

Endodontic Instrument For Root Canal Sterilization

Decaying teeth lead to painful conditions and the treatment for this is either removal of the offending teeth or doing *a root canal treatment*.

In *root canal treatment*, the tooth is drilled and the pain causing nerves are removed, after which the root is filled. The success of the treatment rest on total removal of bacteria in the teeth.

This technology is an instrument for sterilizing root canal(s) of the tooth during endodontic (root canal) procedures in Dentistry. This is an instrument that uses capillary action to promote the spread of solutions, which kills all the bacteria.

Salient Features:

- Till now only disinfection has been obtained with the traditional root canal treatment techniques but no sterilization. This technology solves the problem of sterilization in root canals.
- Sterilization is brought about by Ag⁺ ions released in the aqueous sterilizing media.
- It can be used as a filling material so that the entire treatment is over in one sitting.
- This is easy to use and very economical, thus reducing the entire cost of root canal treatment.
- All aerobic organisms are destroyed after using the instrument. E.fecalis, which is the most persistent organism and is reported to cause most cases of reinfection, was also destroyed.

Major Application / End Users

- General Dental surgeons
- Endodontist
- Patients who cannot access costly root canal treatment.