The view of recent medical graduates on ethical consideration of prescription writings in Bangladesh

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Abstract

Prescription writing reflects the competency as well as the quality of medical education of the physician. This study was done to evaluate opinion of recent medical graduates towards ethical aspects of prescription writing. This descriptive study was conducted on recent medical graduates of 7 medical colleges in Bangladesh from January’18-June’19. Data were collected by a pretested self administered semi-structured questionnaire. Only descriptive statistics were computed by collected data. The study included 308 recent medical graduates having average age at commencement of internship was 24.2 years with male predominant (53.2%). Majority of the respondents thought that prescription should be written in block letter or be printed (70.1%) and there was possibility for selling wrong medicine due to bad handwriting (77.6%). Majority of the recent medical graduates thought that generic names were not difficult to remember (82.8%), there was every possibility of selling poor quality drugs of the same generic names by the pharmacists (87.7%) and physicians should not use generic name in prescriptions (56.5%). Furthermore, most of them (92%) felt a need for a mandatory educational qualification for the pharmacists. Most participants opined that pharmacists should have a minimum educational qualification to prevent the errors in dispensing. The findings of this study might be helpful to reinforcement the law to avoid the errors related to medical professionalism and ethical aspects of prescription writing in the medical education.

Key words: Recent medical graduates, Prescription writing, Educational qualification of pharmacists.

Introduction

The physicians have to write prescriptions as an important duty towards patients. It is a written order to patients. The quality of medical education can be measured by prescriptions. ¹ ² Prescription writing reflects the competency of the physician.³ The recent medical graduates are practicing future physicians and also they are the stakeholders. This study was done to evaluate opinion of recent medical graduates towards some contemporary issues of prescription writing in the light of medical ethics and professionalism. Their practice depends on their attitude towards prescription writing.

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The errors in prescriptions are mainly human error and occur during prescription writing. One of the solutions of these problems is to write the generic name of drug in block letters. However, the physicians are still practicing brand names instead of generic names in the prescriptions worldwide. In Andhra Pradesh, none of the prescription was written in block letters among 180 prescriptions. Bangladesh has same picture, despite the direction of High Court for block lettered or printed prescription. Another important issue is using generic name in prescriptions. World Health Organization always wants to have generic name in prescriptions. There may be a chance selling poor-quality drugs in developing countries like Bangladesh. There are two ways of poor-quality drugs such as substandard and counterfeit medicines. Substandard products are dispensed as a result of lack of skill, poor industrialized practices, or insufficient communications, and counterfeits are the results of criminal activities.

The current study also discussed about the different aspects of using generic name. Evaluation of recent medical graduates’ views towards prescription writing would play an important role to take necessary actions needed.

**Materials and Methods**

This descriptive cross sectional study was conducted with the objective to evaluate the opinion of recent medical graduates in 7 medical colleges in Bangladesh. The data were collected from January 2018 to June 2019. The total sample size was 308. Convenience sampling technique was adopted to collect the data. A self-administered semi-structured questionnaire was used for collecting. The collected data were processed and analyzed by SPSS (version 20). Only descriptive statistics were computed.

Grades was 24.2±1.1 years, and 53.2% were male (Figure 1).

![Figure 1: Gender of recent medical graduates](image)

The study included recent medical graduates from Armed Forces Medical College (15.3%), Dhaka Medical College (18.8%), Bangladesh Medical College (14.0%), Green Life Medical College (11.0%), Chittagong Medical College (15.3%).
(11.7%), Md. Abdur Rahim Medical College (14.6%) (Table 1).

Table 1: Name of medical colleges of recent medical graduates

<table>
<thead>
<tr>
<th>Name of medical colleges</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangladesh Medical College</td>
<td>43</td>
<td>14</td>
</tr>
<tr>
<td>Chittagong Medical College</td>
<td>47</td>
<td>15.3</td>
</tr>
<tr>
<td>Armed Forces Medical College</td>
<td>34</td>
<td>11.0</td>
</tr>
<tr>
<td>Dhaka Medical College</td>
<td>58</td>
<td>18.8</td>
</tr>
<tr>
<td>Green Life Medical College</td>
<td>36</td>
<td>11.7</td>
</tr>
<tr>
<td>Khaja Yunus Ali Medical College</td>
<td>45</td>
<td>14.6</td>
</tr>
<tr>
<td>Md. Abdur Rahim Medical College</td>
<td>45</td>
<td>14.6</td>
</tr>
<tr>
<td>Total</td>
<td>308</td>
<td>100</td>
</tr>
</tbody>
</table>

More than two-third of the recent medical graduates (70.1%) opined that prescription should be written in block letter or be printed. More than one-quarter of them (77.6%) thought that there was a possibility for selling wrong medicine due to bad handwriting (Figure 2).

![Figure 2: Opinion of recent medical graduates regarding prescription writing](image)

Majority of the recent medical graduates (56.5%) thought that physicians should not use generic name in prescriptions. However, majority of them (82.8%) opined that generic names were not difficult to remember. Again, according to most of them (87.7%), there was every possibility of selling poor quality drugs of...
the same generic names by the pharmacists (Figure 3).

Figure 3: Opinion of recent medical graduates regarding using generic names

Most of them (91.9%) opined that pharmacist should have a mandatory minimum educational qualification (Figure 4).

Discussions
The current study included recent medical graduates who were freshly passed and just enter into professional life. The respondents included in this study from seven medical colleges in Bangladesh. The mean age of recent medical graduates was 24.2 years, with SD 1.1; and the male were more (53.2%).

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Majority of the recent medical graduates (70.1%) of this study opined in favour of block lettered or printed prescription. The experts suggested for intervention in medical education and training in prescription writing. Similar worry was expressed in Indian newspaper as the recent medical graduates of this study (77.6%) that there was a chance of selling wrong medicine due to bad handwriting.

Another issue to emphasize is to use generic name in prescriptions. Majority of the recent medical graduates (82.8%) thought that generic names were not difficult to remember and 87.7% thought that there was a possibility of selling poor quality drugs of the same generic names by the pharmacists. It was evident that the pharmacists had a tendency to dispense the product which would earn the highest profit irrespective of the quality of the product. Majority of the recent medical graduates (56.5%) were disagreed with the use of generic name in prescriptions in this study. In another study in India 78.2% of medical students opined that generic name should be used while prescribing, though; half of them practiced generic names (56.3%). Again, all 121 interns used brand names in their prescriptions.

Almost all respondents (91.9%) in the current study thought pharmacist should have a mandatory minimum educational qualification. In 2014, Lebanon implemented mandatory continuing education (CE) for pharmacists. So, for preventing selling of wrong medicine due to bad handwriting would be minimized. The recent medical graduates did not interested in using generic names in their prescriptions. As well as they marked it essential to have a mandatory educational qualification for the pharmacists to minimize the errors.

Conclusion
The recent medical graduates felt a need for block lettered or printed prescription. So, the possibility of selling wrong medicine due to bad handwriting would be minimized. The recent medical graduates did not interested in using generic names in their prescriptions. As well as they marked it essential to have a mandatory educational qualification for the pharmacists to minimize the errors.

Acknowledgement
I wish to extend sincere thanks to the respected participants.

Ethical
Permission was taken from academic council of Bangladesh University of Professionals (BUP), Ethical Review Committee (ERC) of the selected medical colleges and from the recent medical graduates.
Reference list