

# Case Study on Various Neural Tube Defects

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Primary neural tube defect: Primary failure of closure of neural tube or disruption of already closed neural tube between 18 and 25 days of gestation – myelomeningocele, encephalocele, anencephaly.

Secondary neural tube defect: Abnormal development of lower sacral or coccygeal segments during secondary neuralation – meningocele, lipomeningocele, sacral agenesis / dydgenesis, diastomatomyelia, tethered cord.

## 1. Introduction

Depicting various neural tube defects encountered in Katuri Medical College and Hospital.

## 2. Background

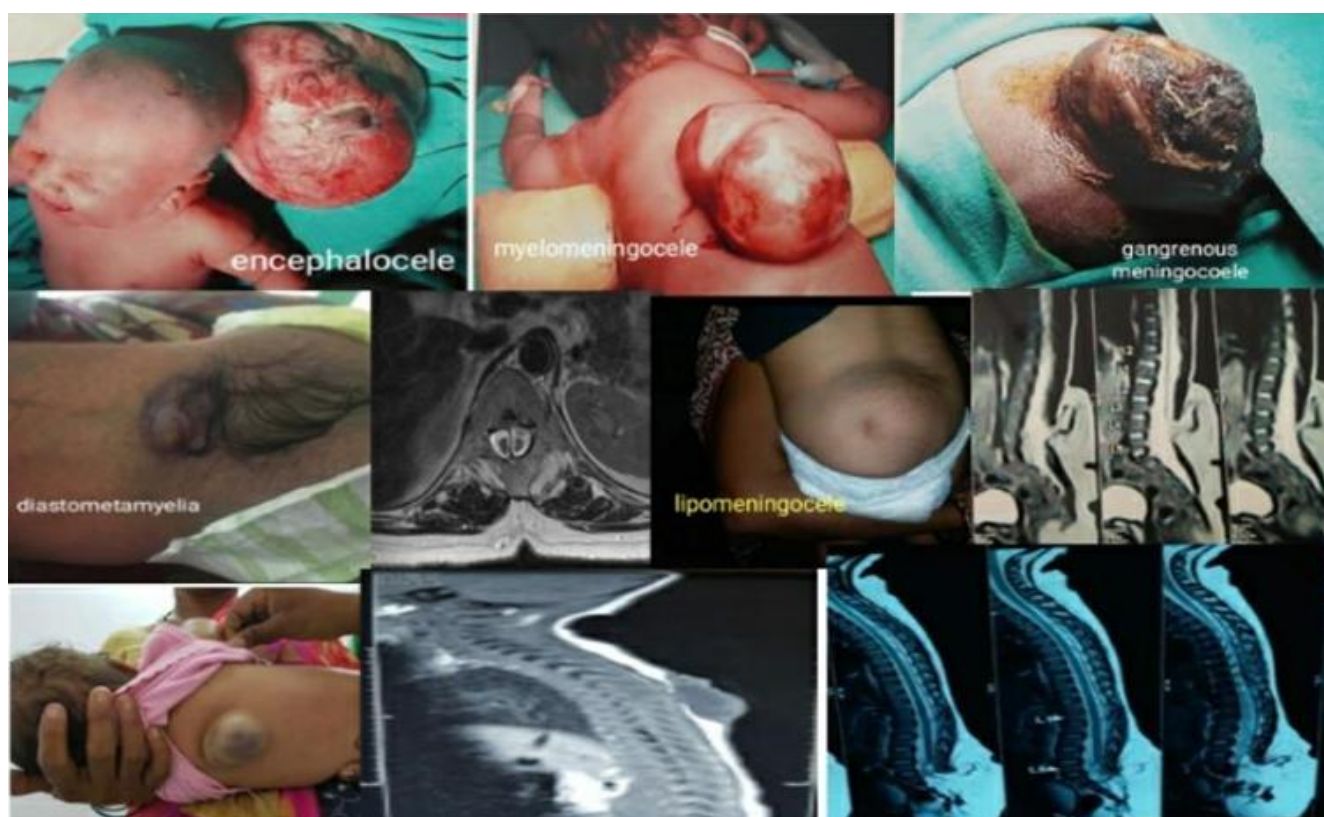
Primary neural tube defects – failure of closure or disruption of closed neural tube.

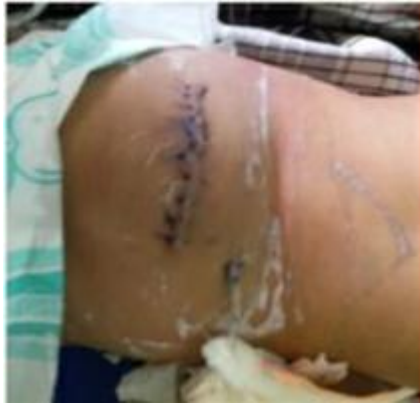
Secondary neural tube defects – Abnormal development of lower sacral or coccygeal segments in secondary neuralation.

## 3. Clinical Findings

Out of 15 babies 3 have hydrocephalus.

No motor or sensory neurological deficits.





#### 4. Interpretation

A total of 15 cases depicted in which 12 cases mother have not taken folic acid, remaining are born to diabetic mother, exposure or irradiation.

#### 5. Incidence

Mother not taken folic acid is 89 % remaining 20 %

Out of which 13 underwent surgery.

Prognosis – Good surgical outcome.