

Biomedical Maintenance Evaluation & Improvement

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Abstract

Preventive maintenance of a medical equipment should begin as soon as the equipment is put in service. A properly designed and managed maintenance program will have great impact on.

- Equipment performance & safety.
- Equipment life expectancy.
- Down time when failure occurs.
- Frequency and severity of equipment failure.

Maintenance whether preventive or corrective plays as crucial role in the performance of medical equipment. It has a direct impact on both the services provided to the patient as well as the hospital revenue. This highlights the importance of maintenance performance evaluation to insure a proper maintenance and improved level of equipment performance.

In this paper we will look at the factors that need to be considered when evaluating both corrective & preventive maintenance.

In the corrective maintenance evaluation, we will look at the importance of many factors such as speed, attitude, technician competency, life of fix, etc. We will highlight the factors that need to be evaluated periodically to improve on the maintenance performance such as:

- Outcome indicators.
 - PM compliance.
 - Repair compliance.
 - Call back.
 - Turn around time.
- Process indicators.
- Users questionnaire.