# ASSESSMENT OF UNDERSTANDING, MINDSET AND TRAINING ON MENSTRUAL HEALTH AND HYGIENE AMONG THE TEACHERS OF **UTTARAKHAND**

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### **Abstract**

Introduction: Menstruation is a normal and healthy aspect of life for women. Roughly half of the female population, around 26% of the global population, are of reproductive age (UNICEF, 2018). Despite this, numerous obstacles on school campuses, including fear, shame, uneducated and unsupportive teachers, and insufficient water, disposal facilities, and privacy, can impede effective menstrual management. Objectives: To Assess the Knowledge, Attitudes, and Training of School Teachers in Uttarakhand Regarding Menstrual Health and Hygiene Management. Methods: The responses of 367 teachers were collected through Google Forms from May 2022 - May 2023. It was a cross-sectional descriptive quantitative study using simple random sampling techniques. Microsoft Excel and SPSS version 20.0 used for analysis. Result: Most respondents (96%) are familiar with the concept of menstruation. Seventy-one percent are aware of menstruation as a physiological phenomenon. Seventy-five percent are aware of the origin of menstrual blood (Uterus). Seventy-two percent of school teachers reported that sanitary pads are available in schools. Seventy-four percent of teachers reported that schools provide separate toilet facilities, but only 85 percent reported proper water supply within the toilets. Conclusion: This study demonstrate the high level of understanding, positive mindset, and good training of MHM among the school teachers of Uttarakhand. The study found the promotion of appropriate measures for the disposal of sanitary napkins used in schools, workplace and public toilets can ensure better outcomes of menstrual hygiene. Regular orientations, awareness campaigns in school regarding menstrual hygiene management is essential to successfully remove taboos, misconceptions, and negative perceptions among the population.

Keywords: Understanding, Menstruation, Training, School Teachers, Menstrual Hygiene

### INTRODUCTION

Menstruation is a natural and healthy biological process for menstrual cups to prevent infections (Siddique et al., 2023). women. About half of the female population, approximately The WHO/UNICEF Joint Monitoring Programme 2012 defines average age at menopause is  $45.59 \pm 5.59$  years (Ahuja, 2016). barriers that impede effective menstrual hygiene management. years menstruating (UNICEF, 2018).

thoroughly and using sanitary products like pads, tampons, or

26% of the global population, are of reproductive age. Most menstrual hygiene management as: "Women and adolescent women experience menstruation every month, typically lasting girls using clean menstrual management materials to absorb or between two to seven days (UNICEF, 2018). Menstruation is the collect menstrual blood, which can be changed in privacy as first indicator of sexual maturity or puberty, during which often as necessary. This includes using soap and water for physical changes transform a child's body into that of an adult, washing the body as required and having access to safe and including changes in body size, shape, and proportions convenient facilities to dispose of used menstrual management (Mahajan et al., 2017). The age at which menstruation begins, materials. They should understand the basic facts linked to the known as menarche, typically ranges from 10 to 16 years, with menstrual cycle and how to manage it with dignity and without an average of 13.5 years. For women in India, the discomfort or fear." Despite this, menstruation and menstrual perimenopausal age is around  $44.69 \pm 3.79$  years, and the practices still encounter numerous social, cultural, and religious Over her lifetime, a woman will spend approximately seven Menstrual hygiene lacks attention and understanding in society among both males and females, especially in rural and slum Globally, there is a strong emphasis on the menstrual health and areas (Upashe et al., 2015). Factors contributing to absences in hygiene of girls and women in both developing and developed educational institutions and workplaces among women include nations. Various international and national non-governmental mindset, limited understanding, and misconceptions about organizations work to improve women's health status. Ensuring menstruation, family restrictions, and inadequate workplace menstrual hygiene for all adolescent girls and women is facilities (Siddique et al., 2023). Inadequate menstrual hygiene essential for maintaining women's health rights, public health, management and unsafe practices have contributed to the spread and dignity. Menstrual hygiene involves maintaining cleanliness of reproductive tract infections and sexually transmitted during menstruation, such as washing the external genital area infections. Menstrual hygiene education continues to be affected

by taboos, social isolation, and cultural restrictions, which often Material and Methods sexual and reproductive health (Mahajan et al., 2017).

menstrual hygiene and sanitary trainings (Patel et al., 2022).

