

# TITLE-FIRST TRIMESTER FETUS WITH VERTEBRAL DEFECT

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## BACKGROUND

ULTRASOUND IS A MAGNONIMOUS IMAGING

TECHNOLOGY IN

CURRENT ERA WHICH MAKES THE DIAGNOSIS OF CONGENITAL MALFORMATIONS IN THE DEVELOPING FETUS EARLIER THAN USUAL PARTICULARLY TRANSVAGINAL ULTRASOUND IN THE HANDS WITH AN EXPERINCED IMAGING PERSON DOES WONDERS IN PICKING MALFORMATIONS OF ALL SYSTEMS .HERE WE ARE PRESENTING A CASE REPORT OF A FEMALE WITH GESTATIONAL AGE OF 13 WEEKS VISITED US FOR FIRST TRIMESTER SCAN , WHERE THE FETUS SHOWED SEVERE LOWER SEGMENTAL SPINAL DEFORMITY AND ABNORMAL VERTEBRAES

CASE REPORT

THE PATIENT WAS A 29 YEAR OLD WITH A OBSTERTRIC SCORE OF GRAVIDA -1 WITH A GESTATIONAL AGE OF 13 WEEKS WITH REGULAR MENSTURAL CYCLES AND NO SIGNIFICANT MEDICAL HISTORY .ULTRASOUND WAS PERFORMED BOTH ABDOMINAL AND TRANSVAGINAL PROBES OF FREQUENCY 3.5 HERTZ AND 5 HERTZ RESPECTIVELY.THE FINDINGS WERE THAT THE FETUS WAS SHORTER FOR GESTATIONAL AGE WITH A CROWN RUMP LENGTH OF 48 MM.ALL FETAL GROWTH PARAMETERS WERE ON LOWER CENTILES WITH AN OSSIFIED NASAL BONE AND NUCHAL TRANSLUCENCY OF 3.1 MM.THERE WAS SEVERE DEFORMITY OF SPINE WHICH WAS CURVED AND WITH IRREGULAR VERTEBRAL BODIES WHICH INCLUDED PARTIAL ABSENCE PARTICULARLY LUMBAR AND SACRAL VERTEBRAE.FETAL HEART SHOWED NORMAL INFLOWS AND OUT FLOW TRACTS .FETAL KIDNEYS ,BLADDER ,SMALL INTESTINES APPEARED NORMAL.THE PATIENT OPTED TO TERMINATE THE FETUS UNFORTUNATELY FOLLOW UP WAS LOST

## DISCUSSION

THE REAL INCIDENCE OF SPINAL DEFORMITIES DETECTED IN PRENATAL ULTRASOUND VARIES IN DIFFERENT POPULATIONS STILL MORE STUDIES ARE NEEDED TO KNOW THE TRUE INCIDENCE REPORTS.THE VARIED VERTEBRAL DEFORMITIES FROM SPINABIFIDA, KYPHOSIS, HEMIVERTEBRAE AND THE LIST IS ENDLESS.THE COMMONEST IS SPINABIFIDA (1).WHATEVER IS THE CONDITION THE INSULT OCCURS IN EARLY STAGES OF DEVELOPMENT IS AN UNIVERSALLY AGREED PHENOMENA.CAUDAL REGRESSION SYNDROME CAN ALSO BE PLACED AS DIFFERENTIAL DIAGNOSIS WITH SEVERE PARTIAL OR COMPLETE ABSENCE OF LUMBAR AND SACRAL SPINE ,THE MOST SEVERE CASES OF SIRENOMELIA WITH FUSION OF LOWER EXTREMITY WITH AN INCIDENCE OF 1 IN 350 IN DIABETIC MOTHERS (2)

DIAGNOSIS OF FETAL ANOMALIES ARE IN INCREASING TREND THOUGH ONLY A TIP OF ICEBERG IS KNOWN. WE STRONGLY EMPHASISE THE REQUIREMENT OF CONTINUOUS EDUCATION AND ACQUIRE ADEQUATE SKILLS TO PICK UP

# ANOMALIES AT THE EARLIEST WITH GROWING UP TECHNOLOGICAL ADVANCEMENT

1 PILU ETAL (2007) GOOGLE SCHOLAR

2 MILLS JL.MALFORMATIONS IN INFANTS OF  
DIABETIC MOTHERS 1984:25:385-394(PUB MED)





