

عنوان مقاله:

Adverse Effects Induced by Long-term Use of Hand Sanitizers Among Health Staff During COVID-19

محل انتشار:

مجله پیشرفت در تحقیقات بهداشت محیط, دوره 10, شماره 3 (سال: 1401)

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خلاصه مقاله:

Background: The present study examines the various complications and impurities of alcoholbased hand sanitizers during COVID-19 among health workers in Hamadan City, Iran.
Methods: This cross-sectional study was conducted on 178 healthcare workers in different hospitals affiliated with the Hamadan University of Medical Sciences. The inclusion criteria included health personnel working in hospitals dedicated to the care and treatment of patients with COVID-19 in Hamadan City. A researcher-made questionnaire was used to collect data. Afterward, to evaluate the quality and impurities of the alcohol-based hand sanitizers used by healthcare workers, various samples were collected and analyzed using gas chromatographymass spectrometry (GC-MS). Stata software version ۱۴-۲ was used to analyze the data.
Results: The highest and the lowest percentages of ethanol in washing solutions and gels were ۶۸.۲۴% and ۶۰.۷۱%, respectively. Among them, the frequency of using gel, solution, and spray was ۹۳.۸۲%, ۴۲.۱۳%, and ۴۹.۴۴%, respectively. Skin and breathing sensitivity were the most common symptoms in ۴۴.۳۸% and ۲۷.۶۸% of the health workers, respectively. Skin dryness (۵۰%) and sore throat (۲۵.۸۴%) were the most common complications observed in skin and respiratory symptoms among health workers, respectively.
Conclusion: Our findings implied that the prevalence of various complications related to the use of alcohol-based hand sanitizers is high among health workers, which highlights the role of using appropriate alcohol-based hand rubs with suitable formulations in the hospital

.environment to reduce the adverse health effects caused by their long-term and extensive use among health workers

کلمات کلیدی:

problems, Hand sanitizers, Skin epidermis, COVID-۱۹

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