The absence of educational support from health professionals menstrual hygiene submission event. and practical guidelines for implementing Menstrual Hygiene Management (MHM) in schools presents substantial barriers. Research Design Fear, shame, persistent social taboos, lack of awareness among This is a Cross-Sectional descriptive Quantitative study. A selfmanagement on school grounds. These systemic challenges hygiene among school teachers was used as a study tool. have adverse effects on the sexual and reproductive health of Research Setting (Sharma et al., 2020).

infringes on the girls' dignity (Sharma et al., 2019).

The rising enrollment of girls in secondary and senior secondary in Uttarakhand. schools highlights the need for a comprehensive approach to **Duration of the Study:** create more menstrual hygiene-friendly schools, addressing The data collection for this study was performed in 1 year from 2020).

regarding menstrual hygiene management. All teachers included this research was 21 to above 51-year-old age group. in the study demonstrated good understanding of menstrual Inclusion and exclusion Criteria: al., 2023).

urban and rural areas of Uttarakhand revealed that only 64.5% of training. of adolescent girls were aware of menstruation before reaching Criteria for Sample Selection menarche. Rural adolescent girls menstrual hygiene compared to their urban counterparts (Juyal approximately

The objective of the current study is to assess the This formula is most simplified and used to calculate sample Understanding, Awareness, and Trainings (KAP) regarding size when the population is large or unknown menstruation and menstrual hygiene among school teachers in Uttarakhand.

result in adolescent girls lacking essential knowledge about Menstrual hygiene day is a global awareness day that takes place on May 28th. It was started in 2013 by a German NGO called The experience of menstruation for women and girls is still WASH United and was first recognized by United Nation in shaped by cultural taboos and discriminatory social norms. 2014. It was chosen to be held on May 28th due to the fact that Insufficient information about menstruation can lead to the average period cycle of most women is 5 days and their cycle unhealthy practices and misunderstandings, contributing to is 28 days. On May 28th, 2022, the RDI (Rural Development negative attitudes such as shaming, persecution, and even Institute) and State Education Department of the state of gender-based violence. Over generations, inadequate menstrual Uttarakhand launched a 3-hour online session on menstrual health and hygiene have worsened social and economic hygiene management for all teachers. The online session was disparities, adversely affecting education, health, safety, and held every Saturday and district wise teachers participated overall human development. (The World Bank, 2022). In India, systematically. The total number of teachers took part in the menstruation remains a sensitive and important sanitation issue, session was 8,272. The program ended on May 28th, 2023. On yet adolescent girls and women often do not freely discuss the last day of the program, over 200 teachers and adolescents, as well as other state officials, participated in the State-level

teachers, and inadequate support, along with insufficient water, administered, structured, pretested, closed-ended undisclosed sanitation facilities, disposal options, and privacy, all hinder the questionnaire consisting of questions on understanding, creation of a safe and hygienic environment for menstrual awareness, and trainings regarding Menstruation and menstrual

adolescent girls, impacting their education and self-esteem The detailed analysis of the Population Census 2011 published by the Government of India for Uttarakhand state reveals that Many schools (government, semi-government, and private) lack Uttarakhand is a state with a population of approximately 1.01 vending machines for menstrual hygiene management. crore and the density of this state is 189 per square kilometer Adolescent girls, curious about their body changes during this (Census, 2011). As per the 2015 statistics of the Ministry of active learning phase, often receive incomplete information due Education of Uttarakhand, there are 43,731 teachers in to parents' lack of time and hesitance to discuss menstruation Secondary school. The number of Adolescents in Uttarakhand with school teachers. This leads to health issues such as urinary is about 2.2 million whereas adolescent boys are approx 1.1 tract infections, pelvic inflammatory diseases, vaginal thrush, Million and Adolescent girls in Uttarakhand is 1 million. bad odor, soiled garments, and ultimately, shame, which Approx 8,272 teachers were trained in our training session regarding the Menstruation and menstrual hygiene management

issues such as school dropouts and absenteeism (Sharma et al., May 2022 to May 2023 through an online questionnaire distributed to the study population via Google form. Later, the The study conducted in rural India involved school students and data was compiled and statistically analyzed, and the results teachers to assess their understanding, mindset, and trainings were put together. The category of study population involved in

hygiene management, and 100% reported a positive mindset The teachers who was participate in the training orientation of towards menstruation and hygiene trainings (Ravindranath et Menstrual hygiene management. Both male and female teachers involved in the study. Exclusion Criteria: Participants those A comparative study conducted among adolescent girls from who did not give consent. Teachers who were absent on the day

exhibited greater The sample size is based on the inclusion and exclusion criteria. understanding and better trainings regarding menstruation and Cochran formula was used to calculate the sample size, 8000 teachers got Menstrual Hygiene Management Training.

$$n = \frac{z^2 pq}{e^2}$$

Whereas,

z= confidence level of 95%, so z value is 1.96

p= estimate proportion for maximum size = 50% or 0.5 q= 1-p e= precession of the prevalence estimate =5% or 0.05 Population = 8000 n= sample size

n= sample size Therefore,

$$n = \frac{(1.9)^2 \times 0.5 \times (1 - 0.5)}{(0.05)^2}$$

$$n = 367$$

Using the Cochran formula, the calculation of sample size was 367.

