CHAPTER-III

MATERIALS AND METHODS
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This chapter deals with the methodology of research adopted to conduct the study. A research methodology defines what the activity of research is how to proceed, how to measure progress and what constitute success of the study. Research Methodology is the most important part of any research study, which enables the researcher to form the blue print for the study undertaken.

Research Approach:

The survey method was selected as the research approach as it was found to be more suitable for collection of data from a relatively large number of cases. To obtain factual information on description of the knowledge on Sexual Health Education among High School students and teachers, a descriptive survey approach seemed more appropriate.
**Research Design:**

To fulfill the objective of the study, the descriptive survey design was used for collection and analysis of data. The attributed variables included in the study were education level of the students & teachers, types of schools, course of the school, medium of the school, age, sex, Religion, place of resident, socioeconomic status of the parents, types of family, and number of siblings.

**Variable under Study:**

The variables are the focus of the study and reflect the empirical aspects of the concepts being studies.

**Dependent Variables:**

A dependent Variable is the condition or characteristic that appears or disappeared as a result of an independent variable. For the present study the dependent variable are:

- Knowledge regarding Sexual Health Education of the Students and Teachers.
• Attitude towards Sexual Health Education of the Students and Teachers.
• Practice related to Sexual Health Education of the Students and Teachers.

**Independent Variable:**

The independent is the Variable that can bring changes in the dependent variable. The Independent Variable for the current studies and Demographic Variable such as: Type of School, Category of the school, Course of the school, Medium of the school, Age, Sex, Religion, Marital status of the teacher, Type of house, Type of Family, Relationship between Parent and child, Education of Parent, Occupation of Parent, Income of Parent.

**Development of the tool:**

In the attempt to assess the Knowledge, Attitude and Practice of the High School students and teachers regarding Sexual Health Education, an instrument was prepared in the form of questionnaire. A semi structured questionnaire was developed by the investigator based upon a review of the literature. A summated rating scale is the Likert scale to express attitude.
Description of the Tool:

The questionnaire consisted of five parts for students and teachers.

**Part I:** This part of the questionnaire is prepared to collect the background data of the high schools students and teachers.

**Part II:** This part of the questionnaire is prepared to assess the knowledge of the students and teachers regarding Sexual Health Education. The content of knowledge regarding Sexual Health Education is divided into five areas it consist of 40 multiple choice questions for students and teachers.

The **five contain areas were as follows:**

**For the students**

1. Psychosocial and Psychosexual

2. Growth and development during Puberty changed.


4. Awareness about Sexually Transmitted Diseases

5. Awareness about Sexual Disorders.
For the teachers

1. Sexual Health Education program is needed to the school curriculum
2. Growth and Development during Puberty changed.
3. Reproductive Health
4. Awareness about Sexually Transmitted Diseases
5. Awareness about Sexual Disorders.

The resulting Knowledge Score is range as follows:

- Inadequate Knowledge score: 0-50%
- Moderate Knowledge score: 50-75%
- Adequate Knowledge score: 75-100%

Part III: This part of the questionnaire was prepared to measure the attitude, opinions and comments of the Students and Teachers regarding Sexual Health Education. It contains 20 separate items for the students and teachers. Here 5 point Likert scale is used. It is scale as strongly agree-4 point, agree-3 point, undecided-2 point, disagree-1 point, strongly disagree-0 point.
Part IV: This part consisting of 20 item of questionnaire was prepared for the students and teachers to see their Practices regarding sexual health.

Scoring of Practice level as follows:

Unhealthy Practice: 0-50%
Healthy Practice: 50-100%

Setting of the study:

The study was conducted in selected Government High schools, private High schools, English medium schools, and Assamese medium schools in boys, girls and teachers in same schools in Guwahati.

Population:

The population of the study was the high school student’s boys and girls studying class VIII, IX and X from each school, teachers male and female was included in this study.

Sampling Technique:

The list of the schools was obtained from the office of the Inspector of schools Kamrup District, Guwahati. There were no schools exclusively for boys. Schools are either girl’s schools or co-educational schools. A convenience sampling technique was used for selection of the Government
High schools in Guwahati. Among the 62 numbers of schools only 9 schools were selected for the purpose of the study. Similarly second list of Private school was obtained from the office of the Central Board of Secondary Education, Regional Office Hatigaon, Guwahati. Among the 72 numbers of schools only 9 schools were selected for the purpose of the study. A Stratified systematic random sampling technique was used to select students 20 numbers from each class irrespective of the total number of students in each class were selected e.g. VIII, IX, and X. Total 60 numbers of students were selected from each schools. Teachers were selected from same school who were present during data collection period. Hence a total sample 1000 students and 300 teachers were finally selected for the study.

Data Collection:

The permission was taken for the Government schools from the Inspector of schools Kamrup, Guwahati. For the Private schools permission was taken from Central Board of Secondary Education, Regional office Hatigaon Guwahati. Final permission was taken from each school’s principal.

Inclusion Criteria:

1. Students boys and girls those who were studying in class VIII, IX and X.

2. High school teachers both male and female.
Exclusion Criteria:

1. Students those who were studying in class VII and below.
2. Unwilling Students and Teachers.

Plan for analysis:

The data collected were tabulated and analysed by using SPSS (Statistical Package for the social sciences). Descriptive statistics are used to present the sample characteristics according to the selected demographic variables. Chi-Square test was used to find out the association between the Knowledge, Attitude and Practices of the students and teachers; Chi-Square was used to find association between Knowledge, Attitude and Practice and Demographic variables.

Summary:

This chapter describes the research approach, research design, sampling technique, development and description of the tool, the data collection plan and for data analysis.
SCHEMATIC REPRESENTATION OF RESEARCH DESIGN

A study on the Knowledge, Attitude and Practice on sexual health education among the students and Teachers of selected High schools in Guwahati, Assam

Research

Survey Research

Research

Descriptive Survey Research

Study Session

Government High Schools, Private High Schools of the

Target population

Boys and girls students study of class VIII, IX and X. Teachers who were present during data collection time. (Male and female)

Sampling Technique

Convenience sampling technique was used to select the schools Stratified Random sampling technique is used to select the students & teachers.

Sample

1000 students (boys & girls), 300 teachers (male & female)

Tool for data

Structured questionnaire are prepared regarding Knowledge, Attitude and

Dependent variables

Variable

Independent variable

Technique of data

Questionnaire method

Data analysis

Descriptive and inferential statistics