

Electrical safety in health care area

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Summary

An electrical safety in health care area is necessary to protect patients and staff from potential electrical hazards. Functional, accurate and safe clinical equipment is an essential requirement in the provision of health services. Well-maintained equipment will give clinicians greater confidence in the reliability of its performance and contribute to a high standard of client care. Clinical equipment, like all health services, requires annual or periodic servicing of medical equipment. In addition to planned servicing and preventative maintenance, there may be the unexpected failure of medical (and other) equipment, necessitating repair. In general, clinical equipment that has an electrical power source and has direct contact with the client must be serviced as a first priority. In this presentation, a review of the main concepts related to the electrical safety in health area, the international standard, the distribution of electric power in hospital and protection against shock will be introduced. Protection system in hospital will be presented in its two ways: in power distribution in hospital and in biomedical equipment design, finally the optimum maintenance technology and safety tests in health care area will be presented also.

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