

EFFECTIVENESS OF DISINFECTION USING HYDROGEN PEROXIDE BASE DISINFECTANT.

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ABSTRACT: The disinfection of hospital surfaces contributes to the effectiveness of hospital infection control. According to ANVISA, cleaning and disinfection of surfaces in health services are primary and effective elements in the control measures to break the epidemiological chain of infections. It is known that the presence of pathogenic microorganisms on hospital surfaces is a risk factor for cross contamination and that hospital infections are among the main causes of morbidity and mortality in hospitals. Failure to clean procedures and lack of an established routine contributes to the presence and resistance of pathogens. The present study, based on available literature, field research, invitro tests and interpretation of results contributes to the analysis of the environment and to demonstrate in practice the effectiveness of hydrogen peroxide in disinfecting hospital surfaces. Demonstrate the effectiveness of the hygiene and disinfection process, quantify and qualify the microbial load of hospital surfaces before and after the final cleaning of hospital beds. The study was conducted in partnership with SCIH of Hospitals in Salvador Bahia. Samples were collected from pre-established surfaces (bed ...) in high post beds before and after cleaning and disinfection with 5th Generation ammonium quaternary base disinfectant. For specimen collection RODAC PLATE contact plates prepared with TSA culture medium, Manitol Salgado, Mac Conkey and Cetrimide Agar DIFCO. The microorganisms studied were total mesophiles, *Pseudomonas aeruginosa*, *Escherichia coli* and *Staphylococcus sp.* After the collection, the samples were identified and sent to the microbial laboratory. Gram staining and biochemical tests were performed to confirm the species. After cleansing and disinfection using hydrogen peroxide based disinfectant, the pathogens were eliminated. The results showed that disinfection was effective in eliminating the pathogens studied. Disinfection when combined with procedures, use of safe products and the correct cleaning routine contributes to the control of cross-contamination and hospital infections.