

## عنوان مقاله:

Gram Positive Bacterial Profile, On Computer Keyboards and Mice in Qassim University and Efficacy of Disinfectants to Eliminate Contamination

## محل انتشار:

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## خلاصه مقاله:

**Introduction:** Computers are ubiquitous and have been shown to be contaminated with multiple bacteria's in some communities. There is no economical way to test all the keyboards and mice out there, but there are effective ways to prevent bacterial contamination or eliminate it if it exists. **Method:** This was an observational study using the cross-sectional study design. Swab specimens were collected from surfaces of 43 computer keyboards and mice from Computer college, Business college, PYP and Library and plated on different bacteriological media. Organisms growing on the media were purified and identified at Qassim University Department Of Applied Medical Sciences Microbiology Laboratory by using gram stain and various biochemical tests. The second phase of sample collection done by collection of samples before and after the use of DETTOL, COLROX and DAC. It was found that all the tested computer keyboards and mice devices, were positive for gram positive bacterial contamination, and the data was analyzed using excel software. **Recommendations** were developed to create awareness among the students and staff of Qassim University, who used the computers during their study time. **Findings:** It was found that all the tested computer keyboards and mice devices, from Computer college and Business college, Preparatory Year Program and Library, were positive for microbial contamination. The percentages of isolated bacterial species (Staph CoN, Staph aureus, Micrococci, streptococci and Bacillus) were 46.51 %, 6.97%, 4.65%, 2.32%, and 41.8 from all colleges respectively. The average of percent of colonies reduction for DETTOL, CLOROX and DAC were (90%, 80%, and 51%). **Conclusion:** Isolated bacterial species (Staph CoN, Staph aureus, Micrococci, Streptococci and Bacillus) were 46.51 %, 6.97%, 4.65%, 2.32%, 41.8 from all colleges respectively. Most effective disinfectants DETTOL (90%), CLOROX (80%) and DAC (51%). On the basis of these findings, it is suggested that routine cleaning of keyboards and mice may aid the fight against the contamination. Also, hand washing before and after contact with keyboards and mice should be practiced to significantly reduce the contamination.

## کلمات کلیدی:

Gram positive, Computer's keyboards (CK), Computer's mouse (CM), Dettol, Chlorox, DAC

## لینک ثابت مقاله در پایگاه سیویلیکا:

