



A STUDY TO ASSESS KNOWLEDGE REGARDING TRIAGE AMONG THE NURSING STUDENTS AT VMCON, PUDUCHERRY.

Parkavy P

Student, M.Sc (N) student, Department of Community Health Nursing, Vinayaka Mission's College of Nursing, Puducherry-607403, Affiliated to Vinayaka Mission's Research Foundation (Deemed to be University), Salem, Tamilnadu, India.

Dr. Sangeetha. K*

Research Guide, M.Sc (N), PhD, Professor cum Head, Department of Community Health Nursing, Vinayaka Mission's College of Nursing, Puducherry-607403, Affiliated to Vinayaka Mission's Research Foundation (Deemed to be University), Salem, Tamilnadu, India. *Corresponding Author

ABSTRACT

Triage is the process of classifying and prioritising sick, injured and disaster survivors based on their need for immediate medical attention. The method additionally factors in the availability of resources. **Aim:** To Assess Knowledge Regarding Triage among the Nursing Students. **Research Methodology:** A descriptive design was adopted in this study. A convenient sampling was used to select 96 samples. A self-structured knowledge questionnaire was used to collect data. **Results:** The study result shows that Level of knowledge among the nursing students, 93.75% had adequate knowledge and 6.25% had moderate adequate knowledge regarding triage among the nursing students. The demographic variables had not shown statistically significant association with level of knowledge regarding triage among nursing students. **Conclusion:** The findings of this study concluded that nursing students had adequate knowledge of triage in this study.

KEYWORDS : Triage, emergency, nursing students, knowledge.

INTRODUCTION

Triage is derived from the French word "trier" which refers to sorting and organisation processes. Triage is the process of identifying and prioritising sick, injured, and disaster survivors depending on their need for rapid treatment.⁽¹⁾

The emergency department is a critical component of the healthcare delivery system. Frontline healthcare providers serve patients who arrive in the ED with significant, life threatening illnesses.⁽²⁾

Inadequate triage knowledge creates delays in emergency treatment delivery, potentially increasing the risk of avoidable deaths and impairments. Triage nurses are critical parts of the hospital system because they can properly prioritise patients, decreasing the cost pressure and congestion difficulties in emergency rooms during disaster scenarios.⁽³⁾

The majority of this research has revealed that nurses have insufficient knowledge because they are only partially participating in triage. Given the constant growth in patients admitted to the emergency department and the scarcity of medical facilities, it is critical that nursing students learn about triage.⁽⁴⁾

Nursing students' triage knowledge as well as other important aspects. Additionally, there aren't many studies or informational sources that concentrate on nurses' triage expertise. The researcher has also observed and experienced nursing students' ignorance.⁽²⁾

MATERIALS AND METHODS

A quantitative research approach and descriptive study was adopted in this study. This study was conducted in Vinayaga Missions College of Nursing Puducherry. Convenience sampling technique was adopted for the study. The sample size of the present study was 96 students in VMCON. The Inclusion criteria for the study were the participant's nursing students, willing to participate in this study. Exclusion Criteria for the study who are not available during data collection period.

Description Of The Tool:

Section A – It consists of demographic variables of nursing students such as age, gender, attended any training program, Source of knowledge.

Section B– It consists of knowledge questionnaire. This scale has 20 questions with 2 options yes & no.

Data Collection Procedure

IRC clearance will be obtained. Formal written permission will be obtained from the Principal, VMCON, Puducherry. A total of 96 samples that fulfill the inclusion criteria will be selected by using a

convenience sampling technique. Written informed consent will be obtained from each sample. Knowledge regarding triage will be assessed using a knowledge questionnaire. The collected data were coded and analysis of the data using descriptive and inferential statistics.

Plan For Data Analysis

1. Frequency and percentage distribution of demographic variable
2. Association Chi-Square based analysis of knowledge of triage with their demographic variables.

RESULT

Table 1: Frequency and percentage distribution of demographic variables of nursing students. N=96

Demographic Variables	Frequency	Percentage
Age of student		
17 – 19 years	96	100.0
20 – 22 years	-	-
Gender		
Male	27	27.0
Female	69	69.0
Attended any training		
Yes	6	6.0
No	90	90.0
Source of knowledge		
Book	57	59.4
Internet	32	33.3
Lecture	7	7.3

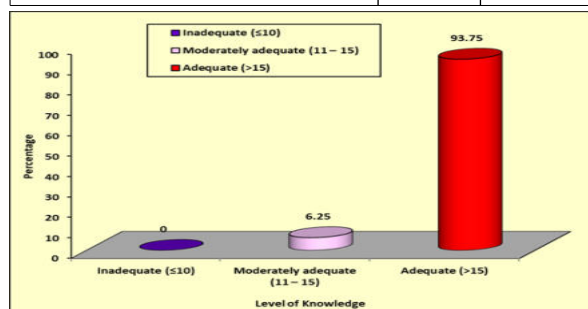


Fig 2: Frequency and percentage distribution of level of knowledge regarding triage among the nursing students.

Table 2: Assessment of knowledge score regarding triage among the nursing students. N=96

Knowledge	Score
Minimum score	14.0
Maximum score	20.0
Median	18.0
Mean	17.48
S.D	1.41

Association

Demographic variables such as gender ($p=0.769$), Attended any training ($p=0.514$), and Source of knowledge ($p=0.770$). Demographic variables had not shown statistically significant association with level of knowledge regarding triage among nursing students.

