

**STUDENTS OPINION TOWARDS TEACHING LEARNING METHODS AND
AUDIOVISUAL AIDS USED IN NURSING EDUCATION**

**Nerin Thomas¹, Nisha Varughese¹, Pooja Lakshmanan¹, Preethi Prasad¹, Priya Philip¹, Stephy Mathew¹ and
Dr. Priya Reshma Aranha***

*Assistant Professor, Department of Child Health Nursing, Yenepoya Nursing College, Yenepoya University
Managaluru, Karnataka, India. 575018.

¹Fourth Year BSc Nursing Students, Yenepoya Nursing College, Yenepoya University, Mangaluru, Karnataka.

***Corresponding Author: Dr. Priya Reshma Aranha**

Assistant Professor, Department of Child Health Nursing, Yenepoya Nursing College, Yenepoya University Managaluru, Karnataka, India. 575018.

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ABSTRACT

Background: A lot of importance is given for teaching learning activities and use of various audiovisual aids in medical education. How students perceive these teaching learning activities and AV aids, affect their learning. **Objectives:** To understand the preference of nursing students regarding current teaching learning methods and audiovisual aids used in nursing. **Methods:** A quantitative approach with descriptive survey design was adopted. The study was conducted in selected nursing colleges. The variables under study were - students' preference of teaching learning methods and audiovisual aids. Study sample consisted of 100 students who were selected using non probability convenience sampling technique. The tool used for the study was Demographic Proforma, and Likert scale to assess the preference of students regarding teaching methods and audiovisual aids used. Then the data was collected and analyzed using descriptive and inferential statistics. **Result:** The study result showed that majority (37%) of the study sample belong to the age group 17-24 years each. Majority (91%) were females. Majority (47%) were studying B. Sc. nursing. Majority (37%) were in the second year of course. Majority (78%) studied from state board of education. Majority (63%) studied in English medium schools. Half of the study samples studied in government school where as the other half went to the private school. Majority (93%) of the study samples have been exposed to audiovisual aids in school. The majority of the study sample strongly preferred field trip (52%), nursing rounds (55%), demonstration (80%), bedside teaching (58%), computers (61%), models and multimedia (49%), specimens (48%), LCD projector (66%), slide projector (53%), and blackboard also remained the most preferred (64%) AV aid. Among the sample majority (51%) preferred use of mix of AV aids. **Conclusion:** The study concluded that the nursing students have their own preferences for teaching learning methods and AV aids. Therefore the nursing faculty should use the methods wisely to make the teaching learning process interesting, interacting and effective.

KEYWORDS: Teaching learning methods, audio visual aids, nursing students.

INTRODUCTION

Technological advancements has brought revolutionary changes in every field of life and teaching learning is no exception.^[1] Teaching learning process in health care profession has also undergone a dramatic change.^[2] Technological development has brought in use of many new applications in the teaching field.^[3] Various teaching methodologies have been utilized in medical education, which is an active area of educational research.^[2] Use of teaching aids in medical education technology is changing from blackboard to virtual simulations^[4] and teaching methods range from lectures to integrated teaching.^[5]

Teaching is an art. By making use of best teaching aid, teacher can teach and make the students understand,

remember and reproduce well; thus improving the academic performance of students. The educational media are the objects that help in teaching and learning activities and enhance the delivery of knowledge to the learners. In other words, educational media are learning devices that help the teacher clarify, establish, correlate and coordinate accurate concepts and interpretation to make learning more concrete, effective, interesting and meaningful.^[6]

Medical teachers have conventionally been using different teaching aids to educate medical students previously dominated by blackboard and slide projectors. More recently audiovisual aids such as videotapes and multimedia have been introduced.^[7] A learner's learning style, whether visual, auditory or kinesthetic, is usually

resistant to change.^[8] Hence it is likely that mismatches exist between the learning styles of medical students and the teaching styles of medical teachers.^[1]

Nursing is an art and science. Nursing education has come out from its traditional way of teaching learning and has adapted various innovative teaching learning methods. At the same time the formal lecture is among the oldest teaching methods that have been widely used in nursing education. The other methods emerged in teaching learning are discussion, seminars, symposium, field trip, assignments etc. are successfully implemented in nursing education. The methods chosen for teaching learning activity may be based on background of the students as well as the course they are undertaking and the year of study. Delivering a lecture is made easy and better by use of audiovisual aids such as black board or white board, overhead projector and power point presentation.^[6] Nursing students prefer flexible audiovisual aids for their convenience during teaching learning process. Teaching aids prove effective only when they suit the teaching objectives, unique characteristic of the learners, age level and grade level of the learner. The audiovisual aids used in teaching nursing students may be black board, bulletinboard, poster, flashcards, charts, cartoons, graphs, globe, maps, pappets, models, specimens, pamphlet, leaflet, overhead projector, power point, epidiascope, filmstrip, LCD panels, radio and recordings. But the maximum benefit of audio visual aid is obtained only in conjunction with a well-structured lecture and other methods of teaching.^[9,10,11,12] They help in giving clear concepts & thus help to bring accuracy in learning. Also it helps in reduction of verbalism.^[13]