# **Process of Data Collection**

For the final study, data was collected through a Google form having the questionnaires involving 367 responders, who were teachers at different schools (government, semi-government,

and private). The purpose of study clearly explained to each and every responders and appropriate consent were taken prior the interview. The Simple Random sampling technique was followed, and a descriptive analysis and analytical analysis of the collected data was done.

### **Statistical Data Analysis**

The collected responses were tabulated using Microsoft Excel and transferred to SPSS version 20. All responses were coded according to standard tools. Quantitative findings were analyzed based on data distribution. Microsoft Excel and the Statistical Package for the Social Sciences (SPSS) Windows version 20.0 were used to calculate frequency distribution, mean, and standard deviation to describe the socio-demographic characteristics and other data of the sample population. The results of the quantitative data are presented in the results section with appropriate tables, bar graphs, and pie charts.

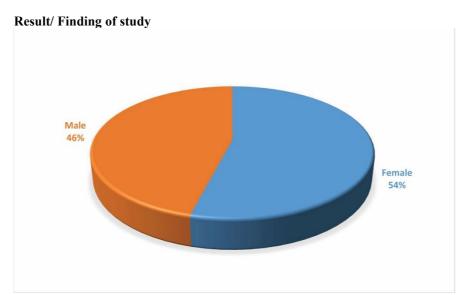


Figure 1- Gender wise distribution of teachers

Figure -1 shows the graphical representation of the gender distribution of study participants. Out of 367 participants, 46% participants were males whereas 54% participants were females.



Figure -2 Age of Teachers

Figure -2 depicts the distribution of participants based on their age groups. Among the 367 participants, 4.5% participants from

31-40 years of age

group, 32.1% participants from the 41-50 years of age group, 26.3% participants from the above 51 years of age group. This

the 21-30 years of age group, 37.1% were participants from the figure shows that most participants were from 31-40 years of age and the minimum number of participants was from 21-30 years of age.

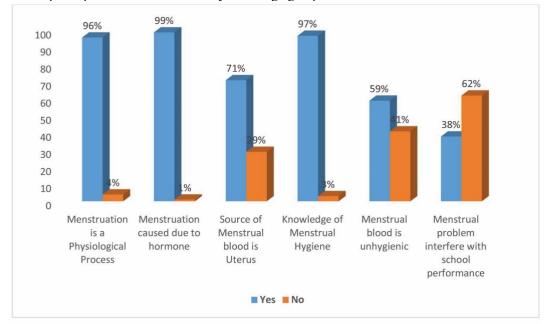


Figure 3: Understanding about menstruation and menstruation hygiene management

### **Understanding & Awareness about menstruation**

71% of respondents that the source of menstrual blood flow statement. from Uterus while 15 % responds to the Fallopian tube and 13%

responds to the Vagina. 97% of study participants know about Figure 3 shows the level of understanding and awareness about Menstrual Hygiene. 59% of respondents agree that menstrual Menstruation among the study participants. 96% of respondents blood is unhygienic whereas 41% of respondents have the are aware that menstruation is a physiological process in perception that menstrual blood is not unhygienic. 38% of females. 99% of respondent's responses for menstruation are respondents think that menstrual problems interfere with school caused due to hormonal changes in females. Awareness among performance while 62% of respondents disagree with this

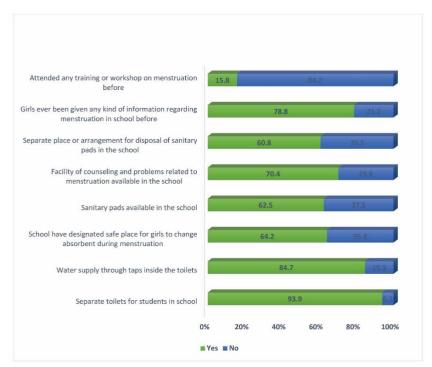


Fig.4 Facilities and services for menstrual hygiene management

### **Facilities and services for menstruation**

yes/no) related to facilities and services regarding Menstrual sanitary napkins on school premises. 94% responses from hygiene Management, and some basic questions were asked to teachers that schools have separate toilet facilities but only 85% the participants (e.g., "Do you have separate toilets for girls and indicated that proper water supply inside the toilets. Only 61% boys in your school?," "facility of counseling and problems of school teachers responded that separate arrangements for the related to menstruation available in the school?") (see details disposal of used sanitary napkins whereas other respondents do in figure 3). 84% of participants did not attend any workshop or not have the facility in their school premises.

