

Non-surgical periodontal therapy

- **Scaling and root planing**
 - Hand instrumentation
 - Selection of instruments
 - Gracey
 - New edges
 - Small designs
 - Diamond files
 - Furcation files
 - Ultrasonic
 - Piezo-electric
 - Sonic

Extraction Studies

- Pockets deeper than 4 mm
 - Over 50% of the root may have residual calculus after traditional root planing
- Significant calculus remains after surgical root planing
- Calculus remains after endoscope

Comparison

- **Hand instruments**
 - Greater control
 - Increased tactile sensitivity
 - Area specific designs for greater adaptation and access
- **Ultrasonics**
 - Less tissue distension
 - Advantage of lavage & irrigation
 - Reduced operator fatigue
 - Sharpening not required

Ultrasonics

- Effectiveness varies
- Decrease stress and fatigue on clinician
- Not always a substitute for hand instrumentation
- Aids in limitation with CI II and III furcations by hand instrumentation
- Removal of biofilm

Ultrasonic Consideration

Aerosols

Pre-Rinse Cycle?



Preprocedural rinses

Preprocedural rinses

- Scientific evidence is inconclusive to use preprocedural antimicrobial rinses to prevent clinical infections among DHCP or patients
- Decrease number of microorganisms in aerosol or spatter producing procedures
- Decrease number of microorganisms in patient's bloodstream during invasive dental procedures

Antimicrobial Rinses

- Chlorhexidine gluconate
- Essential oils
- Providone-iodine



Infection Control

- CDC recommends use of HVE (high volume evacuators) when droplets or aerosols are produced
- American Dental Association strongly encourages use of HVE rather than saliva ejectors to control aerosols

Hygiene Risk

- Hygiene procedures are high in droplets and aerosols
- Recommendation is ignored usually due to lack of chairside help
- Easy to become less careful in protocol when tired or rushed to stay on schedule
- Infection control procedures are routines performed multiple times a day which may encourage lapses in strict adherence

**Some people
drink
at the fountain of
knowledge,
others just gargle.**