A study showed that chalk and board was the most preferred teaching aid (62%) followed by combination of teaching aids (21.8%). Among the study participants, 87.4% students felt that chalk and board is effective for copying diagrams easily, 79.3% perceived it better for problem solving. The same parameters scored less with PPT i.e., 3.4%, 14.9%, 19.5% respectively. Students felt black board was ineffective for demonstration of clinical conditions (98.8%), covering more subject per lecture (82.8%). Chalk and board teaching remains as a best preferred teaching aid which can be supplemented by PPT and OHP to improve teaching.^[14]

A research has shown that 90.2% of the study sample i.e., the medical students felt that they were stimulated for further reading when they had lecture which was augmented by the use of visual ads. They preferred the use of combination of audiovisual aids and drawings during didactic lecture. In listening and understanding of particular topic, power point as well as black board being preferred. About 62.4% of the students were interested the taking notes during class compared to handouts.^[13] It was also seen that as per the subject, the student prefer power point presentation teaching the most. As far as students preference is concerned the impact of traditional

chalkboard and power point presentation teaching was much more than lectures using transparencies and overhead projector.^[15]

It was also studied that combination of teaching aid is the most satisfied teaching aid as the inherent deficits of one aid can be compensated by the others.^[6] In another study 47% of students preferred multimedia, 38% preferred power point, 10% preferred Blackboard and 5% preferred over head projector respectively. Most of the students preferred multimedia because they felt it was relevant, given important information and helps to grasp the content.^[5]

Another researcher studied the perception of medical students regarding blackboard (BB), overhead projector (OHP), power point(PPT) and the combination and to generate recommendation for their optimal use. It was observed that students enjoyed the lecture delivered by combination of black board and power point presentation.^[16] Another study conducted on medical students to find their preference of methods of teaching and audiovisual aids, showed that most of the students' preferred teaching method was 'Problem based learning' (71.4%) as the students felt that it enhanced lateral thinking, while didactic lectures was the least preferred (32.8%). In the case of AV aids blackboard is preferred by the most of the students (46.9%).^[17]

Yet another study analysed the effect of power point and lecture on student's achievement in nursing. There found a significant statistical difference ($p < 0.05$) between the scores of both groups after instruction. This significant difference indicated that the use of traditional chalk and talk method for teaching had positive impact on nursing students.^[18]

Nursing education is focusing on using wide variety of teaching learning activities to make the learning interesting and effective. Nursing students have been exposed to lectures with an expectation of memorizing a great deal of lectured nursing information and they then they need to utilize this knowledge in the future during the clinical postings. When a teacher uses various teaching learning methods and audiovisual aids, sometimes these methods are based on teacher's choice and many a times students' preference is not counted.

The aim of the study was to elicit the preference of nursing students on various teaching learning methods used in nursing as well as audio visual aids used in teaching learning process in nursing.

SUBJECTS AND METHODS

A quantitative research approach with descriptive survey design was adopted for the study. The study was conducted in selected nursing colleges of Mangaluru. The variables under study were - students' preference of teaching learning methods and audiovisual aids and the demographic variables of students. The population under

study were the nursing students of selected nursing colleges. Among those fulfilled the sampling criteria, 100 students were selected as study samples. Non probability convenience sampling technique was used to select the sample for the study. The tool used for the study was Demographic Proforma, and Likert scale to assess the preference of nursing students regarding the current teaching methods and the audio-visual aids used in teaching learning process. The tool was validated and reliability calculated. Tool found to be reliable. After obtaining the ethical clearance, informed consent was taken from the study participants. Then the data was collected and analyzed using descriptive and inferential statistics.

RESULTS

The study result showed that majority (37%) of the study sample belong to the age group 17-21 and 22-24 years each. Majority (91%) were females. Majority (47%) were studying B. Sc. nursing. Majority (37%) were in the second year of course. Majority (78%) studied from state board of education. Majority (63%) studied in English medium schools. Half of the study samples studied in

government school where as the other half went to the private school. Majority (93%) of the study samples have been exposed to audiovisual aids in school.

