



HEB

**Journal of Prosthodontics Dentistry (JOPD)**  
**An Official Publication of Bureau for Health & Education Status Upliftment**  
 (Constitutionally Entitled As Health-Education, Bureau)

JOPD

## Disinfection of Prosthesis in Dental Laboratory

*Dr. Vignesh Veerakumar, Dr. Sajida Begum.S, Dr. Bhuvanesh Kumar Dharani Vidhya,  
 Dr. Divyameena. B*

Associate Professor, Dept of Prosthodontics, Vinayaka Mission's Sankarachariyar Dental College, Vinayaka Mission's Research Foundation (DU), Salem, Tamilnad

Associate Professor, Dept of Prosthodontics, Vinayaka Mission's Sankarachariyar Dental College, Vinayaka Mission's Research Foundation (DU), Salem, Tamilnadu

Assistant Professor, Dept of Prosthodontics, Vinayaka Mission's Sankarachariyar Dental College, Vinayaka Mission's Research Foundation (DU), Salem, Tamilnadu

Assistant Professor, Dept of Conservative and Endodontics, Vinayaka Mission's Sankarachariyar Dental College, Vinayaka Mission's Research Foundation (DU), Salem, Tamilnadu

**Correspondence Email ID: serviceheb@gmail.com**

### Abstract

Dental care professionals are higher chance to prone cross infection while treating the patient. The diseases transmission had become evident at first stage and most human microbial pathogens have been isolated from oral fluid secretions. Thus, the cross contamination of diseases brought to contact with microorganisms such as Mycobacterium tuberculosis, hepatitis b, hepatitis c and herps viruses, staphylococci, streptococci, lactobacillus, pseudomonas, Enterobacter, actinomyces, and other bacteria, viruses and Fungai. Transmission of infection through the Impressions, record bases, impressions trays, occlusal rims, articulators, dentures, metallic and porcelain fused crowns, implant abutments can transmit the pathogenic microorganisms from the dental clinic to dental laboratory. To avoid the cross contamination of microbes' various disinfection methods are enhanced through chemically included sodium hypochlorite, chlorine dioxide, glutaraldehyde, alkaline peroxide, chlorhexidine gluconate, alcohol-based solutions, Iodophors solution are effective method for disinfection. Mechanical methods include Autoclaving through dry heat and sterilizations, ultrasonic cleaning, photodynamic therapy, microwave irradiation techniques that are majorly used to disinfect the prosthesis.

**Keywords** – Disinfection, Autoclave sterilization, Complete denture, Fixed Partial Denture, Implant Abutment.

### *Access this Article Online*

Website: <a href="http://heb-nic.in/jopd-issues/">http://heb-nic.in/jopd-issues/</a>	Quick Response Code:
Received on 12/08/2024 Accepted on 04/09/2024 © HEB All rights reserved	