DISCUSSION

In the majority of the age of students, 100% were aged between 17 – 19 years, 69% were female, 90% were attended any training, 59% were source of knowledge. Level of knowledge among the nursing students, 93.75% had adequate knowledge and 6.25% had moderate adequate knowledge regarding triage among the nursing students. the mean score of knowledge was 17.48 ± 1.41 . The median score was 18.0 with minimum score of 14.0 and maximum score of 20.0. **Honnagouda Patil,⁽⁶⁾** In this study 62% were of the age group 21-22 years, Among source of information, 15 % were got information from books, 12% were got information from hospitals, 4% were got information from teacher, 2% were got information from any other of means. The knowledge score of triage among students, the mean is 13, median is 25.5, mode is 7.5, standard deviation is 7.35 and range is 13. The average level of knowledge is 98% and only 2% has good knowledge.⁽¹⁷⁾

Association of level of knowledge about triage regarding triage among the nursing students with selected demographic variables had not shown statistically significant association with level of knowledge regarding triage among nursing students. **Yadav P., Thakur D.**⁽²⁾ Maximum of student was having average knowledge regarding triage. There was no significant association of knowledge scores of nursing students with selected variables.

REFERENCES

- Gupta, G., Isaacs, Z., & Torrey, T. (2023). What Medical Triage Is in a Hospital Determining Who Needs Emergency Attention First Triage Definition: Medical Meaning and How It Works (verywellhealth.com).
- Yancey, C. C., & O'Rourke, M. C. (2022). Emergency Department Triage. In StatPearls. StatPearls Publishing. <https://www.ncbi.nlm.nih.gov/books/NBK557583/>
- AlShatarat, M., Rayan, A., Eshah, N. F., Baqea, M. H., Jaber, M. J., & AlBashtawy, M. (2022). Triage Knowledge and Practice and Associated Factors Among Emergency Department Nurses. SAGE open nursing, 8, 23779608221130588. <https://doi.org/10.1177/23779608221130588>.
- Ali, S. M., Taverner, B., Ghani, M., Kussor, Z., & Naz, S. (2014). Knowledge of Triage Among Nurses In Emergency Units. Biomedica Vol. 29. 240-246. [who.int/imemrf/Biomedica/Biomedica](http://www.int/imemrf/Biomedica/Biomedica)
- Jeba, I., Devi, A. (2016). Knowledge of staff nurses regarding triage system. International Journal of Development Research. 6(12):10625–10628.
- Stoppler M. C. (2023). Medical Triage: Code Tags and Triage Terminology. Medical Triage (Color Tags, START) Terminology by MedicineNet.com.
- Yadav, P., Thakur, T. (2022). A Study to Assess Knowledge Regarding Triage among the Nursing Students at Selected Colleges of Ambala, Haryana. International Journal of Nursing Education 14: 56–60. doi:10.37506/ijone.v14i4.18683.
- Malak, M. Z., Mohammad AL-Faqeer, N., & Bashir Yehia, D. (2022). Knowledge, Skills, and Practices of Triage among Emergency Nurses in Jordan. International emergency nursing, 65, 101219. DOI:10.1016/j.ienj.2022.101219
- Tam, H. L., Chung, S. F., & Lou, C. K. (2018). A review of triage accuracy and future direction. BMC emergency medicine, 18(1), 58. <https://doi.org/10.1186/s12873-018-0215-0>.
- Morley, C., Unwin, M., Peterson, G. M., Stankovich, J., & Kinsman, L. (2018). Emergency department crowding: A systematic review of causes, consequences and solutions. PloS one, 13(8), e0203316. <https://doi.org/10.1371/journal.pone.0203316>.
- Shahi, A., & Bist, Lekha. (2022). A Descriptive Study to Assess the Knowledge and Attitude Regarding Higher Education among Nursing Students in Selected Nursing Colleges of Noida. International Journal of Nursing Education. DOI:10.37506/ijone.v13i4.16579
- Eaid Elgazzar, S. (2021). Knowledge of triage and its correlated factors among Emergency Department Nurses. Egyptian Journal of Health Care. DOI:10.21608/ejhc.2021.270296
- Aslinur, D., Doruk, N., Birbicer, H., Akin, S., Keles, G., & Senayli, Y. (2021). Evaluation of healthcare professionals' knowledge on Code Blue: A multi-centre survey study. Journal Resuscitatio Balcanica. DOI:10.5937/jrb7-31187.
- Hu, F., Yang, J., Yang, B. X., Zhang, F. J., Yu, S. H., Liu, Q., Wang, A. L., Luo, D., Zhu, X. P., & Chen, J. (2021). The impact of simulation-based triage education on nursing students' self-reported clinical reasoning ability: A quasi-experimental study. Nurse education in practice, 50, 102949. <https://doi.org/10.1016/j.nepr.2020.102949>.
- Duko, B., Geja, E., Oltaye, Z., Belayneh, F., Kedir, A., & Gebire, M. (2019). Triage knowledge and skills among nurses in emergency units of Specialized Hospital in Hawassa, Ethiopia: cross sectional study. BMC research notes, 12(1), 21. <https://doi.org/10.1186/s13104-019-4062-1>
- Christ, M., Grossmann, F., Winter, D., Bingisser, R., & Platz, E. (2010). Modern triage in the emergency department. Deutsches Arzteblatt international, 107(50), 892–898. <https://doi.org/10.3238/arztebl.2010.0892>
- Patil, H. (2015). Assessment of Knowledge Regarding Emergency Severity Index (ESI) Triage among the 4th year B.Sc. Nursing Students Studying at KLEU'S Institute of Nursing Sciences, Belgaum, Karnataka. International Journal of Nursing Education and Research, 3, 94-100.

- Considine, J., LeVasseur, S. A., & Villanueva, E. (2004). The Australasian Triage Scale: examining emergency department nurses' performance using computer and paper scenarios. Annals of emergency medicine, 44(5), 516–523. <https://doi.org/10.1016/j.annemergmed.2004.04.007>