



Assessment of Self-Medication Practices Among Medical, Pharmacy, and Health Science Students in Gondar University, Ethiopia

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ABSTRACT

The study was aimed at assessing the magnitude and factors of self-medication among medical, pharmacy, and health science students of GCMHS (Gondar College of Medicine and Health Sciences). A cross-sectional study with two-month illness recall was conducted. A Questionnaire consisting of demographic questions and questions on illnesses in the last two months prior to the interview and treatment strategies was prepared and administered to the 414 students, selected as the sample population, from the GCMHS students. Of a total of 414 students, 213 (51.5%) reported at least one episode of an illness, and 82 (38.5%) of them practiced self-medication. Most drugs for self-medication were obtained from the pharmacy or drug shops; and the most commonly used drugs were Paracetamol and NSAIDs (Non-steroidal anti-inflammatory drugs). Common reported illnesses were fever and headache (24.8%) followed by cough and common cold (23.9%). Prior experience and the non-seriousness of the illness were the top two reported factors for self-medication. Reading materials were the top reported source of information. In conclusion, self-medication was practiced with a range of drugs from the conventional anti-pains to antibiotics. Although the practice of self-medication is inevitable; drug authorities and health professionals need to educate students about the pros and cons of self-medication.

Key words: Drug, Ethiopia, self-medication, students

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INTRODUCTION

In economically deprived countries most episodes of illness are treated by self-medication.^[1] In a number of developing countries many drugs are dispensed over the counter without medical supervision. In this case, self-medication provides a lower cost-alternative for people who cannot afford the cost of clinical service.^[2]

Studies revealed that the increase in self-medication was due to a number of factors. These included socioeconomic factors, lifestyle, ready access to drugs, the increased

potential to manage certain illnesses through self-care, and greater availability of medicinal products.^[3]

A study conducted in the southern part of Ethiopia showed that 15% of the persons with perceived illnesses practiced self-medication.^[4] In another study conducted in Addis Ababa and central Ethiopia, the magnitude of self-medication was as high as 50%.^[5] The study carried out in North West Ethiopia showed 27.2% self-medication prevalence in the study areas (i.e., Gondar, Dabark, and Kola-Diba).^[6] The previous study, included households in Gondar, did not consider Medical, Pharmacy, and Health

Science students, who differed from the general population of Gondar. They were exposed to knowledge about diseases and drugs, so they might be expected to behave differently. To our knowledge, there is no published data with regard to self-medication practice and the factors that affect the practice in GCMHS students. The objective of our study was, therefore, to assess the self-medication practice, assess common types of illnesses, and identify frequently used drugs and determinants of self-medication.

METHODOLOGY

Study site: Study was carried out in GCMS, North West Ethiopia. It is the oldest health professional training institute in Ethiopia. It was established in 1954, as a Public Health College and training center. The college is a pioneer in training Health Officers, Community Nurses, Medical Laboratory Technicians, and Sanitarians. Since then, the college is expanding its scope of activities and currently it is training students in Human Medicine, Pharmacy, Nursing, Midwifery, Environmental Health, Physiotherapy, Medical Laboratory Technology, Optometry, Anesthesia and Occupational Health and Safety. The students get healthcare services mainly from the Gondar University Hospital and also from different private and governmental healthcare settings providing this service.^[7]

Study population: The cross-sectional study was conducted on 414 students taken as a sample from 2485 students in GCMHS. The stratified sampling method was used to choose the respective number of students from each department and each study year during data collection. The sample size was determined according to the following assumption. As there was no previous study conducted in the study area of the college Medical and Health Science a 50% expected prevalence of self-medication and 2% of sample population was added to compensate for the loss.

Data collection and analysis: The pre-tested, semi-structured questionnaire was prepared. Data was collected from April 20 to May 15, 2007. The study subjects were informed that the information collected would be anonymous; and participation would be totally voluntary. The age, sex, and year of study were noted. The information regarding the type of medication, illness for which the medication was used and the reason for not consulting a doctor was collected. The pattern of drug use over a two-month period preceding the study was noted. Their attitude toward self-medication and source of information for those who practiced self-medication were also recorded. Data were analyzed using EPI Info version

6 and Microsoft Excel and the results were presented using absolute figures and percentages. Analysis was done by using the Chi-square test of significance, to identify the associations among variables.

Ethical issues: To obtain the consent of students prior to data collection, a detailed explanation on the aim and objectives of the study was given; and confidentiality was ensured.

Operational definition

- Self-medication is the selection and use of medicines by individuals to treat self-recognized illnesses or symptoms.

RESULTS

Four hundred and fourteen students were covered during the study period and 213 (51.4%) of them had faced health-related problems within the last two months prior to the study. Age distribution of those who had episodes of illness in the specified period is shown in Table 1. One hundred and twenty one (56.8%) of 213 were aged between 18 and 20 years, 84 (39.4%) students were aged between 20 and 24 years, and the rest were < 18 years and > 24 years of age, one (0.5%) and seven (3.3%), respectively. One hundred and seventy five (82%) were males and eighty-two (18%) were females. The respective number of students from each year of study is also given in Table 1. Seventy-five (35.2%) were first year students (included first year Medicine, Pharmacy, and Health Science Students), 67 (31.4%) were second year students, 46 (21.6%) were third year students, and 17 (8%) and eight (3.8%) were fourth and fifth year students, respectively. Among the self-medicators 54 (25.4%) were from the School of Medicine, 42 (19.7%) were from the School of Pharmacy, and the remaining 28 (13.1%) and 89 (41.8%) were from the School of Community Health and Health Science, respectively.

Fever and headache were the most frequently reported causes of morbidity; respiratory and gastrointestinal tract diseases were the second and third most common causes of morbidity, with a frequency of 55 (24.8%), 51 (23.9%), and 28 (13.2%), respectively. Other episodes of illness included diarrhea 19 (8.9%), malaria 13 (6.1%), pneumonia 13 (6.1%), constipation 12 (5.6%), and eye disease 8 (3.8%) [Table 2].

Eighty-two of the 213 students (38.5%) had practiced self-medication during the two months period preceding the study. As shown in Table 3 among 82 students who

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