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Assess the knowledge regarding electro cardiogram among final year b.sc nursing students in Narayana College of nursing, Nellore

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Abstract
The study aims are to assess the level of knowledge regarding ECG among final year B.Sc Nursing Students and to identify the relationship between the knowledge level and socio demographic variables of final year nursing students. The quantitative research approach and cross sectional descriptive design was adopted for the study. The study was conducted in Narayana college of Nursing. 30 nursing students were selected by using Non Probability Convenience Sampling Technique. Semi structured Questionnaire method was used for collecting the information from samples. Data analysis done by using descriptive and inferential statistics. The results revealed that 15 (50%) nursing students have inadequate knowledge, 6(20%) nursing students have moderately adequate knowledge and only 9 (30%) nursing students have adequate knowledge regarding ECG. The study concluded that majority of nursing students has inadequate knowledge and source of information has shown significant association with level of knowledge. Remaining socio demographic variables has shown non-significant association with the level of knowledge.

Keywords: Knowledge, electro cardio gram, nursing students

Introduction
Cardio vascular disease (CVD) is the leading cause of death in many regions worldwide, accounting for nearly one third of global deaths. Every patient need and care facility is different. So providing the right nursing care for critically ill patients is not simply a matter of applying standard nurse to patient ration, but also interpret the skills of nursing for tackle the life threatening problems.

Nurses being a member of health team should be able to interpret ECG finding up to her extent of practice needed in clinical settings. Interpretation of ECG is the conclusion of identifying normal and abnormal findings among cardio vascular diseases with the help of measurements, rhythm analysis, conduction analysis, wave form description. So that student nurse can able to posses the knowledge in comparing the ECG strip with the previous one.

Health care related activity depends on elaborate health assessment, analysis of health parameters and identifying specific health problem and needs. One of such important health parameter is ECG. Therefore it is essential the student nurses are able to analyses ECG readings accurately, which will intakes help them to fulfill the needs of practicing the nurse in the future. Hence the researcher felt need to conduct study for assessing knowledge level of Nursing students.

Problem Statement
A study to assess the knowledge regarding electro cardiogram among final year Bsc Nursing students in Narayana College of Nursing, Nellore.

Objectives
* To assess the level of knowledge regarding ECG among final year B.Sc Nursing Students.
* To find out the association between the level of knowledge regarding ECG among final year B.Sc nursing students with the selected socio demographic variables.

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Material and Methods

Cross sectional descriptive design was adopted for this study. 30 Nursing students were selected by using non probability convenience sampling technique. The study was conducted in in Narayana college of Nursing at Nellore after getting formal permission from relevant authorities. The purpose of the study explained to participants in their understandable language and obtained the approval from samples. The standard questionnaire was administered to students for identifying the knowledge regarding ECG.

Inclusion Criteria

Nursing students who are

Studying in Narayana College of nursing.

Exclusion Criteria

Nurses and Nursing students who are
On leave during the time of data collection
Not willing to participate in the study

Method of Data Collection

The tool for data collection consists of 2 parts:
Part 1: socio-demographic data.
Part 2: Standard questionnaire for identifying the knowledge regarding ECG

Table 1: Plan for Data Analysis

Sl. No	Data analysis	Method	Remarks
1	Descriptive statistics	Frequency And Percentage	To describe the distribution of socio- demographic variables -assessing the level of knowledge among students
2	Inferential statistics	Chi square	To find out the association between level of knowledge and Sociodemographic variables.

Results and Discussion

The data was organized, tabulated, analyzed and interpreted by using descriptive and inferential statistics based on the Objectives of the study. The findings were presented in the following sections.
The analysis of the data was mainly classified as

Section-I Frequency and percentage distribution of socio demographic variables of students

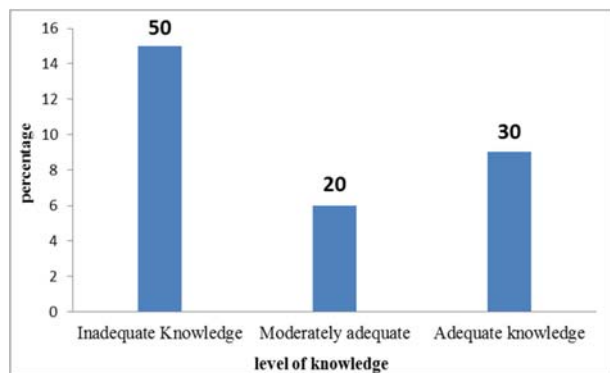**Section II**: Mean and standard deviation of level of knowledge.

Section III: Association between the level of knowledge and socio demographic variables of students.

Section-I

Frequency and percentage distribution of socio demographic variables of caregivers

Majority of students were to age, 27(90%) student nurses are between the age group of 21-22 years, and in context to source of information 21 (70%) student nurses are got information from curriculum.

Knowledge regarding ECG among final year BSc (N) students

Fig 1: Per distribution of level o

Mean and standard deviation of level of Knowledge among nursing students

The mean value of level of knowledge is 27.9 and standard deviation is 8.47.

Section–IV

Association between Level of knowledge and Socio Demographic Variables of nursing students

In the association of demographic variables with level of knowledge among nursing students age has obtained calculated chi square value of 9.7529 with table value of 7.83 shown significant association at $p<0.05$.

Conclusion: The study findings reveal that majority of students has inadequate knowledge regarding ECG. Hence there is a need to provide CNE programme to enhance the knowledge for better care delivery in health care system.

Recommendations
Nursing practice

- The study helps the nursing students to determine the level of knowledge regarding ECG. Present study motivates to improve their level of knowledge.

Nursing education

- Student nurses have to update their knowledge regarding ECG.
- Nursing curriculum can provide opportunities for the student for knowing about the ECG the faculty must motivated the students regarding ECG through seminars, conference, and group discussion.

Nursing administration

- Nurse administrator should establish standard protocol and it can be implemented effectively.
- Extend the role in strengthening and designing the nursing procedure related to ECG monitoring.

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