



Knowledge, Attitudes, Views and Considerations of health care providers toward Pharmacogenomics and Pharmacogenetics.

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INTRODUCTION

Pharmacogenomics deals with the application of genomics in pharmacology to study and analyze the outcome of genetic variations in responses to drug treatments. It is crucial to provide healthcare personnel with the necessary knowledge and understanding of pharmacogenomics.

OBJECTIVES

The purpose of this study is to assess the knowledge, attitudes, views, and considerations of health care providers about pharmacogenomics and pharmacogenetics.

METHODS

A cross-sectional web-based study was conducted among practicing pharmacists Between January and February of 2022. Participants were recruited through a social networking platform, and data was collected using a total of 21-items questionnaires to assess the Knowledge Attitudes, Views and Considerations towards Pharmacogenomics among pharmacist.

RESULTS

A total of 215 community pharmacist responded to the questionnaire. Majority of them were males 80.6%(174), majority of them were aged between 25-30 years, about half of the pharmacist 49.5% (107) were disagreed about the human has 48 chromosomes, while 72.7%(157) of them agreed that genetic changes cause adverse reactions, about 67.6% (146) of them reported that cigarette smoke can affect gene activity. With regards to views and consideration 54.6% (118) of the community pharmacist agreed that at some point in life they might consider having a genetic test to find out the risk of developing various genetic disease, while more than half of 58.3% (126) interested in attending genetic (PGX) course, and 56.5% (122) of the community pharmacist interested to participate in genetic research.

DISCUSSION & CONCLUSION

This study found that half of community pharmacists were aware of genomics, highlighting the need to improve knowledge of pharmacogenomics and pharmacogenetics in order to implement them in clinical practice in Saudi Arabia.

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