A Progressive Assessment of Pharmacy Undergraduates’ Motivation and Satisfaction towards Pharmacy as a Professional Choice

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Abstract
Objectives: The study is aimed to access the motivation, satisfaction and expectations of Pharm.D undergraduate towards pharmacy as a profession while attending a public university of Quetta city, Pakistan.
Methods: This was a questionnaire based, cross-sectional analysis. The research was carried out at Faculty of Pharmacy and Health Sciences, University of Balochistan Quetta, Pakistan. All students registered in Pharm.D program (other than first professional year) were approached for data collection. Based on the objectives of the study, descriptive analysis was performed to present the frequency and percentage demographic characteristics and other study variables. Results: Out of 620 enrolled students, 475 respondents were involved in the survey with a response rate of 76.6%. Nearly 43% selected pharmacy as their first choice career whereas 60% of the students selected pharmacy based on the recommendations of their parents, friends and family. Working with patients and in the medical field was the biggest influencers for the pharmacy undergraduates as ≤ 90% of the students agreed to this statement. Additionally, job with a good career opportunity was also ranked as a influencer by the respondents (85%). Majority of the students (≥ 80%) were committed to the profession’s ideology and were content studying pharmacy. Sixty percent disagreed that they will change their profession if a chance is provided and 81% stated to continue their career as a pharmacist. Conclusion: Impact of family and friends, looking for an in-demand job with good career opportunities, and the desire to work in a health-related field were the main influencing factors in pharmacy students’ decision to study pharmacy. It is obvious from the findings that there is a need to guide high school students regarding their choice of undergraduate programs, and for these students to be made aware of the challenges and opportunities of studying pharmacy.
Key words: Progressive assessment, Pharmacy undergraduates, Motivation, Satisfaction, Pharmacy.

INTRODUCTION
Nearly all students have their own, distinctly unique, motivations and expectations about their professional career. Unquestionably, such motivations and expectations are driven through different factors. Where motivation is the biological, social, and psychological state that drives a person towards specific action, expectation is a strong belief that something will happen or be the case. In line to what is being discussed; students’ satisfaction and expectation has always been a major concern for universities as it plays a vital role in determining student success and retention thus building their national economies. Therefore, higher educational institutes continuously implement quality assurance programs to evaluate their students’ satisfaction and expectation claiming that it has a major impact on student performance. Many universities prefer a clear accountability process for upgrading the facilities provided to students, faculty and staff for this purpose satisfaction and expectations remain the preceding component.

Within this context, few studies have measured the inspirational drivers at different preregistration stages which affect choosing pharmacy as a profession. Likewise first year undergraduate students motivation was assessed by Rees in several pharmacy schools. Ferguson et al. (1986) evaluated motivation and influences of 315 first year pharmacy students in three different schools, in Australia, Canada and the United States. All these studies investigated motivational factors and recommended to investigate students’ perception and knowledge of pharmacy students at the time of admission. Logical and professional counseling for pre-pharmacy students concerning the pharmaceutical career and the possible employment opportunities would lead students toward determining their career of interest, as well as helping them to map their future career plan. Furthermore, Elliott and Healy concluded that satisfaction can only be attained if student’s conduct and real experiences met or surpassed their expectancy. Opting pharmacy as an academic course is a difficult task due to greater educational burden. Therefore, students joining a pharmacy program should be clear about its prerequisites, challenges and opportunities for its successful completion.

Shifting our concerns to pharmacy education in Pakistan, a three year pharmacy degree program was offered by University of Punjab, Lahore in 1948 which was then extended to four year Bachelors of Pharmacy program (B.Pharm) in 1978-1979. In the vague to meet international standards, Higher Education Commission (HEC) of Pakistan reformed the pharmacy curriculum, established faculties and upgraded the four years B.Pharm program to five years Doctor of Pharmacy (Pharm.D). Parallel to compensate this one year gap, a condensed/crash Pharm.D course was offered to the B.Pharm graduates that awarded them with a certificate equivalent to Pharm.D. Today a 5 year Doctor of Pharmacy (Pharm.D) is offered by the pharmacy schools of the country. Pharmacy is one of the globally accepted...
reputable professions and has experienced enormous progress over the years.\textsuperscript{[15]} Due to the rising need of its graduates; it is one of the most desirable specialties in Pakistan. However, the predictors and factors that urge students to opt for pharmacy profession as a career in Pakistan are least discussed in literature. We have to remember that exploring student’s satisfaction and motivation while considering pharmacy as a career is highly important as this lays the foundation for future success and graduation. Therefore, students’ evaluations of the social and academic aspects of the institutes can provide the policymakers important insights into the students’ overall experiences and expectations while electing pharmacy as a professional career. Also it is believed that understanding of the motivation and expectations of pharmacy undergraduates will provide a foundation for further research on student aspirations and perceptions while selecting pharmacy as a profession. Therefore, the current study is aimed to access the motivation, satisfaction and expectations of Pharm-D undergraduate towards pharmacy as a profession while attending a public university of Quetta city, Pakistan.

