

## Disinfection of the radiologist workstation and radiologist hand hygiene: a single institution audit

### Authors:

Quon, J.S. MD; Ryan, J. MD, FRCPC

### Purpose:

The purpose of this study was to evaluate the workstation disinfection rates and hand hygiene habits of radiologists and trainees at shared departmental workstations, and to assess the impact of education and daily reminders on behaviours.

### Methods:

A 10-question internet-based survey was administered to all staff radiologists, fellows and residents at our institution in January 2014. The questions pertained to frequency of workstation disinfection, hand washing habits and accessibility to disinfectant wipes and hand sanitizer stations. Subsequently, a short educational PowerPoint presentation was emailed to the department and small placards stating, "Did you disinfect your workstation today?" were placed at each workstation. A follow-up survey was administered in March 2014. Chi-squared and Wilcoxon signed-rank tests were used to analyze the results.

### Results:

The percentage of participants who disinfect their workstations 1-2x/week, 3-4x/week or everyday increased from 54% to 74% ( $p=0.01$ ), while the number who disinfect their workstation less than once per week or never decreased from 46% to 26% ( $p=0.01$ ). Hand washing before working at the workstation increased from 42% to 49% ( $p=0.76$ ) and hand washing after working at the workstation increased from 50% to 57% ( $p=0.49$ ), but the results were not statistically significant.

### Conclusions:

At our institution, the implementation of daily reminder placards at each workstation and the administration of an educational PowerPoint presentation improved the rate of radiologist workstation disinfection and showed a trend toward improving hand washing.