



## STUDIES ON MATERNAL BRAIN DURING ZIKA VIRUS INFECTION USING MEDICAL IMAGING TECHNIQUE IN RADIOLOGY DEPARTMENT

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### ABSTRACT

**Introduction:** The ZIKA mannerism a individual intimidation to impregnation female, along with that some cases founded in India, the complications during a pregnancy and birth defects that around 2% of particularly who are affected from ZIKA virus India, one or more primarily the time of 2<sup>nd</sup> the period of three months of pregnancy. **Aim and Objectives:** To study the infants medical resonance imagine after in maternal brain during ZIKA virus infection in pregnancy. To investigate the probable related to fetus bruise along with motherly ZIKA virus disease in India. **Methods and Materials:** This study was carried out at Sri Venkateswara College of pharmacy Chittoor, Andhra Pradesh, India. The time period of 6 months that was February 2017 to July 2017 at a study site of government hospital in Chittoor, Andhra Pradesh, including all southern part of India. **Result:** In this study outcomes the administration department of wellbeing society suggested and approved for free of cost investigation and diagnosis MRI as well as magnetic resonance imaging of all new born child along with mothers were diagnosed clinically at a time of impregnation and as well as after delivery. **Discussion:** In this study the resulting data advised to during pregnancy ultrasound and other related blood tests into the ZIKA disease in impregnations women's may distinguish ZIKA combinable identify relating to the form of behavioral modifications in the infants and hence bring up to date assessments plan related to them those who are allowing for impregnation completion. **Conclusion:** Accustomed the wide-ranging and changeable infants as well as newly child birth appearance/complexity related along with and immediately before and after birth (perinatal) death ZIKA virus disease, and the famine of info arranged, information divergence is indisputable.

**Key words:-** Pregnancy, ZIKA, Magnetic Resonance Imaging.

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### INTRODUCTION

ZIKA virus is a mosquito-born flavi virus a disruptions of ZIKA virus (ZIKV) illness crop up in

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globally, approximately 5 million inhabitants, in July 2017 to November 2017. Through the explosion of hospitals investigate ZIKA disease arrived approximately 2.5 million, so statistics are apparently undervalue, in behalf of abounding as well as 75% data illness of ZIKA diseases is symptomless[1]. The ZIKA mannerism a individual intimidation to impregnation female, along

with that some cases founded in India, the complications during a pregnancy and birth defects that around 2% of particularly who are affected from ZIKA virus India, one or more primarily the time of 2<sup>nd</sup> the period of three months of pregnancy[2]. The intellect design developed scale of afflicted fetus additionally concretion, abridged rotating motions scales, and birth defect along combinable appearance may distinguish the time of fetal ultrasound or through natural identifications as a time of childbirth[3]. A limited acknowledged on some different probably ZIKA virus correlate infant mind aberration [4]. Throughout the outburst in India, 21 patients of birth defect were identified [5].

### Aim

To study the infants medical resonance imagine after in maternal brain during ZIKA virus infection in pregnancy.

### Objective

To investigate the probable related to fetus bruise along with motherly ZIKA virus disease in India.

To study the segment evaluation of ZIKA disease, sign and symptoms in labor patients at the obstetrics and gynecology hospital in India.

### METHODS AND MATERIALS

This study was carried out at Sri Venkateswara College of pharmacy Chittoor, Andhra Pradesh, India. The time period of 6 months that was February 2017 to July 2017 at a study site of government hospital in Chittoor, Andhra Pradesh, including all southern part of India [6]. And the sample size was 100 cases, the study carried out as a retrospective study with the approval ethical committee members at the government hospital Chittoor, Andhra Pradesh, India [7]. In additions 100 cases was collected from the same hospital and some other related information were collected from other obstetrics and gynecology hospitals located in Tirupati as well as Chennai [8].

### RESULT

In this study outcomes the administration department of wellbeing society suggested and approved for free of cost investigation and diagnosis MRI as well as magnetic resonance imaging of all new born child along with mothers were diagnosed clinically at a time of impregnation and as well as after delivery [9]. The motherly disease have been decisive reversal assessment carried out as a pregnant women blood sample and along with urine test carried out for the testing and as well as diagnosing of antibodies in the blood [10].

**Table 1. Examine of ZIKA virus with Neonatal ultrasounds abnormalities findings**

+Ve	-Ve
Suspected ZIKA virus related fetal abnormalities, individualized counseling and specialized care	Fetal abnormalities due to other conditions, further investigations
Maternal ZIKA virus infection with no fatal involvement at the time of examinations, ultrasound follow up	Unaffected by ZIKA virus continue routine antenatal care

**Table 2. Essence for 100 baby child those endure magnetic resonance imaging.**

Idiosyncratic	value
Female number [%]	48 (45)
Era as magnetic resonance imaging- existence	51 (34-75)
norm (interquartile)	51 (28-59)
diversity	25-100
fetus inside female era as commencement t of motherly disease	
norm (interquartile) weekly	22 (10-30)
Array- number in percentage	
Greater than 5-9 weekly	29 (26)
Greater than 9-25 weekly	19 (18)
Greater than 25 weekly	45 (39)
Fetus inside female era child birth-weekly	
Norm (interquartile)	40 (28-38)
Array	32-52

Motherly disease have been decisive enzyme which catalyses the formation of RNA from a DNA template during transcription polymerase series of events examine achieved or carried out with the tests of

motherly blood and urine, or both emergency use assessment and listing procedure (EUAL) along with Altona which is used for ZIKA diagnostics for the newborn that fact was to maternal and those who have

ordinary outcomes to fatal ultrasounds and related to other investigations as a during of childbirth, such as 95 newly born baby was chosen and undergone for intellect magnetic resonance imaging [11]. And along with maternal and as well as new born baby, ZIKA virus diseases have done diagnosis with the help of reverse transcriptase and polymerase chain reactions 74.12% and blood serum tests as a 12.04% (serological investigation) [12].

## DISCUSSION

In this study the resulting data advised to during pregnancy ultrasound and other related blood tests into the ZIKA disease in impregnations women's may distinguish ZIKA combinable identify relating to the form of behavioral modifications in the infants and hence bring up to date assessments plan related to them those who are allowing for impregnation completion [13]. ZIKA virus diseased maternity, and her did not found any other cases were serious mother mortality and morbidity resulted [14]. Complexity outcome into combined motherly ZIKA virus disease added a complication reported in association with motherly ZIKV infection included a wide scale of infants and fetus meningitis and visual deformities, infants augmentations constraint, range of fetal and newborn neurological and ocular

abnormalities; fetal growth restriction, a baby born dead after 24 completed weeks of pregnancy (stillbirth), and immediately before and after birth (perinatal) death [15]. Birth defects were the prior the nervous system disease or complications related six cases were resulted [16].

## CONCLUSION

Accustomed the wide-ranging and changeable infants as well as newly child birth appearance/complexity related along with and immediately before and after birth (perinatal) death ZIKA virus disease, and the famine of info arranged, information divergence is indisputable [17]. Additional study and wide-ranging resulting leads to avail the qualitative knowledge about ZIKA virus disease in impregnation and assists motherly as well as infant's complexity [18]. Here by in this information's possibly well conceptions efficient and standard treatment approach, and qualitative based strategy and commendation intended for the control of motherly ZIKA virus disease [19, 20]. Observance to the presently better performance strategies immediately before and after birth (perinatal) to focusing and heading up of wellbeing contributor are positively optimistic, into the circumstances of motherly ZIKA virus disease [21, 22].

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