METHODS

Study design and settings: This was a questionnaire based, cross-sectional analysis. The research was carried out at Faculty of Pharmacy and Health Sciences, University of Balochistan Quetta, Pakistan. Pharmacy program was introduced in 1980 and being the pioneer institute of pharmacy in the province offers huge attraction to the promising undergraduates from all over the province.

Study population, sampling, inclusion and exclusion criteria

By employing an availability sampling approach, all students registered in Pharm.D program (other than first professional year) at Faculty of Pharmacy and Health Sciences were approached for data collection. Students registered in other study disciplines and those not willing to participate were excluded from the study.

Study tool (development, reliability and validity)

The research tool was constructed by the research team through extensive literature review. For this purpose, part of the statements of the tool was developed by the study frame work of King (2013) and Wilson et al. 2006.\textsuperscript{[15,16]} The tool was validated for face and content validity by experts at Faculty of Pharmacy and Health Sciences, University of Balochistan, Quetta. Later, the tool was subjected to pilot study with ten (10) undergraduates and little modification was needed. The tool was rated as reliable with an alpha value of 0.78.\textsuperscript{[13]} Data from the pilot study was not included in the main study.

Data collection and ethical considerations

The first author was involved in data collection. The study’s purpose as well as addressing confidentiality matters, where no disclosure of personal data was assured to the respondents. Institutional Ethical Committee of Faculty of Pharmacy and Health Sciences, University of Balochistan approved the study protocol. Written consent was also taken from the respondent.

Data coding and statistical analysis

The data was coded and transferred to Statistical Package for Social Science v 21.0. Based on the objectives of the study, descriptive analysis was performed to present the frequency and percentage demographic characteristics and other study variables.

RESULTS

Demographic characteristics of the study respondents

The demographics are illustrated in Table 1. Out of 620 enrolled students, 475 respondents were involved in the survey with a response rate of 76.6%. Majority (337, 70.9%) were in the age range of 21-23 year. Males dominated the cohort (330, 69.4%) and the distribution of students in third and fourth professional year was almost equal (≤ 27%). Three hundred and eighteen (66.9%) had urban residencies and only 42.3% opted the profession of Pharmacy as their first choice.

Description of educational influencers while opting pharmacy as a career

The educational influencers that effected on the selection of pharmacy as a career are presented in Table 2. Almost 60% of the respondents reported that they chose pharmacy as a career based on the information available from the university prospectus. Followed by the prospectus, visit to a conference / career fair was the other influencer whereby almost 45% either strongly agreed or agreed to the statement.

Description of social influencers while opting pharmacy as a career

Social influencers for selecting pharmacy as a career are presented in Table 3. Fifty-eight percent of the pharmacy undergraduates chose pharmacy as a career based upon the recommendations of their parents followed by the suggestions of their family members (50.0%).

| Table 1: Demographic characteristics of the study respondents. |
|-----------------|-----------------|-----------------|
| Characteristics | Frequency | Percentage |
| Age (21.97±1.53) |  |
| 18-20 | 74 | 15.5 |
| 21-23 | 337 | 70.9 |
| 24-26 | 64 | 13.4 |
| Gender |  |
| Male | 330 | 69.4 |
| Female | 145 | 30.5 |
| Marital status |  |
| Unmarried | 460 | 96.8 |
| Married | 15 | 3.2 |
| Ethnic group |  |
| Pathan | 150 | 31.5 |
| Baloch | 212 | 44.6 |
| Punjabi | 69 | 14.5 |
| Sindhi | 10 | 2.10 |
| Other | 34 | 7.15 |
| Year of study |  |
| 2nd year | 112 | 23.5 |
| 3rd year | 126 | 26.5 |
| 4th year | 127 | 26.7 |
| 5th year | 110 | 23.1 |
| Locality |  |
| Rural | 157 | 33.1 |
| Urban | 318 | 66.9 |
| Academic session |  |
| Morning | 262 | 55.1 |
| Evening | 213 | 44.8 |
| Pharmacy as a first-choice carrier |  |
| Yes | 201 | 42.3 |
| No | 274 | 57.6 |
Description of personal influencers while opting pharmacy as a career

