

## **FACULTY OF ALLIED HEALTH SCIENCES** UNIVERSITY OF RUHUNA, GALLE

DEPARTMENT OF NURSING 4th END SEMESTER EXAMINATION



Date: 04th June 2019 Time: 9.30 a.m.-11.30 a.m.

Duration: 2 hours



Part A

Index Number: .....

1. The following abstract was appeared in the Journal of Clinical Microbiology and Infections in 2019. Read the abstract and answer the questions given below.

Title: Pregnancy outcomes after maternal Zika virus infection in a non-endemic region

OBJECTIVES: to describe pregnancy outcomes after Zika virus (ZIKV) infection in a nonendemic region.

METHODS: according to the Spanish protocol issued after the ZIKV outbreak in Brazil in 2015, all pregnant women who had travelled to high-burden countries were screened for ZIKV. Serological and molecular tests were used to identify ZIKV-infected pregnant women. They were classified as confirmed ZIKV infection when reverse-transcriptase polymerase chain reaction (RT-PCR) tested positive, or probable ZIKV infection when ZIKV-immunoglobulin M and/or immunoglobulin G and ZIKV plaque reduction neutralization tests were positive. Women found positive by molecular or serological tests were prospectively followed-up until delivery on a monthly basis, with ultrasound scans and neurosonograms; magnetic resonance and amniotic fluid testing were performed after signed informed consent. Samples of placenta, and fetal and neonatal tissues were obtained

RESULTS: seventy-two pregnant women tested positive for ZIKV infection; ten were confirmed by RT-PCR, and 62 were probable cases based on serological tests. The prevalence of adverse perinatal outcomes was 33.3% (3/9, 95%CI, 12.1-64.6%): two cases of congenital ZIKV syndrome (CZS) and one miscarriage, all born to women infected in the first trimester of gestation. All ZIKV-confirmed women had persistent viremias beyond two weeks (median 61.50 days (IQR 35.50-80.75)). Amniotic fluid testing was only positive in the two fetuses with anomalies

CONCLUSION: the prevalence of perinatal adverse outcomes for women with ZIKV-confirmed infection was 33.3%. Amniocentesis for ZIKV RT-PCR is recommended when fetal abnormalities are found. Intensive prenatal and postnatal follow-up of ZIKV infected pregnancies is advised in confirmed cases.

a. What is the research design used for this study? (25 marks)

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	(25 marks	) A
b.	What is IQR?	tomade grenorité est
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## FACULTY OF ALLIED HEALTH SCIENCES UNIVERSITY OF RUHUNA, GALLE DEPARTMENT OF NURSING

DEPARTMENT OF NURSING
4th END SEMESTER EXAMINATION

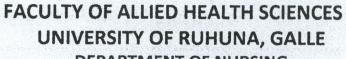


Statistics & Epidemiology in Nursing (NSE 2226)-SEQ

Date: 04<sup>th</sup> June 2019 Time: 9.30 a.m.-11.30 a.m.

	Index Number:	
Part E		
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1.	Explain briefly the following terms.	anthe Marine
	a. Epidemic	(25 marks)
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)	b. Double blind procedures	(25 marks)
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c. Secondary prevention (25 marks)	
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d. Case study (25 marks)	
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DEPARTMENT OF NURSING 4<sup>th</sup> END SEMESTER EXAMINATION



Statistics & Epidemiology in Nursing (NSE 2226)-SEQ

Index Number:	ation: 2 hours
Part C	
<ol> <li>A study was conducted to see whether there is an associa pain. Twenty percent of male and 40% of female particip be having back pain. Two hundred males and 200 female</li> </ol>	ants investigated were found t
a. What is the study design used in this research?	(10 marks)
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b. State your null and alternative hypotheses	(20 marks)
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	What is (are) the test(s) that you can use to test your null hypothesis	S
c.	What is (are) the test(s) that you can use to test, (10 n	narks)
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	d. Test your hypothesis at $\alpha = .01$ level (60)	marks)
	(Chi square tables and Z tables should be provided.)	
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Statistics & Epidemiology in Nursing (NSE 2226)-SEQ

Date: 04 <sup>th</sup> June 2019 Time: 9.30 a.m11.30 a.m. Duration: 2 hours
Index Number:
Part D
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