training on Menstrual Hygiene Management whereas only 62% Figure 4 depicts Eight-item questions with two options (e.g., of school teachers responded that there was an availability of

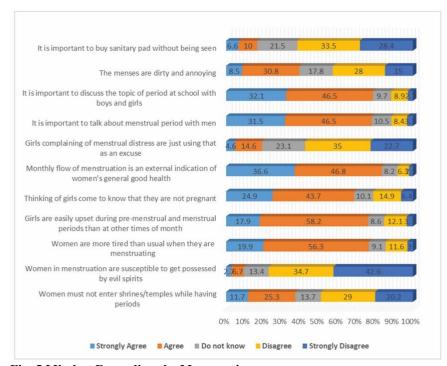


Fig. 5 Mindset Regarding the Mensuration

# **Mindset and Training regarding Menstruation**

(e.g., Strongly Agree, Agree. Do not know. Disagree, and 2023). Strongly Disagree) related to the Mindset and training of In the present study, a total number of 367 participants were of respondents disagree with this statement.

# DISCUSSION

Numerous studies have examined understanding, awareness, 2022; Sharma et al., 2019; Gebre et al., 2023).

understanding, awareness, and trainings (Mahajan et al., 2017; Sharma N. et al., 2013; Siddique et al., 2023; Upashe et al., Figure 5 showed that Eleven-item questions with five options 2015; Patel et al., 2022; Sharma et al., 2019; Ravindranath et al.,

respondents regarding Menstrual hygiene Management, and engaged. Out of 367 participants, 46% participants were males some basic questions were asked to the participants (see details whereas 54% participants were females. In other studies only in figure 4). The respondents of the study most favorably agree the female category was involved (Mahajan et al., 2017; and strongly agree with the discussion about Menstruation and Siddique et al., 2023; Upashe et al., 2015; Hagawane et al., Menstrual Hygiene Management with school boys and girls as 2021; Patel et al., 2022; Sharma et al., 2019). In this study well as men. According to 19% of respondents girls who were among the 367 participants, 4.5% participants from the 21-30 complaining the menstrual distress are just making an excuse. years of age group, 37.1% were participants from the 31-40 76% of respondents agree with tiredness among women during years of age group, 32.1% participants from the 41-50 years of menstruation. Approximately 37% of respondents agree that age group, 26.3% participants from the above 51 years of age menstruating women must not enter shrines/Temples while group. This figure shows that most participants were from 31-13.7% do not agree regarding this myth and approximately 49% 40 years of age and the minimum number of participants was from 21-30 years of age. In other similar studies, only the Adolescent age group (10-19 years) was included (Mahajan et al., 2017; Siddique et al., 2023; Upashe et al., 2015; Patel et al.,

and trainings of menstrual hygiene, but most have focused on In the present study majority (96%) of school teachers knew that rural populations or adolescent school girls. This study aims to menstruation is a physiological process caused due to hormones. address a significant gap by assessing the Understanding, Another study showed that 76.9 % of girls knew that Awareness, and Trainings (KAP) regarding menstruation and menstruation was a physiological process (Upashe et al., 2015); menstrual hygiene among school teachers in Uttarakhand. In another study, 78.9% indicated menstruation is a Similar studies have been conducted both nationally and physiological process, and 55.8%) knew that the cause of internationally on adolescent girls' menstrual hygiene menstruation is hormonal (Gebre et al., 2023). In this present

blood was Uterus whereas a study reported 12.63% knew that it 2020). 100% of teachers had good understanding and positive comes from the uterus (Hagawane et al., 2021). Another study mindset about menstruation (Ravindranath et al., 2023). reported that 60.9 % of the respondents knew the origin of the menstrual blood was from the uterus (Upashe et al., 2015).

disagree with this statement.

females. 94% responses from teachers that schools have maintenance of Menstrual Hygiene among them separate toilet facilities for girls and boys but only 85% indicated that proper water supply inside the toilets. Only 61% LIMITATION of school teachers responded that separate arrangements for the The collected responses may be subject to recall bias, response Hygiene Management before the questionnaire was distributed. bias, given the sensitivity of the topic of menstruation. The trainers enhanced understanding and awareness about the causes of menstruation and the organs involved. They also ACUNDERSTANDINGMENT initial stages of their lives.