Working with patients and in the medical field was the biggest influencers for the pharmacy undergraduates as ≤ 90% of the students agreed to this statement. Additionally, job with a good career opportunity was also ranked as an influencer by the respondents (85%). Almost 80% of the pharmacy undergraduates reported their interest in science and science-based subjects as a major influence of selecting pharmacy as a career. The other influencers for choosing pharmacy as a career as presented in Table 4.

Satisfaction towards pharmacy as a career

The satisfaction towards pharmacy is presented in Table 5. Majority of the students (≤ 80%) were committed to the profession’s ideology and were content studying pharmacy. Sixty percent disagreed that they will change their profession if a chance is provided and 81% stated to continue their career as a pharmacist. Pharmacy was seen as an ideal profession by 65% of the respondents 45% had no regrets in selecting pharmacy as a carrier while 24% remained neutral to this statement.

DISCUSSION

Student motivation has been given low consideration in pharmaceutical education and curricular reforms are not geared towards enhancing student motivation. Studying motivation through an approach giving importance to both the quality and quantity of motivation is recommended. Intrinsic motivation (learning for the sake of learning) leads to better learning and performance as compared with extrinsic motivation (learning for reward), and can be enhanced by providing students with autonomy in learning, feedback on their performance, and emotional support.[18] Therefore, the current study was aimed to access the motivation and satisfaction levels of undergraduate Pharm.D students towards pharmacy as a profession visiting a public university of Quetta city, Pakistan.

More than half of the respondents reported that pharmacy was not their first choice. It is obvious that students do prefer opting for medical sciences and always place pharmaceutical sciences as an alternative. Our findings are supported when compared with studies of the same nature.[19-21] A possible reason is the poor awareness and acceptability of the pharmacy profession in the societies.[16,22] Although the profession of pharmacy have come a long way, there is substantial distance to cover before the profession is accepted by the societies when compared to medical sciences.

While discussing satisfaction, majority of the students (≤ 80%) were satisfied while studying pharmacy. Sixty percent disagreed that they will change their profession if a chance is provided and 81% stated to continue their career as a pharmacist. Within this context, Shen and colleagues have described complex factors that shape students’ satisfaction and perception of career.[23] This is also relatable to the current scenario as pharmacy profession had reshaped in the last 10 years in Balochistan. There are opportunities in the community pharmacy sector, the acceptability of the pharmacist at the practicing sites is increasing and added understanding of the pharmaceutical industry. Furthermore, with the development of the service structure, the future of pharmacy profession is well established and that is related to the satisfaction of the students. Nevertheless, this is based on our personal experience and

### Table 2: Description of educational influencers when opting pharmacy as a carrier.

<table>
<thead>
<tr>
<th>Influencers</th>
<th>SA (%)</th>
<th>A (%)</th>
<th>N (%)</th>
<th>DA (%)</th>
<th>SDA (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A subject teacher at school or college</td>
<td>40 (8.4)</td>
<td>123 (25.9)</td>
<td>110 (23.2)</td>
<td>167 (35.2)</td>
<td>35 (7.4)</td>
</tr>
<tr>
<td>A career’s teacher at school</td>
<td>48 (9.7)</td>
<td>156 (32.8)</td>
<td>99 (20.8)</td>
<td>141 (29.7)</td>
<td>33 (6.9)</td>
</tr>
<tr>
<td>A visit to a career’s fair and conference</td>
<td>55 (11.6)</td>
<td>158 (33.3)</td>
<td>119 (25.1)</td>
<td>126 (26.5)</td>
<td>17 (3.6)</td>
</tr>
<tr>
<td>A university prospectus</td>
<td>74 (15.6)</td>
<td>220 (46.3)</td>
<td>90 (18.9)</td>
<td>61 (12.58)</td>
<td>30 (6.3)</td>
</tr>
<tr>
<td>Mass and social media</td>
<td>26 (5.5)</td>
<td>92 (19.4)</td>
<td>112 (23.6)</td>
<td>165 (34.7)</td>
<td>80 (16.8)</td>
</tr>
</tbody>
</table>

