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Original Research Article

Assessment of knowledge, attitude and practice of generic medicines among the interns and post graduate dental students: comparison with medical practitioners

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ABSTRACT

Background: India is one of the highest per capita out-of-pocket health expenditures (62%) country and use of generics can save a lot of money which can be used for other health issues. Lack of knowledge about cost effectiveness of generic medicines among the health-care professionals had led to a low rate of generic medicine prescription. The objective of this study was to explore the knowledge, attitude and practice of dental students towards the generic medicines.

Methods: A cross-sectional study was carried out using questions from pretested and validated questionnaire which are applicable to Indian scenario. A 22 items questionnaire were distributed to the participants to assess their knowledge, attitude and practice of generic medicine. All the Interns and MDS students were included in this study. The collected data was analyzed using microsoft excel.

Results: 63.4% participants agreed generics can be interchanged with a branded drug. 89.74% participants were aware that bioequivalence studies are conducted by generic manufacturers for all the marketed generic medicines. Mostly participants (78.04%) were of opinion that generic medicines do not produce greater side effects than branded drugs. 54.05% participants reported that they were prescribing generic medicines. 52.38% participants were aware that generic medicine contains the same active substances as that innovator and used at same dose to treat same disease.

Conclusions: In our study, we found that the prescribers had a considerable knowledge regarding the concept of generic medicines. However, to further increase the rate of generic medicine prescription training programs on generic medicines should be organized.

Keywords: Generic medicines, Dental practitioners, Knowledge assessment

INTRODUCTION

The increasing health-care expenditures remain a serious concern for the health-care system worldwide. In developing countries approximately 80% healthcare expenditure is paid from patients' pocket. As patient is bearing the cost of treatment themselves, it is necessary to keep health-care expenditure minimal without compromising the quality of care. One of the major

components of health-care expenditure is cost of the medicines.² The price of generic medicines is 10-80% lower than their branded equivalents. Hence, the usage of generic medicines can improve the access to health-care without conceding the quality.³

Generics medicines are alternatives for original (branded) medicines with the equivalent quality, safety and effectiveness. Prescribing generics in clinical practice can

significantly decrease the health-care expenditure. The government agencies and health-care payers can also be benefit by this.⁴ Given the limited existing resources in India, increasing utilization of generics can be helpful in providing quality health-care to the large population. This will improvise the affordability of the quality health-care facilities to population.⁵

In Indian set up, various initiatives have been taken by various stakeholders to increase adoption of generic prescribing in clinical practice. The Medical Council of India, made an amendment in 2018 in the code of conduct for doctors, recommending that every physician should prescribe drugs with generic names.⁵ The government of India, through the department of pharmaceuticals, started an initiative "Jan Aushadi". The aim of this program is to provide unbranded quality medicines available to poor people in country at a reasonable and affordable price. Until 2018, 3200 Jan Aushadi stores are operating in India but still these are not enough to meet requirements of the Indian population.⁶

Despite all the initiatives, generic prescribing is not very much adopted in Indian scenario. The market share of branded medicines is 90% of the Indian domestic pharmaceutical market which is approximately Rs. 1,00,000 crore and more. Despite of India being one of the major producers and exporter of generic medicines in world, it is reflected that enough generic name equivalents of branded medicines are not sold in Indian market. There have been various studies showing that perception of physician about generic medicines have been one of the major deterrents in adoption of generic prescribing. 9,10

Also, it has been reported that lack of awareness about regulatory standards used in generic manufacturing is also a barrier is adoption of generic prescribing. ¹¹ The lack of knowledge about generics emerges as one of the major barriers in generic prescribing. Based on reported literature, this study is designed to assess the awareness of dental practitioners about generic prescribing.

Aim

To assess the awareness among the interns and post graduate dental students about generic prescribing and compare the knowledge, attitude and practice with the medical practitioners in India.

METHODS

A cross-sectional study was carried out among interns and post graduate (MDS) dental students in December 2019. The study was conducted at Dasmesh Institute of Research and Dental Sciences, Faridkot, Punjab after taking permission from the Institutional Ethics Committee. The questionnaire consists of pre-validated and self-administered questions applicable to Indian

scenario. These questions were taken from published literature pertaining to Indian set up. 12-15 The questionnaire comprised of 22 items question related to knowledge, attitude and practice (KAP) of generic medicines and about demographics details of participants. The questionnaire contained ten questions assessing knowledge of generic medicine, five questions eliciting participants attitude towards generic medicine, six questions related to practice of generic medicines and one question capturing suggestions to improve generic prescribing in India. The responses were collected in dichotomous response (yes or no). Only one open ended question seeking suggestions to improve generic prescribing in India was there. The pilot testing of questionnaire was done randomly on ten interns of the institute.