Data in fig 1 shows that majority of the study sample strongly preferred field trip (52%), nursing rounds(55%), demonstration (80%), bedside teaching (58%). Fig 2 explains the preferred audio visual aid. It is seen that The majority of the study participants strongly preferred computers (61%), models and multimedia (49%), specimens and white board (48%), LCD projector (66%), slide projector (53%), and blackboard also remained the most preferred (64%)AV aid. With reference to the overall students preference of AV aids based on various aspects of learning is presented in fig 3. It shows that 51% preferred mix of AV aids, 27% preferred PPT, 9% preferred OHP and 31% preferred black board.

The study did not find a significant association between the students preference of teaching learning method, audiovisual aids and the selected demographic variables (p>0.05).

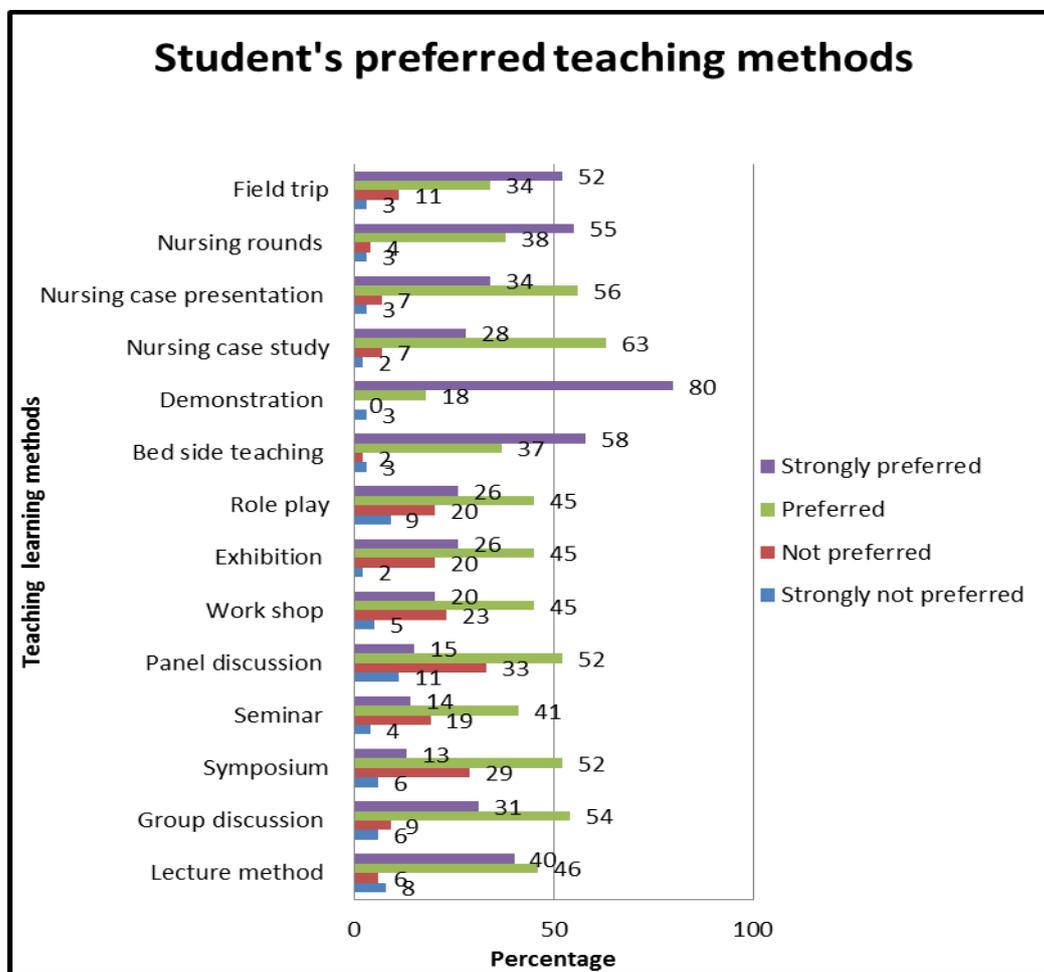


Fig. 1: Preference of students regarding teaching methods.

