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| ORIGINAL TITLE | Validation of the rose questionnaire and the resting electrocardiogram against the exercise electrocardiogram for screening of coronary heart diseases |
| DEGREE | M.Phil. |
| YEAR | 2002 |
| INSTITUTE | University of Peradeniya |
| LOCATION | UP(MED) |
| MAIN HEADING | CORONARY DISEASE |
| ABSTRACT | Introduction : The principal focus of this study is on the 'Rose Questionnaire' _ a preliminary screening tool for coronary heart disease and a possible epidemiological tool for monitoring coronary heart disease in the community. It has been widely employed with increasing methodological refinement since its initial use as a screening tool in the 1960s. Objectives ; The objectives consisted of the testing of validity of the Rose Questionnaire results against the Exercise ECG in two sample groups of patients and community volunteers, comparing the Resting ECG with the Results of the Rose questionnaire in the same samples and screening a small community sample using the Rose questionnaire. Methodology :The Sinhala translation of the modified Rose questionnaire was administered in the form of a series of individual interviews to 138 patients with chest pain and 13 7 community volunteers. Following a clinical examination, the blood pressure was measured, and a 12-lead Resting ECG was obtained. Exercise ECG was done on the MAX-I computerized exercise testing system and the Series 2000 treadmill using the modified Bruce protocol with routine monitoring. The resting ECG was analyses using the Minnesota code and by observation for the presence of slurring and notching. Rose questionnaire was also used on a sample of 686 asymptomatic persons from a community. Results : The sensitivity, specificity, positive predictive and negative predictive values were 80percent, 31.1 percent, 68.6percent and 45.5percent, fespectively, for the patient group and 39percent, 89percent, 69percent and 7.1.1 percent, respectively, for the community group when the Rose questionnaire results were validated against the Exercise ECG. A higher positive predictive value was seen in females compared to males in the community sample ($p = 0.0144$). In the case of the community sample, the presence of one major and/or minor criterion of the Minnesota code in the resting ECG had a marginally lower positive predictive value of 55.3percent compared to |

The Rose Questionnaire has a low sensitivity when validated against the Exercise ECG for conununity screening of coronary heart disease. However, the study results suggest that, as an instrument of clinical screening, the Rose questionnaire is at least marginally superior to the resting ECG alone. Rose questionnaire and Resting ECG taken together could serve as a cost effective method for screening the conunuity for coronary heart disease.