



The Proportion of 6th year Medical Students of Khon Kaen University about knowledge of Electrocardiogram Interpretation

Ploynapa Maliwan¹, Ticharat chaibanjongwat¹, Bordin Duangrudeesawat¹, Pawitita Kalerum¹, Patjaya Noppawing¹, Auttapol Srivichean¹, Pichamol Wongwien¹, Thanachote Thanomwong¹, Chotika Jessadawisut¹, Sirintip Boonjaraspinyo², Varisara Luvira²

¹5th year medical students, Faculty of Medicine, Khon Kaen University

²Department of Community Medicine, Faculty of Medicine, Khon Kaen University

Background and Objective : The ability to accurately interpret electrocardiogram (ECG) abnormalities is a core competency to diagnose and proper management. Therefore, the study about the proportion of 6th year Medical students in knowledge of electrocardiogram interpretation might be benefit for improving adequate performance in their future career and evaluate the training course for medical students whether it is adequate or not. This study aimed to determine 1) The proportion of 6th year medical students of Khon Kaen University about knowledge of electrocardiogram interpretation 2) level of confidence to interpret electrocardiogram and 3) Source of further knowledge about electrocardiogram interpretation.

Methods: This was a descriptive study at Srinagarind hospital, Faculty of Medicine, Khon Kaen University. Study population: were the 6th year medical students. Tools: Self-administered questionnaire. Analysis: SPSS v.19 and Epi Info v. 3.5.4 calculating proportion, percentage, mean, median, interquartile range and 95% confidence interval

Results: The response rate was 80.1%. The proportion of students in knowledge of electrocardiogram was 39.3% (95% CI: 30.1%, 49.2%) pass. The proportion of corrected basic knowledge of electrocardiogram was 48.6% (95%CI: 38.9%, 58.1%) and the proportion of corrected diagnosis was 66.4%. The confidence in electrocardiogram interpretation among 6th year medical students was 3.1, revealed that they had moderate confidence. The resource of knowledge in electrocardiogram that do most often was attending electrocardiogram class (86%).The second and third resource knowledge were internal medicine residents (82.2%) and internal medicine staffs(80.4%) respectively.

Conclusion: Two-fifths of 6th year medical students were able to correctly interpret electrocardiogram. The level of confidence is in medium level. And the learning resource was from the classroom.

Keywords: knowledge, electrocardiogram interpretation, 6th year Medical Students