The literature search was conducted to find the studies assessing awareness on generic drugs among medical practitioner in an Indian setting.

Data was compiled and analyzed using microsoft excel. The data from dental practitioners and medical practitioners was compared using the Med Calc statistical software. The responses from two studies were compared using Chi-squared test.

RESULTS

This study included 42 participants out of which 32 were interns and 10 were MDS students. The average age of participants is 23.14 years. Among participants 76% were females and 24% were males.

Knowledge

The knowledge related questions and frequency of response of the participants is shown in Table 1. It is evident from the table that 61.9% percent dentists agreed generics intended to interchanged with a branded drug. Only half of the participants were aware that generic medicines were marketed after the expiry of the patent period of the innovator drug and 52.4% dentists had knowledge that composition, dose and indications of generic medicines were same as the branded counterparts. Among the study participants 31% were aware that repetition of preclinical and clinical studies wasn't required for manufacturing generic medicines.

An 85.7% of the participants believed that generic medicines were important tool to reduce the overall health expenditure. An 71.4% of dentists were aware that drugs with generic names should be prescribed by every physician as stated in the Indian medical council act (professional conduct, etiquette and ethics) regulations, 2002. Only 23.8% participants told that they were aware regarding the Jan Aushadi scheme. But when they were asked to explain only 9.5% could explain it correctly and only 14.2% knew Jan Aushadi stores were located in nearby area.

Table 1: Knowledge-related questions and frequency (%) of responses.

Questions	Yes	No
Generic medicines intended to be interchangeable with a branded drug	61.9	35.7
Generic medicines only marketed after expiry of patent period of innovator drug	50	45.2
Composition, dose and indications of generic medicines are same as branded medicine	52.4	47.6
Preclinical and clinical studies are repeated for manufacture of generic drugs	64.3	31.0
To reduce overall health expenditure generic medicines are important tool	85.	14.3
Generic medicines manufacturers need to conduct bioequivalence studies	83.3	9.5
Indian medical council act (Professional conduct, etiquette and ethics) regulations, 2002 states that every physician should, as far as, possible, prescribe generic medicines	71.4	21.4
Brand name medicines produce lesser effect than generic medicines	21.4	76.4
Aware about the Jan Aushadi Yojana launched by government of India	23.8	73.8

Attitude

It is found that majority of dentists (76.2%) were of view that generic medicines do not produce greater side effects than branded drugs as shown in Table 2.

Table 2: Attitude related questions and frequency (%) of responses.

Questions	Yes	No
Generic are not as effective as brand-name	31	69
Brand-name drugs are made in modern manufacturing facilities, and generics are often made in substandard facilities	54.8	40.5
Generic drugs cost less because they are inferior to brand-name drugs	50	50
Quality testing of generics should be made more vigorous	76.2	14.3
Do you think there should be training program to increase the awareness regarding generic drugs	81	14.3

Further, 31% participants believe that the generics are not as effective as brand-name. Almost half of participants

(54.8%) believed that generic medicines were often made in substandard facilities as compared to brand name drugs. Another 50% participants did not agree that generic drugs cost less because they are inferior to brand name drugs. Three-quarter (76.2%) of the participants were of the view that quality testing of generic medicines should be made more vigorous. Majority participants (81%) agreed that there should be training program to increase the awareness regarding generic drugs among doctors and patients.

Practice

The practice related question and the responses of the participants are summarized in the Table 3. Almost half of the participants (47.6%) said that they prescribed generic medicines. Sixty-nine percent of the participants have not read any article on comparison of safety and efficacy of generic versus brand name medicines. A majority 45.2% of the doctors did not think that switching a patient from a brand name to generic medicines might change the outcome of therapy. Another 69% of the participants were not comfortable if pharmacist changed branded drugs prescribed by them. Almost half of participants (54.8%) supported substitution in all cases where generic is available.

Table 3: Practice related questions and frequency (%) of responses.

Questions	Yes	No
Pharmacists should be allowed to substitute the innovator drug with generic version	69	26.2
Do you prescribe generic medicines	47.6	40.5
Have you anytime read any article on comparison of safety and efficacy of generic versus branded medicines	21.4	69
Do you think that switching a patient from a brand name to generics may change the outcome of the therapy	50	45.2
Do you support substitution in all cases where generic is available	54.8	40.5

The top two considerations while prescribing a medicine to patients were economic profile of patient (85.7%) and efficacy and safety profile of drugs (83.3%). The availability of drugs in pharmacies is considered by 76.2% participants and 69% participants considered price of medicine. These two were next important determinants for choice of drug to be prescribed. Only 45.2% participants considered pressure from patients to prescribe low cost medicines. The participants suggested that awareness regarding generic prescribing should be increased through various workshops, seminars and continuing education programs. Also, participants suggested that laws should be drafted and enforced regarding prescribing of generic medicines.