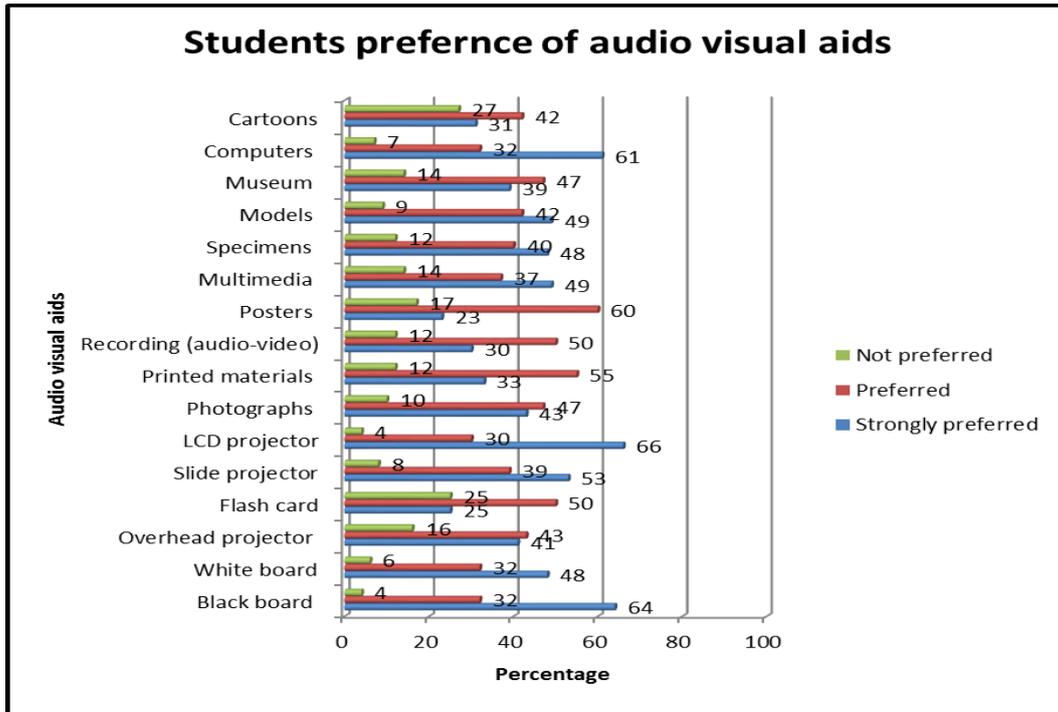


Fig. 2: Students preference of audiovisual aids.

