

UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES–AUG 2013
COMMUNITY AND FAMILY MEDICINE

Date: 27.08.2013.

Time: 3 hours

ANSWER ALL THE SIX QUESTIONS

Answer each Question in separate answer book

1. A study was conducted to determine the **Prevalence** of anaemia during pregnancy in Anuradhapura district and to evaluate present screening methods available for screening of anaemia. A total of 990 pregnant women participated in the study. In the first, second and third trimesters, prevalence of anaemia was 7.6%, 19.7% and 19.3% respectively. Gestational age adjusted anaemia prevalence among pregnant women in this study population was 14.15 (95% **Confidence Interval** (CI) 12.0-16.4%). **Mean** and **Median** haemoglobin concentrations of the study sample was 11.8g/dl (SD 1.02g/dl and **IQR** 11.2-12.5g/dl). **Sensitivity** and **Specificity** of the haemoglobin colour scale method was 50% (95% CI 20.0-71.0%) and 76.3% (95% CI 66.9-83.7%) respectively. Sensitivity and specificity of conjunctival method in detecting anaemia during pregnancy was 18.8% (95% CI 11.9-28.4) and 69.3% (95% CI 58.2-78.6%)

Source: Chathurani U et al. Anaemia in pregnancy in the District of Anuradhapura, Sri Lanka – need for updating prevalence data and screening strategies: Ceylon Medical Journal. 2012 Sep; 57(3):101-6

- 1.1. What is the study design? (10 Marks)
- 1.2. Define the terms given in Bold. (35 Marks)
- 1.3. Based on the findings of this study, give 2 recommendations which will be useful to field health staff (20 Marks)
- 1.4. Describe the importance of screening for anaemia in pregnant mothers (35 Marks)
- 2.
- 2.1. Explain “Surveillance Case Definition” (30 Marks)
- 2.2. Discuss the mechanism of Morbidity and mortality data collection in Sri Lanka (40 Marks)
- 2.3. Mr Kandiah Selvakumaran aged 59 years was admitted to Jaffna Teaching Hospital at 7 pm on 15/07/2013, with a history of severe chest pain and sweating. ECG showed Q waves with ST elevation. He was treated as a patient suffering from Acute Myocardial Infarction. He had been previously treated for Diabetes Mellitus and Hypertension. In spite of treatment he passed away at 8 pm on 18/07/2013
Write a Certificate of cause of Death (30 Marks)

3. During one of your routine home visits you met an 82 years-old retired teacher Mrs. Rajarathinam. She is a widow and is living alone
- 3.1. List Five Health problems Mrs. Rajarathinam may have (15 Marks)
- 3.2. Discuss how you could assess Mrs. Rajarathinam's health status during your home visit (35 Marks)
- 3.3. Briefly describe how you could provide a "coordination of Care" to her. (35 Marks)
- 3.4. List five indications for a home visit (15 Marks)
4. A research study is planned, to assess the association between cigarette smoking and deaths due to coronary heart disease.
- 4.1. Write the hypothesis for this study (20 Marks)
- 4.2. Write down the most suitable study design to confirm the hypothesis and give reasons (40 Marks)
- 4.3. Briefly describe the plan for data analysis in order to confirm the hypothesis (40 Marks)
- 5.
- 5.1. Describe the types of Hospital waste and discuss the methods of disposal of hospital waste (70 Marks)
- 5.2. Briefly describe how hospital waste is disposed at Jaffna Teaching Hospital, and suggest improvements needed (30 Marks)
6. Write short Notes on
- 6.1 Smoking cessation programmes (25 Marks)
- 6.2. Natural disasters and their prevention (25 Marks)
- 6.3. Ethics in medical Practice (25 Marks)
- 6.4. Medical Audit (25 Marks)