Table 4: Comparison of significantly different responses of dental and medical practitioners.

Questions	Present study	Gupta et al 2015	Bhattacharjee et al 2017	Gupta et al 2018	Gawali et al 2018
Knowledge					
Generic medicines only marketed after expiry of patent period of innovator drug	50	57.5 (0.438)	20 (0.002)	56.2 (0.50)	
Composition, dose and indications of generic medicines are same as branded medicine	52.4	76.7 (0.007)	92.5 (<0.001)	89.9 (<0.001)	
Generic medicines manufacturers need to conduct bioequivalence studies	83.3	79.8 (0.325)	95 (0.016)	77.7 (0.46)	
Indian medical council act (professional conduct, etiquette and ethics) regulations, 2002 states that every physician should, as far as, possible, prescribe generic medicines	71.4	79.5 (0.325)	90 (0.003)	80.9 (0.22)	
Aware about the Jan Aushadi Yojana launched by government of India	23.8	45.2 (0.023)	100 (<0.001)	67.4 (<0.001)	45.2 (0.023)
Attitude					
Brand-name drugs are made in modern manufacturing facilities, and generics are often made in substandard facilities	40.5	58.9 (0.051)	60 (0.037)	64 (0.008)	
Generic drugs cost less because they are inferior to brand-name drugs	50	31.5 (0.050)	12.5 (<0.001)	41.1 (0.190)	
Quality testing of generics should be made more vigorous	76.2		92.5 (0.0048)	31.5 (0.050)	
Do you think there should be training program to increase the awareness regarding generic drugs	81	89.0 (0.2348)	95 (0.005)	89.0 (0.234)	55.8 (0.005)
Practice Pharmacists should be allowed to substitute the innovator drug with generic version	69		17.5 (<0.001)	11.2 (<0.001)	59.9 (0.2680)
Do you prescribe generic medicines	47.6	46 (0.061)	92.5 (<0.001)	86.5 (<0.001)	
Have you anytime read any article on comparison of safety and efficacy of generic versus branded medicines	21.4	38.4 (0.061)	27.5 (0.435)	65 (<0.001)	45.60 (0.003)
Do you think that switching a patient from a brand name to generics may change the outcome of the therapy	50	28.8 (0.023)	25 (0.002)	19.1 (<0.001)	
Do you support substitution in all cases where generic is available	54.8	31.5 (0.014)			

Data is represented as percentage (p value).

Comparison with medical practitioner

From literature four studies were identified which assess awareness on generic drugs among doctors in Indian set up. All the four studies have been conducted in recent years (2015-2018). Gupta et al conducted a study in 2015 and included 73 doctors working at the tertiary care hospital. Bhattacharjee et al conducted similar study in 2017 in tertiary teaching hospital among 120 doctors. Two studies conducted in 2018 included 89 medical practitioners from tertiary care hospital (15) and 217

prescribers comprising interns, residents and the teaching faculty from tertiary hospital. ¹⁶

It was observed that there were few items in the questionnaire in which there was no significant difference in the response of medical and dental practitioners. The Table 4 shows comparison of responses of dental and medical practitioners which were significantly different.

It was observed that the participants of Bhattacharjee et al study were significantly less aware than other about fact that generics medicines are marketed after expiry of patent period of innovator drug. 14 On contrary the dental practitioners were less aware as compared to medical practitioners that the composition, dose and indications of generic medicines are same as branded medicines. The knowledge of dental practitioners was almost same except one group regarding need to conduct bioequivalence studies for generic medicines and MCI regulation regarding prescribing generics. The dental practitioners were found to have least knowledge regarding the Jan Aushadi Yojana program launched by government of India.

The attitude of medical practitioner about generics was significantly negative as compared to dental practitioners for both the standards of manufacturing facility of generics as well as quality. Both the groups agreed that there should be training program to increase the awareness regarding generic drugs.

The dental practitioners (69%) were more supportive for statement whether pharmacist should be allowed to substitute branded drugs with generic version. In two studies almost 90% practitioners agreed that they prescribe generic medicines which was nearly double than the dental practitioners (47.6%). The medical practitioners have read article on comparison of safety and efficacy of generic versus branded medicines more than dental group.

Also, medical practitioners report that switching from branded to generic medicines leads to changes in outcome of therapy. Further, lesser medical practitioners were supporting the substitution in all cases.

