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Original Study

Assessment and Evaluation of the Problem of Self-Medication among First Year Medical Students of Skims Medical College, Bemina

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Abstract:

BACKGROUND:Self-medication is a state when a person uses a substance to self-administer treatment for physical or mental ailments. There are some drugs in the market that one can buy without a prescription. These are safe and effective when taken as per the directions on the label and as directed by the General Practioner. The most widely self-medicated substances are these over-the-counter drugs. The Self medication is quite common practice in general and particularly among medical students. However self-medication can be quite harmful as well.

AIM: To assess and evaluate the problem of self-medications among the medical students of first professional MBBS in SKIMS Medical College ,Bemina,Srinagar.

SUBJECTS AND METHODS: This is a questionnaire-based, descriptive study. A prevalidated questionnaire was prepared and each student was asked to fill up the Performa and then the data was analyzed. A total of 100 First year medical students of SKIMS medical college participated in the study after taking proper verbal consent.

RESULTS:Out of the 100 respondents, 50 (50%) were males and 50 (50%) were females. The age group affected was 12-19 years. 74% of students practiced Self medication and the source of medication was local chemist (52%) or from drug pharmacy (22%).55% of the affected students are aware of side –effects of self medication as most of them read the leaflet before taking medicine (67%). However, 72% of the affected students take advice from others before taking the medicine. The reason for self medication by medical students is due to mild illness (43% cases) and past experience (27% cases) and the students found self-medication providing quick relief in common illnesses. Headache (66%) followed by common cold (30%), sore throat (25%), fever (23%) Acidity (22%) etc were the most common symptoms for which self medication was taken. Among drugs Paracetamol (58%) followed by anti-cold(23%), antibiotics(22%), cough syrup (21%), antacids(20%) were the main self medicated medicines. Most common age of students for starting self-medication were 16 years(26%) followed by 15 years(21%), 18 years(12%) etc. Only 15% of the students have some knowledge about trade name, course and dosage of drugs. Only 31% of students are aware about completing full course of antibiotic. About 47% students had a view that they are influenced by medical knowledge for self-medication. The Students' knowledge about the benefits and risks of self-medication was adequate although it was relatively poor so far as adverse effects of overall drugs were concerned(43%). Important disadvantages of self-medication mentioned were the risk of using inappropriate drugs, dosage, course and adverse effects of drugs.

CONCLUSION:self-medication seen in present study among the first year medical students is about (74 %) and is more or less comparable to studies from other parts of the world. The result emphasizes the amount of problem in the young medical students about self-medication and lack of awareness about dosage, course of drugs & side effects. Hence more strict regulations are needed to avoid more healthcare problems and have a responsible pattern of self-medication.

Key words: Self-medication, medical students, SKIMS medical college, pattern and incidence.

INTRODUCTION

Self-medication is use of medicines by the individuals themselves without proper prescription for the treatment of selfdiagnosed conditions. WHO has pointed out that practice of responsible selfmedication is an effective way of treating minor ailments and it also reduces burden on health care services. (1) Self-medication is an age old problem prevalent world-wide & taking medications without consulting doctor for common ailments like fever, common cold, cough, allergy,

as infection, acidity, headache, diarrhea, constipation etc.(2)These medications are generally available over the counter (OTC). Essentially use of medication by a patient on his own initiative or on the advice of chemist or any other layman instead of consulting a medical practioner, is called as self-medication.

ICV 2015: 52.82

Self-medication is affected by various factors some of them being socioeconomic (e.g. educational level, socioeconomic

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status, access to medical information,non-availability of health services , awareness about health etc), accessibility to medicine and health care facilities, health sector reforms among others (3). Improvement in peoples' general knowledge, level of education, socioeconomic status, and development of new technologies (e.g. internet and related communication) is promoting self-medication worldwide (4).

There can be many reasons for increased likelihood of self-medication among medical students like easy access and senior student's advice, easy access to physician samples, from pharmacist/chemist shops.(5)

Self-medication has both benefits and risks. Responsible self-medication can save scarce medical resources from being wasted on minor conditions, reduce the burden on health care facilities, and decrease the cost and time people spend to visit health care facilities for minor symptoms (4,6). However, inappropriate self-medication can have a number of potential risks for example delay in seeking appropriate medical advice; failure to recognize or self-diagnose contraindications, interactions with prescribed medicinal products; failure to report current self-medications to the prescribing physician (risk of double medication and/or harmful interaction); inappropriate duration of use of medicine; risk of dependence and abuse etc (4).

Despite of growing interest of research in this area little is known about self-medication among medical students especially in SKIMS medical college, bemina ,srinagar.

Therefore we believe that this research study will show the impact of this problem in medical students in particular and hence will reflect the amount of this problem in general population as well.

Therefore the necessary precaution, control and awareness can be initiated by the concerned authorities as well as the people at large.

MATERIAL AND METHODS

A pre-prepared questionnaire Performa was designed and after proper understanding and verbal consent ,100 medical students of first professional MBBS of SKIMS Medical College Bemina Srinagar were involved in the study in the age group of 17-20 years.

The choice of questions was based on various previous studies. Questions were objective and structural in nature. Students were asked not to write their name or roll number on the questionnaire sheet to ensure full anonymity.

On completion of the questionnaire the data was organized, tabulated and analyzed.