well as men. 19% of respondents responded that girls who were who contributed and Participated in the study. complaining the menstrual distress were just making an excuse. 76% of respondents agree with tiredness among women during **References** menstruation. Approximately 37% of respondents agree that 1. menstruating women must not enter shrines/Temples while know 13.7% do not know about this myth and approximately 49% of https://www.unicef.org/press-releases/fast-facts-nine-thingsrespondents disagree with this statement. A similar type of you-didnt-know-about-menstruation restriction was reported in other studies also (Sharma N. et al., 2. Mahajan, Anjali; Kaushal, Kanica. (2017). A descriptive 2013).

In the present study, all the study participants had good menstrual hygiene among adolescent girls of the Government understanding, positive mindset and appropriate trainings School of Shimla, Himachal Pradesh. CHRISMED Journal of regarding menstruation and menstrual hygiene among school Health and Research. DOI: 10.4103/cjhr.cjhr 103 16 teachers and the comparative study showed that good 3. Ahuja M., (2016). Age of menopause and determinants of understanding, mindset, and training among participants menopause age: A PAN India survey by IMS. J Midlife Health. (Siddique et al., 2023; Gebre et al., 2023; Ravindranath et al., 2016 2023) and half of the participants have good understanding, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5051232/ mindset, and training regarding menstruation and menstrual 4. Siddique A.B., Nath S.D., Mubarak M., Akter A., Mehrin S., hygiene (Upashe et al., 2015; Siddique et al., 2023; Sharma N. Hkatun M.J., Liza P., and Amin M. Z. (2023). Assessment of et al., 2019). Some study shows that insufficient understanding understanding, mindset, and trainings regarding menstruation

study, 71% of the study population knew the source of menstrual (Hagawane et al., 2021; Odey et al., 2022; Sharma S. et al.,

### **CONCLUSION**

In this study, 69% of respondents responded that 3-4 times Menstruation and Menstrual hygiene are rarely discussed at clothes/pads should be changed in a day during menses while schools, at home, and in society. The current study shows that 22% responded 1-2 times and 8% responded 6-8 times. A there was 98% good understanding, positive mindset, and comparative study showed that 60.7% of girls preferred to use satisfactory training regarding Menstruation and Menstrual absorption materials for less than four hours (Odey et al., 2022). hygiene among school teachers. Establishment of proper Out of 367 study participants, 59% of respondents agree that arrangements for the disposal of used sanitary napkins in menstrual blood is unhygienic whereas 35% of respondents schools, workplaces, and public washrooms/Toilets. Teachers have the perception that menstrual blood is not unhygienic while and peers should be trained with the correct information as well 80.0% were aware that menstrual blood was unhygienic (Gebre as communication skills at the school and community level so et al., 2023). 22% of respondents think that menstrual problems that adolescent girls get ready for physiological changes in their interfere with school performance while 62% of respondents growth phase. Awareness campaigns or counseling sessions organized in school (involving boys, girls, and teachers also) In the study assessment of facilities and services provided to regarding Menstruation and Menstrual Hygiene Management to females in school menstrual hygiene management through successfully get rid of taboos, false beliefs, and unfavorable school teachers. 62% of school teachers responded that there mindset among the population. Countless women suffer from was an availability of sanitary napkins on school premises and Reproductive Tract Infections and their complications or other 38% of school premises did not have sanitary napkins for infections due to a lack of information regarding the

disposal of used sanitary napkins whereas other respondents do bias, and social desirability bias, potentially impacting their not have the facility in their school premises. Only 1/5<sup>th</sup> of the accuracy due to the self-reported nature of the measures. school teachers attended any workshop or training on Menstrual Additionally, the results might be influenced by information

promoted the use of sanitary napkins among adolescent girls and The authors would like to express their appreciation for the briefed the teachers on various schemes related to menstrual financial support they received from Wipro care for the conduct health. Early awareness among adolescent girls can help prevent of the study. They would also like to express their gratitude for various reproductive tract infections and other diseases at the the valuable contribution and input of the Ms B.Maithili, Director, RDI and the support they received from the Field In the present study, the respondents most favorably agree and workers from the Rural Development Institute, Hospital Trust strongly agree with the discussion about Menstruation and of Himalayan Institute. They also take this opportunity to Menstrual Hygiene Management with school boys and girls as express their gratitude to the school authorities and adolescents

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