


INTRODUCTION

Velamentous cord insertion is rare condition in which umbilical cord is inserted into the chorioamniotic membranes instead of placental mass. There are divergent umbilical vessels surrounded by only fetal membranes without Whartons jelly.. It is seen in 1% of singleton pregnancies and 6% in multiple pregnancies..

AIMS / OBJECTIVES

Early antenatal diagnosis of velmentous cord insertion and its outcome



CASE REPORT

A 30 year old G3A2 with 31 wks of GA came with USG report-AFI - 1 cm with umbilical artery showing reversal of diastolic flow and severe FGR (lag of 5-6 weeks)with no complaints.

LMP : Sep 27th 2023; EDD : July 4th 2024.

POG : 31.2 weeks(acc. to LMP) at time of admission.

OBSTETRIC HISTORY : Married life of 14yrs, NCM. A1&A2-Both 7-8weeks missed abortions, D&E done, last 5 years back,G3 - Present pregnancy ,conceived after ovulation induction: Patient was admitted in our hospital as USG was s/o severe oligohydramnios with grade 3 FGR with reversal of diastolic flow in UA

O/E: Vitals- stable, Pitting PE+ up to knee, Urine protein-negative and Investigations were normal
P/A – Ut- 24 weeks ,relaxed ,breech, FHS(140bpm),clinically severe oligo&FGR,abdominal obesity+

PV FINDINGS – cervix posterior, uneffaced, external os closed, no show

USG OBSTETRICS WITH DOPPLER :

SLIUP of 31 weeks,1day.Breech presentation, AFI -1cms,EFW-643gms ,gr 3 FGR, Doppler-umbilical artery shows reversal of diastolic flow

CASE REPORT

She was then shifted for Emergency LSCS i/v/o grade 3 FGR with severe oligo with doppler changes with breech

Intra-Operative findings:

1)velamentous insertion of cord,
2)Subseptate ut (3cm length from fundus).

NEONATE: MCH-700g, , baby didn't cry immediately after birth and was intubated and shifted to NICU. Baby expired next day

CONCLUSION

Antenatal Diagnosis of VCI would have helped us to label this as high risk pregnancy in early gestation and possibly improve the obstetric outcome.

REFERENCES

Esakoff TF, Cheng YW, Snowden JM, Tran SH, Shaffer BL, Caughey AB. Velamentous cord insertion: is it associated with adverse perinatal outcomes? J Matern Fetal Neonatal 2015;28:409–12.

DISCUSSION

In VCI, the umbilical cord attaches to membranes outside of the placental mass. This means that the blood vessels from the umbilical cord have to travel much farther to get nutrients from the placenta. Without protection from warthons jelly. It has been assoc with severe obs complications(FGR,preterm, abruption, vasa previa, abn CTG, low APGAR & neonatal death).This has been diagnosed by USG with a sensitivity-67% & specificity-100% in the T2. The present case highlights the importance of the systematic assessment of the placental cord insertion site at routine obstetric ultrasound in order to make antenatal diagnosis and thus improving the fetal outcome.

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