







Where Chemistry Meets Nature!

<u>Neem</u>

- Antibacterial properties against S.mutans,
 E.faecalis, Candida albicans.
- Presence of flavonoids and acid metabolites.
- Highest amount of smear layer removal.

Indian mulberry (Noni)

- Irrigating efficacy similar to sodium hypochlorite.
- Effective chelating agent.
- Used with 6%concentration with pH of 3.5.

Tea tree oil

- Solvent action.
- Dissolves necrotic tissue.

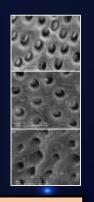
Conclusion:Herbal products appear promising in vitro, but need more preclinical and clinical research before they can be definitively suggested to be used in endodontics.



Green Tea

Triphala

- Anti oxidant property.
- Inhibit biofilm formation.
- More effective in the removal of smear layer compared to normal saline.



Indian soapberry (Ritha)

- Contains saponins which act as natural detergent and surfactant.
- Antibacterial and antifungal properties

Green tea extract

Broad spectrum action and chelating agent.

ADVANTAGES

- ✓ Less cytotoxic
- ✓ Economical
- Easily available
- , biocompatibility

DISADVANTAGES:

- ✓ Fresh preparation needed
- ✓ Less shelf life