**SA=strongly agree, A=agree, N=neutral, DA=Disagree, SDA=Strongly Disagree**

### Table 3: Description of social influencers when opting pharmacy as a carrier.

<table>
<thead>
<tr>
<th>Influencers</th>
<th>SA (%)</th>
<th>A (%)</th>
<th>N (%)</th>
<th>DA (%)</th>
<th>SDA (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>My parents encouraged me to choose pharmacy</td>
<td>125 (26.3)</td>
<td>151 (31.8)</td>
<td>54 (11.4)</td>
<td>110 (23.2)</td>
<td>35 (7.4)</td>
</tr>
<tr>
<td>My family encouraged me to choose pharmacy</td>
<td>85 (17.9)</td>
<td>163 (32.2)</td>
<td>64 (13.5)</td>
<td>125 (26.3)</td>
<td>48 (10.01)</td>
</tr>
<tr>
<td>Someone in my family who owns a pharmacy influenced me</td>
<td>75 (15.8)</td>
<td>115 (24.2)</td>
<td>44 (9.3)</td>
<td>175 (36.8)</td>
<td>66 (13.9)</td>
</tr>
<tr>
<td>My friends/social circle influenced me</td>
<td>76 (16.0)</td>
<td>115 (24.2)</td>
<td>63 (13.3)</td>
<td>163 (34.3)</td>
<td>58 (12.2)</td>
</tr>
</tbody>
</table>

**SA=strongly agree, A=agree, N=neutral, DA=Disagree, SDA=Strongly Disagree**

### Table 4: Description of personal influencers when opting pharmacy as a career.

<table>
<thead>
<tr>
<th>Influencers</th>
<th>SA (%)</th>
<th>A (%)</th>
<th>N (%)</th>
<th>DA (%)</th>
<th>SDA (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I liked science was good at science at school</td>
<td>206 (43.4)</td>
<td>236 (49.7)</td>
<td>16 (3.4)</td>
<td>13 (2.7)</td>
<td>4 (0.8)</td>
</tr>
<tr>
<td>I liked science-based course</td>
<td>222 (46.7)</td>
<td>195 (41.1)</td>
<td>30 (6.3)</td>
<td>18 (3.8)</td>
<td>10 (2.1)</td>
</tr>
<tr>
<td>I wanted to take a science-based course as a career</td>
<td>290 (61.1)</td>
<td>150 (31.6)</td>
<td>15 (3.2)</td>
<td>12 (2.5)</td>
<td>8 (1.7)</td>
</tr>
<tr>
<td>I wanted a job with good career opportunities</td>
<td>282 (59.4)</td>
<td>469 (35.6)</td>
<td>10 (2.1)</td>
<td>6 (1.3)</td>
<td>8 (1.7)</td>
</tr>
<tr>
<td>I wanted to work with patients</td>
<td>217 (45.7)</td>
<td>162 (34.1)</td>
<td>66 (13.9)</td>
<td>23 (4.8)</td>
<td>7 (1.5)</td>
</tr>
<tr>
<td>I wanted to own my personal business</td>
<td>157 (33.1)</td>
<td>126 (26.5)</td>
<td>95 (20.0)</td>
<td>78 (16.4)</td>
<td>19 (4.0)</td>
</tr>
<tr>
<td>I was attracted by the financial rewards</td>
<td>99 (20.8)</td>
<td>127 (26.7)</td>
<td>129 (27.2)</td>
<td>92 (19.4)</td>
<td>28 (5.9)</td>
</tr>
<tr>
<td>I wanted flexible working hours</td>
<td>133 (28.0)</td>
<td>181 (38.1)</td>
<td>92 (19.4)</td>
<td>56 (11.8)</td>
<td>13 (2.7)</td>
</tr>
<tr>
<td>I wanted to work with medicine/in the medical profession</td>
<td>289 (60.8)</td>
<td>139 (29.3)</td>
<td>20 (4.2)</td>
<td>19 (4.0)</td>
<td>8 (1.7)</td>
</tr>
<tr>
<td>I wanted to study medicine/dentistry or another medically related subject</td>
<td>250 (52.6)</td>
<td>161 (33.9)</td>
<td>32 (6.7)</td>
<td>20 (4.2)</td>
<td>12 (2.5)</td>
</tr>
</tbody>
</table>