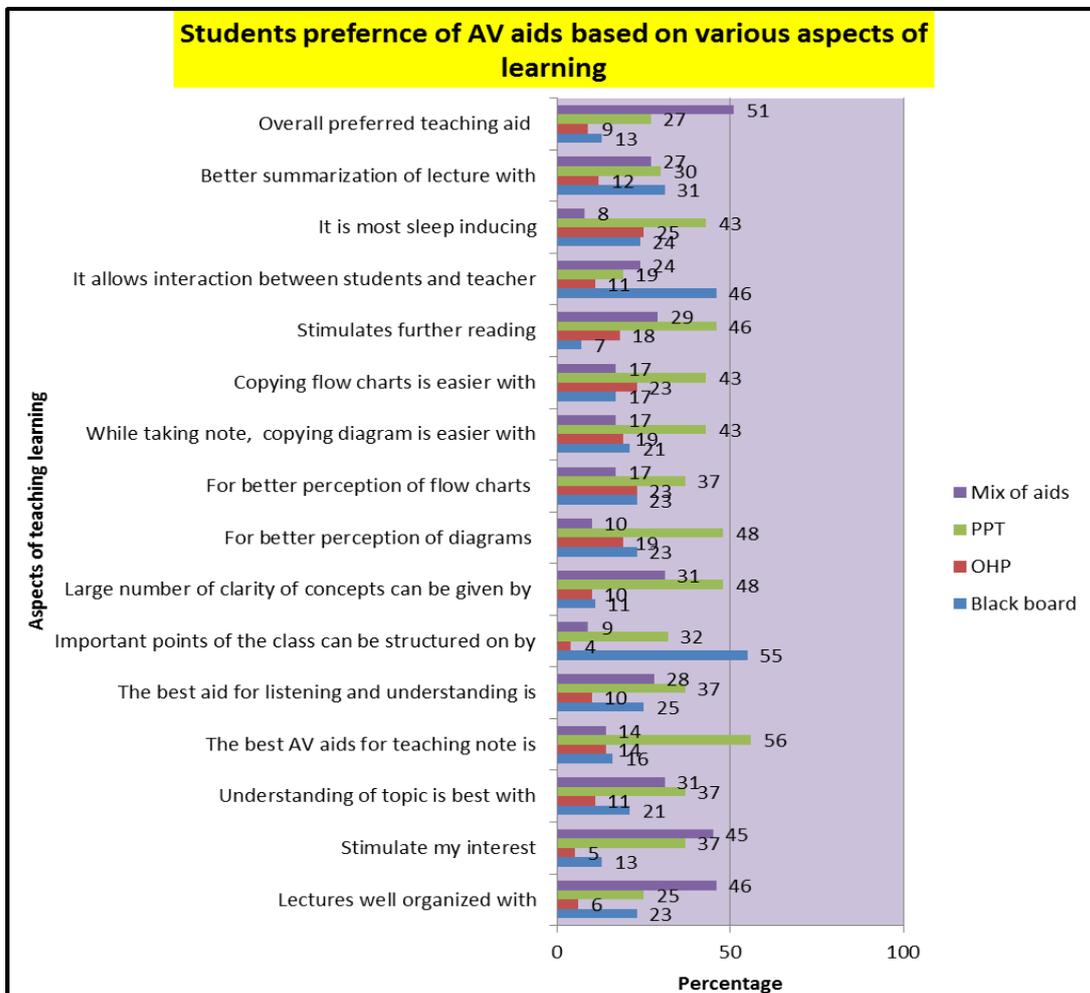


Fig. 3: Students preference of audiovisual aids based on various aspects of learning.

DISCUSSION

The current study was conducted among nursing students. In the study the majority (37%) of the sample belonged to the age group of 17-24 years and majority (91%) were females. These study findings are supported by a study conducted on assessment of undergraduate nursing students on use of hypermedia education on peripheral venous punch which reported that the participants were the nursing students, majority (88%) were females in the age group of 22-24 years.^[19]

With reference to the preference of students regarding teaching learning methods, in the present study it was seen that majority of the study sample strongly preferred field trip (52%), nursing rounds(55%), Demonstration (80%), bedside teaching (58%), whereas majority of the samples preferred nursing case presentation (63%), role play, exhibition and workshop (45%), panel discussion and symposium (52%), group discussion (54%) and lecture method (46%). These study findings are consistent with a study conducted earlier which showed that among the medical students the preferred teaching method was 'Problem based learning' (71.4%) as the students felt that it enhanced lateral thinking while didactic lectures was the least preferred (32.8%).^[17] In another study it was reported that majority (41.58%) of the students felt that formal lectures are the most interesting amongst different teaching methods adopted at present.^[20]

Among the study participants, majority strongly preferred computers (61%), models and multimedia (49%), specimens and white board (48%), LCD projector (66%), slide projector (53%), and blackboard also remained the most preferred (64%) AV aid. Majority of the students opined that PPT was useful for better summarization of lectures (30%), stimulating further reading (46%), easy to copy the flow charts (43%), easy to copy diagrams (43%), better perception of flow charts (37%), for better perception of diagrams (48%), for clarity of concepts (48%), it is a best aid for listening and understanding (37%), helpful in taking down lecture notes (56%), for understanding topics in a best way (37%) whereas majority (43%) of the sample said that PPT is the most sleep inducing audiovisual aid.

These findings are consistent with a study findings which showed that 47% of students preferred multimedia, 38% preferred power point, Blackboard and Over head projector preferred by the students as a teaching aid by 10% and 5% of students respectively. Most of the students preferred multimedia because it was relevant and given important information and 40% said it helps to grasp the content.^[1] Another study reported majority (81.6%) of the students showed the preference for the use of a combination of visual aids during the lecture classes. Students preferred blackboard for copying diagrams.^[6] In another study conducted on nursing students showed that where more than 97% of respondents emphasized the value of chalk and talk and

declared it as the more effective and useful teaching tool in their learning experience compared to Power Point (86%) and recommended it for teaching.^[21]

CONCLUSION

The present study has shown that nursing students prefer lecture method where as they strongly preferred bedside teaching, demonstration, nursing rounds and field trip as the teaching learning methods. This may be because nursing is an art and science. Students have also shown their preference to other teaching learning methods like group discussion, symposium, seminar, panel discussion, exhibition and role play. When it comes to AV aids, blackboard, LCD projector, multimedia, specimens, models and computers were strongly preferred. They have given their overall preference to use of mix of AV aids. This provides insight into student's perceptions which will be very useful in identifying their expectations or requirements by the teachers. Therefore nursing teachers should look into the best way to select appropriate teaching learning methods as well as audio visual aids to make the teaching learning process effective.

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