Sample questionnaire Performa for the study.

s.no.	QUESTIONS	ANSWERS
1	Age	
2	Sex	
3	Residence	
4	Religion	
5	Have you ever taken any of medication	
	of your own without a prescription from	
	doctor(Yes, No,can't say)	
6	Where did you get these medications	
	fromChemist/pharmacy	
7	Are you aware of the side effects of	
	these self-medications Yes/No	
8	Do you always read the information	
	leaflets before taking any of these	
	medicationsYes/No	
9	Do you take any advice from anyone	
	before taking such	
	medicationsYes/No	
10	Why do you take self-medications	
	Mild illness , Past Experience ,	
	Convenience , Time Saving ,Trial ,	
	Multiple Responses	
11	What was the common reason for use of	
	these medications Headache/Pain	
	abdomen/	
	Acidity/Fever/Commoncold/Cough/Vo	
	miting/ Diarrhoea/Backache/Sore throat/	
	Skin problem/allergy/toothache/motion	
	sickness	
12	Most common type of self-medications	
	usedParacetamol/analgesics/anta	
	cids/muscle relaxant/cough syrup/anti-	
	cold/anti-emetics/anti-allergic/anti-	
	diarrhoeal/anti-spasmodic/ antibiotics/calcium/multivitamin	
1.2		
13	Age at starting Self Medication	
14	Knowledge about Generic, Trade name,	
	Course and Dosage of Drugs,	
15	Aware of Completing full course of	
	antibiotic,	
16	Recommendation of drugs to other	
	family members	
17	Aware of side effects of drugs used	
18	Influence of medical knowledge towards	
	self- medication	

RESULTS

A total of 100 medical students of first year voluntarily participated in this study, Out of which, 50 (50%) were males and 50 (50%) were females. Their age range was (17-20 years). Out of 100 students 74% of students confessed taking Self medication at some stage and the source of medication

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was local chemist (52%) or from drug pharmacy (22%).55% of the affected students are aware of side -effects of self medication as most of them read the leaflet before taking medicine (67%). However, 72% of the affected students take advice from others before taking the medicine. The reason for self medication by medical students is due to mild illness (43%) and past experience (27%) and the students found selfmedication providing quick relief in common illnesses. Headache (66%) followed by common cold (30%), sore throat (25%), fever (23%) Acidity (22%) etc were the most common symptoms for which self medication was done.Among drugs Paracetamol (58%) followed by anticold(23%),antibiotics(22%), cough syrup antacids(20%) were the main self medicated medicines. Most common age of students for starting self-medication were 16 years(26%) followed by 15 years(21%) ,18 years(12%)etc. Only 15% of the students have some knowledge about trade name, course and dosage of drugs. Only 31% of students are aware about completing full course of antibiotic.. About 47% students had a view they are influence by medical knowledge for self -medication..The Students' knowledge about the benefits and risks of self-medication was adequate although it was relatively poor so far as adverse effects of overall drugs are concerned(43%). Important disadvantages of selfmedication mentioned were the risk of using inappropriate drug ,dosage, course and adverse effects of drugs

DISCUSSION

Self-medication is defined as use of drugs or medication without proper prescription, guidance or follows up by clinician. (7) In developing countries like India, most episodes are treated by Self Medication due to easy availability of non-prescription drugs & is becoming a routine practice nowadays especially by undergraduate medical students (8 - 13).

The present study revealed that 74% of students accepted Self Medication practices. However, the other similar type of studies have reported different figures ranging from 43.2 to 91 91% (8-16). The variation may be due to different demographic profile. The percentage of students confessed self medication vary amongst different years of students and found increasing from first year to final year as final year student is having more knowledge of medicine (9-16). Conversely, a study carried out in Maharashtra reported more prevalence in first year students (17). Also, the Self Medication practice was found more in female students as compared to male students which is in concordance with previous works (10,13,15-18), whereas few studies reported similar proportion in both sexes[8] and slightly higher in males as compared to females (11,16,19). In another study it was found that prevalence of self-medication was higher among educated class (20)as compared to uneducated class. Most common reason for self-medication is the people's belief that they can take good care of themselves.

The commonest illnesses that led to Self Medication in this study (headache, common cold, sore throat, fever & acidity) were also reported similarly in other studies(17,18,21-

23). Various researchers (21-23) revealed antipyretics as commonly used drugs for Self Medication which, is in agreement with the present study whereas, the study carried out in a tertiary care medical college of West Bengal reported antibiotics to be the most commonly used drugs (15).

Regarding the source of drug procurement the local chemists followed by pharmacy were the most common source which is similar to the results of previous studies (9-12,17). The reason being easy availability.

Most common reasons for Self Medication reported in our study were mild illness & is comparable with the findings in literature($\underline{11,13,15,17},21$), however other workers reported previous expertise($\underline{8}$ - $\underline{10,12}$), lack of time to consult doctor ($\underline{14,19}$), quick relief($\underline{18}$), and time saving (22) as common ailments.

The observations regarding reading leaflet information before taking medicine is in accordance with earlier studies (7,8,12,17,18,23).

Majority of the students irrespective of the year of the study reported that they were aware of adverse effects of medicines used by them which, are analogous with the findings of other workers (22,23). Findings related to adverse effects of medicines are in agreement with the studies conducted in Egypt and India (16,17), but differ from previous studies (11,19). A Good number of students agreed that medical knowledge is necessary for administration of medicine by self which, is in accordance with other studies (8,12).

CONCLUSION

Thus our study demonstrates that Self Medication is highly prevalent in first year medical students of SKIMS Medical college, bemina. Thus education of the youth to ensure safe practices is the need of the hour & measures be taken to discourage such practices. If action is not taken, the danger of interactions and adverse effects could increase. The need of hour is to sensitize the students regarding the irrational use of medicines in terms of self medication and will also guide in the designing various health education strategies which, are required to educate the students and the community in large. We also suggest that population should be made aware of the problems and dangers associated with it.

People should also be made aware of the responsible self-medication through proper education, advertisement (Print and electronic media).

More strict and stringent laws are needed to avoid the problems associated with self-medication. as well. Therefore the potential problems of self-medication should be emphasized to all the students' especially medical students.

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