**SA=strongly agree, A=agree, N=neutral, DA=Disagree, SDA=Strongly Disagree**
Unexpected growth in medication use has escalated demand for pharmacists and has outpaced supply. As we all already aware of, pharmacy is a demanding profession where the graduates can always get a job. According to our findings, majority of the respondents answer that the job availability factor is a very important factor in choosing pharmacy as their lifelong career. Our findings are supported and similar to a research done by Hassell. Youth of the age range 18-22 normally starts to plan for their future and instinctively they will sure consider profession where they can always get a job after they graduated to ensure a comfortable life.

Also, majority of our respondents wanted to work in a well-respected profession. Both male and female students classified to work in a well-respected profession of their importance. In today’s world, everyone wants to work in respected profession regardless of gender, ethnicity and age group. However, based on the findings of the research, there are females applying for pharmacy compared to males because woman has limited options for a professional career unlike men who also have many opportunities in specializing (like engineering) which skews towards man. These findings are consistent to a study conducted by the Aston University which states that there were more female applicants to pharmacy compared to men according to the data shown from 1998 to 2002. This is because females opt for a job which is socially useful and has a flexible schedule. In another study conducted by the School of Pharmacy of Samford University, more female students (mean response=4.54) compared to male students (mean response = 4.12) said that a flexible work schedule is important. A flexible schedule is possibly one of the reasons why pharmacy is more preferred by woman as an ideal profession for a career in life. It may be because female students need to think of their future when they have families. Having a flexible schedule helps them in fulfilling their role as caretakers for their family. Not only that, Savage et.al also had findings which stated that benefit packages may be a valid reason why more female students compared to male students agreed that pharmacy is an ideal profession for a career in life. It is possibly because of the difference in future aspirations and different levels of maturity among the students.

In our study, most of the students chose pharmacy as their career because they thought that being a pharmacist is an important part of who they want to be. They were generally positive about pharmacy as a future career and satisfied with their decision to choose it as a subject to study and as a career. The authors acknowledge the students for their participation in the study.

As a student, apprentices are often faced with decision making issues especially when it comes to career selection. Choosing a career is influenced by many factors and the most important is the influence of teachers on students when choosing as a career. On the other hand, the data at EAFP Conference in Estonia revealed that approximately 12% of first year pharmacy students found no importance of teachers’ influence. However, this finding is of no value for the current study because first year students were not included in the current study and hence the comparison is unjustified.

In Fiji, Japan, students of different ethnicity also received career advices from their teachers. Male and female ethnic-Fijian students with respective percentages of 49% and 50.6% had a higher percentage of influence by teachers compared to male and female Indo-Fijian students with respective percentages of 32.1% and 42.8%. This may be due to the lack of educational opportunities and crucial poverty happening among some of the Indo-Fijian community. Hence, leading to less Indo-Fijian students able to attend school and affecting the percentage of students influenced by teachers. The data in our research is opposite to what was conducted in Fiji as ethnic group had no association as a social influencer while selecting pharmacy. Despite having a steady divergence among the two studies, data, reasons and evidences of this difference is not reported in literature and can be attributed to students’ perception and attitudes. Other possible reasons could be the teachers’ passion, commitment and perhaps management or vice versa.

We do agree that a thorough investigation is needed to highlight the factors that lead to the satisfaction of the pharmacy undergraduates.

In today’s world, everyone wants to work in respected profession regardless of gender, ethnicity and age group. However, based on the findings of the research, there are females applying for pharmacy compared to males because woman has limited options for a professional career unlike men who also have many opportunities in specializing (like engineering) which skews towards man. These findings are consistent to a study conducted by the Aston University which states that there were more female applicants to pharmacy compared to men according to the data shown from 1998 to 2002. This is because females opt for a job which is socially useful and has a flexible schedule. In another study conducted by the School of Pharmacy of Samford University, more female students (mean response=4.54) compared to male students (mean response = 4.12) said that a flexible work schedule is important. A flexible schedule is possibly one of the reasons why pharmacy is more preferred by woman as an ideal profession for a career in life. It may be because female students need to think of their future when they have families. Having a flexible schedule helps them in fulfilling their role as caretakers for their family. Not only that, Savage et.al also had findings which stated that benefit packages may be a valid reason why more female students compared to male students agreed that pharmacy is an ideal profession for a career in life. It is possibly because of the difference in future aspirations and different levels of maturity among the students.

