Abstract:

Introduction: Sleep, a neurobiological phenomenon, is very essential component for the behaviours of human beings. Sleep Hygiene is essentially a term which is used to understand lifestyle and environmental factors that influence sleep. A student when get admission in a university, it’s a turning point in his/her life as previous routine is dramatically altered. This is more so if a student enters a medical college or university. While studying medicine the syllabus, timetables, duties, shifts are all manifold and hence it changes the complete environment and lifestyle of nearly all students. This in turn leads to drastic change in the pattern of sleep hygiene.

Objective: This study was conducted to assess the awareness of sleep hygiene among medical students.

Methodology: This cross-sectional study was conducted from March –August 2019. The approval of study sought from Ethical Review committee of Isra University. A self-administered questionnaire used to collect data after student’s verbal consent and ensuring their anonymity. Using convenient sampling technique 467 medical students were studied including those from 1st year to 5th year students. The data was analyzed using SPSS version 21.0.

Results: Showed that 59.5% of the students have not heard about sleep hygiene, 31.5% have heard it and 9% of them were not sure about it.77% of participants use social media, 72% takes shower and 63% of the students wash their face before going to the bed.

Conclusion: We concluded that majority of the medical students are unaware of Sleep Hygiene and a large portion of them uses social media before going to bed.

Key Words: Sleep Hygiene, medical students, awareness.
The 24 hours sleep-wake circadian rhythm is biologically settled indigenously but is highly dependent upon the external factors such as light, temperature, and social disruption. Sleep hygiene has been reported to be efficient in adolescents and young adults. Medical students have very tough study burden and frustrating working schedule, they ordinarily shorten their sleep for sparing time, also having poor sleep practices or sleep hygiene due to the stress of their examinations and study burden.

Good sleep influences both physical and mental health. Healthy sleep contributes towards a healthy life and increases the ability of a person to perform daily routine work and responsibilities in a better way. Improper sleep hygiene practices or having disturbed sleeping pattern can cause bad impact on the quality of life. Sleep hygiene is a recent entity, awareness of sleep hygiene and sleep hygiene practices have never been studied in medical students of Karachi. Most medical students complain more of sleep problems due to their academic requirements, the objective of our study was to know the awareness of sleep hygiene among students and the practices which they make for their sleep.

Objectives:
To assess awareness of sleep hygiene among medical students
To know the sleep hygiene practices in medical students

Methodology:
This Cross-sectional Study was conducted at Al-Tibri Medical College, Karachi. Isra University from March 2019 to August 2019. Study participants were students from 1st year to Final year MBBS. Permission sought from Ethical Review Committee, Isra University. Sample size was 467 and obtained through Convenient sampling. All post graduate student and students from the other disciplines of the University

Questionnaire:
A questionnaire developed with open as well as close ended questions and pre-tested upon 50 medical students; ten from each year from first to final year MBBS. Self-administered questionnaire was distributed among all the students from first to final year MBBS after their verbal consent and explaining ensuring their anonymity. Response rate was 100%. The variables of interest for current study were “Place of residence, awareness of sleep hygiene, having difficulty to sleep again after waking up in mid sleep, difficulty in waking up in the morning & sleep hygiene practices”. The data analysis was done on SPSS version 22.0 for percentages and frequencies.

Results:
Among 467 participants, 59.1% (n=276) were male and 40.9% (n=191) were female; the age ranges from 18 to 24 years with a mean age of 21.13 years. From the 1st year number of respondents were 95 (20.3%), 2nd year 100 (21.4%), 3rd year 99 (21.2%), 4th year were 93 (19.9%) and final year were 80 (17.1%). Students who reside in hostel were 346 (74.1%) while 121 (25.9%) students were residing in different areas of the city.

Fig-1. Have you ever heard about Sleep Hygiene?

Fig-2. It depicts the students who have difficulty to sleep again after awakening in midnight.
Discussion:
Our study reveals that majority of MBBS students were not aware of sleep hygiene. Students are habitual to the practices which contribute in poor sleep hygiene and they frequently use social media and do not prefer to read a book or exercise before going to bed. Although the studies on sleep hygiene are very limited especially in Pakistan, one study conducted on sleep quality gives the result of poor-quality sleep (39.5%) & a large portion (72%) of the medical students goes to bed after 12am. A study conducted in Tamil Nadu India concluded that the large proportion of the students have improper sleep pattern and sleep hygiene practices even when they are adolescent. In Arabian Peninsula a study in Kuwait explores that large number of Kuwait University students are unaware of sleep hygiene which is consistent to our study as well. Only 30.5% of the medical students of King Saud University, Riyadh, Saudi Arabia has awareness of sleep hygiene which is comparable to our results which shows that 31.5% of our students have heard about sleep hygiene. Coming to the West side neighbor of Pakistan, a study in Tehran University of Medical Sciences Iran also witnesses sleep hygiene problems; the most significant among these is different timings to go to bed and caffeine intake with consequent adverse effect on sleep quality. Not only the sleep hygiene is poor but also the sleep time has reduced, a research has shown that students used to sleep one hour more in 1969 as compared to 2001.

Conclusion:
Awareness of sleep hygiene among medical students is very low, and the use of social media is high that contribute towards poor sleep.

References: