ANTIBIOGRAM AND PLASMID PROFILE OF ISOLATED ENTEROBACTERIACEAE IN TOOTHBRUSHES

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ABSTRACT

The Enterobacteriaceae family is represented by Gram negative bacillus bacteria, which can contaminate toothbrushes. Objective: The research aimed to identify enterobacteria and to analyze and check its plasmid resistance profile. Material and methods: The brushes were stored in three different ways: 1/3 in a plastic brush holder, 1/3 in an open cardboard brush holder and 1/3 in an open cardboard brush door sprayed with 1% sodium hypochlorite. Results: After microbiological characterization, it was observed that the open cardboard toothbrush holder had the highest number of colonies countless. Of 45 samples, seven showed the presence of plasmid. Conclusions: This study showed that among the three forms of packaging, the plastic and cardboard brush holders sprayed with 1% sodium hypochlorite can be used to reduce toothbrush contamination.

Keywords: Bacteria; Packaging; 1% Sodium Hypochlorite, Hygienization; Contamination.