In our study, most of the students chose pharmacy as their career because they thought that being a pharmacist is an important part of who they want to be. They were generally positive about pharmacy as a future career and satisfied with their decision to choose it as a subject to study and as a career. The authors acknowledge the students for their participation in the study.

CONCLUSION

Despite some of the limitations faced, the results do have important implications. Impact of family and friends, looking for an in-demand job with good career opportunities, and the desire to work in a health-related field were the main influencing factors in pharmacy students’ decision to study pharmacy. It is obvious from the findings that there is a need to guide high school students regarding their choice of undergraduate programs, and for these students to be made aware of the challenges and opportunities of studying pharmacy.

ACKNOWLEDGEMENT

The authors acknowledge the students for their participation in the study.

### Table 5: Satisfaction towards pharmacy as a career.

<table>
<thead>
<tr>
<th>Influencers</th>
<th>SA (%)</th>
<th>A (%)</th>
<th>N (%)</th>
<th>DA (%)</th>
<th>SDA (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I am proud to tell others that I am studying pharmacy</td>
<td>250 (52.6)</td>
<td>151 (31.8)</td>
<td>41 (8.6)</td>
<td>11 (2.3)</td>
<td>22 (4.4)</td>
</tr>
<tr>
<td>I am strongly committed to the values and ideals of the pharmacy profession</td>
<td>209 (44.0)</td>
<td>184 (38.7)</td>
<td>47 (9.9)</td>
<td>22 (4.6)</td>
<td>13 (2.7)</td>
</tr>
<tr>
<td>Being a pharmacist is an important part of who I want to be</td>
<td>218 (45.9)</td>
<td>165 (34.7)</td>
<td>56 (11.8)</td>
<td>24 (5.1)</td>
<td>12 (2.5)</td>
</tr>
<tr>
<td>If I could pick a different occupation which paid the same amount, I would probably change degree</td>
<td>57 (12.0)</td>
<td>61 (12.8)</td>
<td>74 (15.6)</td>
<td>216 (45.5)</td>
<td>67 (14.1)</td>
</tr>
<tr>
<td>I want a career in pharmacy</td>
<td>251 (52.6)</td>
<td>150 (31.6)</td>
<td>55 (11.6)</td>
<td>6 (1.3)</td>
<td>13 (2.7)</td>
</tr>
<tr>
<td>If I could do it all over again, I would choose to study for the same profession</td>
<td>118 (24.6)</td>
<td>134 (28.2)</td>
<td>94 (19.8)</td>
<td>84 (17.7)</td>
<td>45 (9.5)</td>
</tr>
<tr>
<td>Pharmacy is the ideal profession for a career for life</td>
<td>166 (34.9)</td>
<td>150 (31.6)</td>
<td>96 (20.2)</td>
<td>44 (9.3)</td>
<td>19 (4.0)</td>
</tr>
<tr>
<td>I regret that I entered pharmacy school</td>
<td>67 (14.1)</td>
<td>92 (19.4)</td>
<td>114 (24.0)</td>
<td>143 (30.1)</td>
<td>59 (12.4)</td>
</tr>
<tr>
<td>I intend to take a second degree after completing pharmacy</td>
<td>115 (24.2)</td>
<td>142 (29.9)</td>
<td>89 (18.7)</td>
<td>84 (17.7)</td>
<td>45 (9.5)</td>
</tr>
</tbody>
</table>

SA=strongly agree, A=agree, N=neutral, DA=Disagree, SDA=Strongly Disagree
Limitations

A major limitation was the response rate and that may be a reason why problems were faced during data tabulation. Also, being a single centered study, comparison and contrast with a huge data set was not possible. Perhaps a generalized research involving more pharmacy schools can give a better picture. Involving other universities and institutions will also increase the sample size which allows a more accurate result to be produced as a larger sample size reduces sampling errors.

CONFLICT OF INTEREST

The authors have no conflict of interest to disclose.

REFERENCES