INTRODUCTION

Eight years have passed since the recommendation for the annual influenza vaccine. In the 2018-19 season, the Centers for Disease Control and Prevention (CDC) has continued to highlight the importance of vaccination, especially for all children older than six months and women who are pregnant (or planning to be) during the influenza season. These two populations are considered to be at high risk for severe influenza complications. In our daily communication with the public, we still notice a lack of full knowledge and understanding of adverse drug events, and fear of teratogenicity (birth defect). On the other hand, sometimes knowing these facts (knowledge) does not guarantee an attitude (what they tend to do). One study showed that around 40% of pharmacy students believed that immunisation in general is not mandatory and should be a personal choice. A cross-sectional study in postpartum women revealed that 80% thought that the vaccine was teratogenic in another survey revealed severe deficiency of knowledge amongst health workers caring for women and neonates. A Saudi study found low uptake of influenza vaccine during pregnancy. Examining Pharm. D students’ awareness of influenza vaccine safety before targeting the public may be of special priority. There is no published study focusing on this question.

The aim of this study is to investigate whether Pharm. D students have knowledge of the safe use of the influenza vaccine injection in children over six months of age and in pregnant women, and to examine their attitude, assuming it is safe, in terms of whether they would feel comfortable recommending the vaccine.

MATERIALS AND METHODS

This study was conducted at the college of pharmacy of Princess Nourah bint Abdul Rahman University PNU, a female-only university located in Riyadh, Saudi Arabia. The total number of students enrolled in the college of pharmacy is 703. The sample of students was randomly selected from the pharmacy college building due to easy access and the time frame available. Although this selection method may introduce bias, it is assumed to be accurate due to the homogeneity of the population (same college at the same time). Fifty-five female Pharm. D students were asked about their knowledge of the safety of the influenza vaccine injection in pregnancy and in children, and then their attitude, assuming it is safe, if they are going to recommend vaccination. Data were collected during the period 24 to 25 September 2018. Students’ responses were recorded as “yes” or “no”. The data were analysed using SPSS version 24 (SPSS Inc., Chicago, IL, USA) for descriptive and analytical statistics. Cronbach's alpha of 0.743 was confirmed for the validity of the test items.

ETHICS APPROVAL

For this study all procedures were in accordance with the ethical standards of the Scientific Research Ethics Committee for Saudi Universities and with the 1964 Helsinki declaration and its later amendment.

RESULT AND DISCUSSION

Students’ responses from the sample (n = 55) are summarised in figure 1 for clear illustration. For the knowledge questions, 56% (31/55) of the sample agreed that it is safe for the influenza vaccine injection to be given to pregnant women, and 71% (39/55) to children > 6 months of age.

For the attitude questions, 49% (27/55) felt comfortable recommending the vaccine injection for pregnant women and 65% (36/55) for children > 6 months of age.
There was no statistical significance between the knowledge and attitude responses for each category (pregnant women or children > 6 months of age). The high percentage of students who did not know about the safety of the influenza vaccine injection should be considered to improve awareness. It is worrying if pharmacy students, our future healthcare providers, are not well informed about the safety and risks of such a vaccine. The author suggests promoting awareness through campaigns, college bulletins, university newsletters, and above all to expand disease control taught topic in assigned courses within the curriculum.

The limited sample size and the method of selection should be taken into account when considering the generalisability of the findings.

CONCLUSION

To address the magnitude of students’ lack of knowledge and to change attitudes, awareness efforts toward safe influenza vaccine injection uptake should start at the university level. Public awareness of the safety of the influenza vaccine injection in children and during pregnancy is lacking in the Saudi community. Addressing this issue starts from academic institutions. This is the first investigation in any Saudi college of pharmacy and should help to improve education in assigned courses on infectious diseases and public health.

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