

Biomedical/Clinical/Hospital Engineering Providing a Safe Health Care Environment

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What is a Safe Health Care Environment?

- An environment where patients can be treated and cared for without compromising their health and safety.

Where is a Health Care Environment

- Hospital
- Nursing Home
- Patient Home
- In Transit

Safe Health Care Environment

- Proper Operating Medical Equipment
- Electrical Safety
- EMI
- Emergency Power
- Alarms

Safe Health Care Environment

- Patient Monitoring – Long Term Care
- Call Systems
- Safe Beds
- Security - Nursery

Safe Health Care Environment

- Gas Systems
 - Proper gas
 - Sufficient
 - Installation
- MRI - magnet

Safe Health Care Environment

- Proper Networking
- Patient Records

Safe Health Care Environment

- HVAC – Proper Air
- Infection Control
- Construction

Safe Health Care Environment

- Moisture – Mold
- Water
 - Legionella
 - Proper Bath Water Temperature

Safe Health Care Environment

- Proper Fire Prevention
- Proper Fire Protection
- Construction
- Structural Safety

Safe Health Care Environment

- Back-up Systems
 - Emergency
- Hospital Contamination
 - Emergency Room
 - Decontamination

Safe Health Care Environment

- Safe Homes
 - Electrical
 - Water Quality
 - Communications

Hospital Engineering

A Safe Health Care Environment depends on Biomedical/Clinical and Hospital Engineering.