DISCUSSION

To the knowledge of the author this is first study in India which assess KAP of generic medicines among dental prescribers. In India KAP of generic medicines among medical practitioners have been conducted and published. In dentistry drugs are prescribed for transient treatment or treatment particularly for surgical methods. According to a study, the worldwide market for Dental Drug is expected to grow at a CAGR of roughly 5.8% over the next five years, will reach 5720 million USD in 2024, from 4320 million USD in 2019. This is growing tremendously at the rate of 8%. Dental prescription market for particular

disorders, and the oral care market in prescription products is almost 550 crores INR. 18

All of this emphasizes that the dental practitioners are one of the major prescribers of drugs and should be updated regarding prescribing practices. It has been reported in various countries including Mexico that dental practitioners often make mistakes in prescription as don't have the best possible pharmacological learning. ¹⁹ This study is an attempt to compare the KAP regarding generic medicines among dental and medical practitioners.

Overall, the perception and understanding regarding generic prescribing remains similar in both dental and medical practitioners except for few points. The knowledge of dental practitioners was comparatively less as compared to medical practitioners in aspects such as knowledge about the composition, dose and indications of generic medicines, bioequivalence studies, MCI regulation for prescribing generics. The knowledge of dental practitioners about the Jan Aushadi stores was also limited. It can due to the set-up differences. The dentist usually works in specialty clinics and are not part of main stream hospitals.

Small sample size and limited to single institutional set up are the main limitations of this study. So, the findings of this study cannot be generalized. The studies using self-administered questionnaire, is largely dependent upon the information given by respondents. In spite of the fact that participants were motivated to fill the questionnaire autonomously, still like influences like recall bias and mutual influences could not be eliminated completely. We recommend such studies to be conducted in other parts of the country to know the knowledge and practices of prescription writing. We have only studied the doctor's perception and understanding regarding generic medicines. The perception and understanding of other health care professionals as well as patients also have critical role in adoption of generic prescribing.

The successful implementation of any policy or product is dependent on the confidence in efficacy, safety and quality of it. There have been various studies showing that perception of physician about the generic medicines have been one of the major barriers in adoption of generic prescribing. A nationwide survey in Malaysia showed that the physician has negative perception about the generic medicines such as 51.7% stated that generic medicines are less effective than reference. Further 74.2% of the physicians assumed that the manufacturing and the quality control standards of branded products are much higher than generic medicines. Another study conducted in Bosnia and Herzegovina reported similar results 60% respondents agreed that production of generics is in poorer conditions. 10

Another systematic review reported that perception of physician is dependent on the maturity of healthcare system. The physician in less mature healthcare system report large variations regarding control routines, bioequivalence requirement and manufacturer standards for generics.²¹ In Ireland, study was conducted after the health act 2013 legislated generic substitution. This study highlighted the concerns about the generic substitution in vulnerable patient groups including frail, the elderly, those on multiple medicines, with cognitive impairment and suffering from anxiety.²²

A study conducted in India, showed that the generic and branded were of comparable quality tested using various tests. On contrary to quality tests, negative perception of medicine quality along with other drivers contribute towards more expensive medicines. Trust in the health system merged as an underlying central theme that explained and drive choice of medicines and providers within the local health system.²³ Similarly, another study conducted in South Africa showed clear difference between perceptions of quality and actual quality of medicines suggesting deficiencies in initiatives by government to spread awareness about the generic medicines which is thus affecting implementation of the generic prescribing.²⁴

Drug advertisements by manufacturers also emerged as one of the factors influencing the prescribing/dispensing practices. A survey conducted in Ethiopia reported 39.9% physicians agreed/strongly agreed that drug advertisements and promotion by the manufacturers would influence their prescribing practice.²⁵

The limited knowledge among both dental and medical practitioners and the negative perceptions of physicians about generics is clearly a major road block for implementation of generic prescribing.

Future perspective

Currently, undergraduate medical and dental students learn the concept of generic drugs during their secondyear pharmacology teachings. In undergraduate and postgraduate training, there is lack of initiatives emphasizing the importance of generic drugs specifically in reducing patient expenses. The medical education curriculum would have to address this inadequacy to make sure that future practicing physicians and dentist are well conversant and comfortable in prescribing generic drugs.²⁶ The compulsory prescribing of generics holds no argument in it until the prescribers are certain about the quality of generic drugs. Only providing guidelines will not enhance quality generic drugs in market, central drugs standard control organization should ensure quality of generics with strict regulatory mandate of these guidelines.²⁶

CONCLUSION

In conclusion, information and education particularly in areas of bioequivalence, regulatory aspects and dispelling

myths, fears, doubts or false ideas about generic medicines is very important. This will build up the confidence and habit of generic prescribing into our medical and dental fraternity. We recommend such studies to be conducted in other parts of the country to know the knowledge and practices of prescription writing in dental practitioners. In that way, dental council of India can be strongly recommended to make necessary changes in the curriculum in order to benefit patients and overall public health.

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Institutional Ethics Committee

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