Journal of Infectious Diseases & Research

JIDR, 3(S1): 06 www.scitcentral.com



ISSN: 2688-6537

Abstract: Open Access

The Pattern of Off-label and Unlicensed Drug Use in Adult and Pediatric Patients in the Kingdom of Saudi Arabia: Multicenter Retrospective Study

Nagham Sheblaq^{1*}, Zainab Albahooth², Fatmah Alfawzan², Khalid Alanazi², Sawsan Alshouli³, Amal Alghalbi³, Sameera Alshnaiber⁴, Moyasar Alkurdi⁴, Hajer Almudaiheem⁴, Sattam Almutairi⁵, Mohammed Alkuzaee⁵, Anoud Alanazi⁶, Abeer Alshareef⁶, Nawaf Alotibi⁷, Samia Almurshadi⁷, Mohammed Alotaibi⁷, Fatimah Aljohani⁸, Lama Almutairi⁹, Marwan ElBagoury¹⁰, Ahmed M Elagouz¹¹, Omar M. Hussein¹² and Amal Najjar³

*1Dominant Choice for Pharmaceuticalization, Saudi Arabia

²Prince Mohammed bin Abdulaziz Hospital, Saudi Arabia

³Security Force Hospital, Saudi Arabia

⁴Alyamamah Hospital, Saudi Arabia

⁵Maternity and Children Hospital, Makkah, Saudi Arabia

⁶Prince Sultan Cardiac Center, Saudi Arabia

⁷Prince Imam Abdulrahman Alfaisal Hospital, Saudi Arabia

⁸Prince Sultan Armed Force Hospital, Madinah, Saudi Arabia

⁹King Saud University Medical City, Riyadh, Saudi Arabia

10 Universität Ulm - Medizinische Fakultät, Ulm, Deutschl

11 University of the People, Pasadena, CA, USA

¹²Uxbridge Institute, UK.

Published April 30, 2020

ABSTRACT

Background: Screening approved medications to identify therapeutics for drug repurposing is an effective tactic, and a deep research into off label drug use (OLDU) is required. Unfortunately, OLDU has not been extensively studied in Middle East. Our study aimed to evaluate the extent of OLDU in Saudi Arabia.

Methods: Retrospective study carried out for 12 months period at six tertiary hospitals in Saudi Arabia. Each prescription was evaluated as unlicensed or OLDU based on the product information or based on Food and Drug Administration (FDA) approval.

Results: A total of 288 prescriptions were analyzed, where the reasons for off-label prescribing were OLDU by indication (94.42%), OLDU by different age group (2.09%), and other reasons represented (3.48%). Adults/geriatrics (≥18 years) received (89.05%) of the orders, and children (1-11 years) received (7.78%) of the orders. Both adolescents (12-18 years) and neonates (1-29 days) received (1.42%) of the orders per each category, while infants (1 month-1 year) received (0.36%) of the orders. The therapeutic classes most often prescribed were antidepressants (21.88%), antidiabetics (17.71%), and atypical antipsychotics (10.06%).

Conclusions: Off-label prescribing was found in most adults/geriatrics suffering from depression, and diabetes mellitus. The most common reason for off-label prescription was off-label by indication. The results call for the need to conduct more studies with larger sample size, do more investigations on the OLDU in the whole kingdom, and develop policy for OLDU across hospitals.

Keywords: Off-label medication, Guidelines, Prescriptions

Corresponding author: Nagham Sheblaq, Dominant Choice for Pharmaceuticalization, Saudi Arabia, E-mail: naghamramzi1@gmail.com

Citation: Sheblaq N, Albahooth Z, Alfawzan F, Alanazi K, Alshouli S, et al. (2020) The Pattern of Off-label and Unlicensed Drug Use in Adult and Pediatric Patients in the Kingdom of Saudi Arabia: Multicenter Retrospective Study. J Infect Dis Res, 3(S1): 06.

Copyright: ©2020 Sheblaq N, Albahooth Z, Alfawzan F, Alanazi K, Alshouli S, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.