Virtual pharmacist interventions on abuse of over-the-counter medications during COVID-19 versus traditional pharmacist interventions

Author links open overlay panelNadiaAl MazroueiRana M.IbrahimAhmad Z.Al MeslamaniDerar H.Abdel-QaderOsamaMohamed Ibrahim

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Abstract

Objectives

This study aimed to investigate the frequency, nature, and clinical significance of <u>pharmacist</u> interventions on over-the-counter (OTC) medicines with abuse potential across <u>community pharmacies</u> with and without virtual care.

Methods

In this prospective observational study, a trained research team observed the dispensary teams of 12 community pharmacies in the United Arab Emirates (UAE), 6 of which were operating virtual pharmacy care. A standardized data collection form was used to include information about dispensing of OTC medicines and pharmacist interventions on those with abuse/misuse potential. The clinical significance of the interventions was evaluated by a multidisciplinary committee.

Results

The frequency of pharmacist interventions on OTC medicines with abuse potential across pharmacies with and without virtual services was 83.2% versus 91.0%, respectively, whereas the frequency of pharmacist interventions on OTC medicines with misuse potential across pharmacies with and without virtual services was 79.8% versus 41.2%, respectively. The proportions of clinically significant interventions across pharmacies with and without virtual services were 19.7% versus 10.5%, respectively. Cough medicines were dispensed significantly more across pharmacies with virtual care than across

pharmacies without virtual care (25.6% vs. 9.7%, respectively; P = 0.04). Asking the patient to seek the advice of an addiction specialist (adjusted odds ratio = 4.11; P = 0.001) versus refusing to sell the drug was more likely to be associated with pharmacies with virtual services than with pharmacies operating traditional pharmacy services.

Conclusion

Virtual <u>pharmaceutical care</u> is a potential approach to reduce the abuse/misuse of OTC medicines but needs some improvements regarding detection of these cases. The UAE is the first country in the region to implement and regulate virtual pharmacy practice.