

# **WIRE AND WIRELESS COMMUNICATION PROBLEM IN MEDICAL CENTER: AN ISSUE TO BE MANAGED**

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## **ABSTRACT**

The use of communication technology can help administrating the daily work at present In medical center, the use of communication technology can be seen and it is routinely use for manage of the patient flow within the medical center. At present, there are several communication ports in the medical center ranging from the classical telephone to the advanced wire and wireless communication technology. Here, the authors express and discusses on important issue on existed problems in the wire and wireless communication in medical center.

## **INTRODUCTION**

The use of communication technology can help administrating the daily work at present In medical center, the use of communication technology can be seen and it is routinely use for manage of the patient flow within the medical center. At present, there are several communication ports in the medical center ranging from the classical telephone to the advanced wire and wireless communication technology. Here, the authors express and discusses on important issue on existed problems in the wire and wireless communication in medical center.

## **EXISTED PROBLEMS**

### **CONTAMINATION**

The use of communication tool such as mobile or computer in the medical clinic is common at present. In some areas that required control of pathogen, the great consideration is on the

contamination [1 - 2]. The contamination of mobile phone is possible but commonly forgotten and this becomes the big problem in infection control in the medical setting. In addition, the use of mobile phone in medical center is also a possible annoyance to the quiet zone in the hospital.

### **DATA HACKING**

With the use of communication system, the data becomes important concern. The data hacking becomes a new concern. The data protection becomes a very big problem that requires good preventive and corrective action plans [3].

### **PRIVACY**

The privacy of the patient is very common. Now, the patients usually use the communication tool such as mobile phone in the medical center.

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Sometimes, the patients use the communication tool to take the photography in the medical center and post it on the internet. This can invade the privacy of the others. Strict control of the use of wireless communication in some areas of the medical center is required [4 - 5].

### **SYSTEM WENT DOWN EPISODE**

When there is a high workload, a common problem in any medical center is the system downing. If the medical center uses the full wireless communication system, the problem of lack of data to further process the system can be seen. Sometimes, there must be the sparing system for resuming to classical communication system such as paper work.

### **MAINTENANCE COST**

For any medical instrument including to the communication tool, the maintenance is needed. It is no doubt that there must be the cost. The cost of the maintenance is usually forgotten. Sometimes, the cost for maintenance or upgrading of the communication system is high and becomes the big problem for the medical center in the poor developing countries.

### **CONCLUSION**

Wire and wireless communication are widely

used in medical center. There are some specific concerns on those communication systems in this kind of settings. The communication engineering design must take account to those basic concerns.

**CONFLICT OF INTEREST:** None

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