A Research on State Infection Control for Employee at Inspection Room of MRI

Kil-Soo Ra*, Cheong-Hwan Lim**

*HanSeo University, Korea, **HanSeo University, Korea
E-mail: jeb@caluni.edu, lch116@hanseo.ac.kr

1. Introduction

When patient visits the medical institution, medical institution conducts many kinds of tests. Since there is a limited place in radiology, and many patients with many different diseases visit the place to receive the examination, it is the department which causes many infections. Especially, radiological technologists who often directly contact with the patient can be the cross-infection source. Therefore, infection control needs to be done well.

2. Object and Method of Study

This research is conducted to investigate the state of infection control for radiological technologists who work in radiology MRI inspection room, comprehend recognition on infection and operations of infection control manager, and know distribution of virus on keyboard and mouse which have the most radiological technologists' contacts in MRI inspection room. The subject of the research is ten medical institutions. The distribution of bacteria on keyboard and mouse which are used the most by employees at MRI inspection room is measured(Fig. 1, 2). 112 radiological technologists who work in MRI inspection room are surveyed, the survey is analyzed, and the following result is attained.











Fig. 1. Kyeboard and Mouse Swab

Fig. 2. Transport Medium

3. Results

Bacteria is founded on mouse and keyboard in 7 places out of 10 places. The rate of bacteria is high. Bacteria is founded in 80% of higher general hospital. The medical institution which does conduct disinfection of keyboard and mouse tends to have more virus than the medical institution which does not conduct disinfection. One time disinfection of keyboard and mouse in the morning is conducted the most by medical institutions. There are also high number of medical institution which does not conduct disinfection of mouse and keyboard. As shown in the analysis result of state of infection control operation in MRI inspection room, radiological technologists who work in MRI inspection room directly administer the infection control in most of medical institutions.

Considering disinfection of keyboard and mouse by infection control manager, disinfection is done the most when radiological technologists who work in MRI inspection control the infection. It is statically meaningful (p<.05). The analysis which considers period of disinfection of mouse and keyboard by infection control manager shows that one time disinfection in the morning is conducted the most by radiological technologists who work in MRI inspection room and control the infection. The analysis is statically meaningful(p<.05)

4. Conclusion

This research suggests that medical institution should conduct more through infection control, prevent cross-infection between patient and inspector, and conduct thorough disinfection by using designated disinfectant. Rather than direct infection control by radiological technologists who work in MRI inspection room, more systematic and effective infection control need to be done in radiology.

5. References

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