

HERBAL IRRIGANTS

Azadiracta Indica (Neem)



Neem

- Antioxidant and wide spectrum antibacterial action, versatile medicine.
- 0.33%AI is highly efficient compares to 5.25% NaOCL in reducing micro organisms within root canal.

Green Tea Polyphenols



Green Tea

- Obtained from the leaves of Camellia Sinensis.
- Antimicrobial action is attributed to inhibition of bacterial enzyme gyrase due to high flavonoid content.
- It is also found to be a good chelating agent.

Aloe vera



Aloe vera

- It consist of 0.0013% protein and 99.5% water.
- It has 75 active ingredients including vitamins, minerals, enzymes, sugars, amino acids, and organic and inorganic compounds.
- The main chemical ingredients are aloins and barbadoins.

Curcuma Longa (Turmeric)



Turmeric

- Curcumin, yellow bioactive pigment has wide spectrum of actions such as antioxidant, anti-inflammatory, antifungal, antibacterial
- Prudent material to replace traditional root canal irrigants.

Herbal irrigants in endodontics are an emerging field of research focused on creating safer, biocompatible, and eco-friendly alternatives to traditional chemical irrigants like sodium hypochlorite and chlorhexidine, which can be cytotoxic and may harm periapical tissues.



Morinda Citrifolia



Morinda



- Biocompatible antioxidant, antibacterial.
- L-asperuloside and alizarin is responsible for its antibacterial activity.
- It appears to be first juice to be identified as possible alternative to NaOCL.

Triphala



Triphala

- Herbal formulation made of 3 fruits that is Emblica Officinalis, Terminalia Chebula, Terminalia Belerica.
- Rich in citric acid and may aid in smear layer removal.