Comparative study of the effectiveness of herbal and chemical disinfectants on alginate impression made from diabetic dentulous patients

1.Dr. Roopali Sharma, BBDCODS, 2.Dr. Garima agarwal,BBDCODS,

3. Dr. Lakshmi Bala, BBDCODS, 4. Dr. Anuj Maheshwari, HIMS,

5. Dr. Ruquaya Bashir, BBDCODS, 6. Dr. Sunidhi Sharma

Email Id: serviceheb@gmail.com

Abstract

Background: Dentists, dental equipments and dental laboratories are exposed to different types of pathogenic microorganisms. Chlorhexidine, which is a chemical disinfectant considered as the gold standard, whereas Aloevera in the form of herbal remedy have shown promising anti-microbial property.

Aim: The purpose of the present study was to compare anti-bacterial effectiveness of the chlorhexidine and herbal aloevera gel on alginate impression made from diabetic dentulous patients.

Materials and methods: In this study 30 samples of alginate impression were collected from diabetic dentulous patients. Each sample was divided in to 3 parts: one treated with 2 % Chlorhexidine, second treated with aloevera gel extract and third part is remain untreated.

Result: The data obtained from the above study demonstrates that the efficacy of aloevera is comparable to chlorhexidine (a gold standard) as a disinfectant for microbial growth on alginate impression.

Conclusion: Efficacy of aloevera, the herbal disinfectant is comparable to chlorhexidine, the chemical disinfectant on alginate impression made from diabetic dentulous patients.

Keywords: Anti-microbial properties, Chlorhexidine, Alginate impression, Herbal disinfectant

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