Clinical Studies Supporting the Perioscopy System

Subgingival Identification study. SEM evaluation
- 42 teeth, 210 sites
- 4 hygienists
95% accuracy in identifying topographical landmarks and features

Extraction Study: SEM evaluation
- 42 teeth, 210 sites
- Teeth cleaned with aid of dental endoscope (Perioscopy)
- Teeth extracted and SEM evaluated
1.2% of Endoscope aided SRP had residual calculus – mostly at CEJ
Similar study designs in literature showed 10 – 50% residual calculus remaining following traditional SRP w/out endoscope

Endoscopic SRP (Perioscopy)
- 46 patients, 73 quadrants
  - Sites treatment planned for surgery
  - Used endoscope and non surgical therapy first
  - 1 year follow-up at 3 month intervals
- Treated by 1 hygienist
At 1 year, 71 – 73 quadrants required no flap surgery
Mean attachment gain of 2.06mm

Retrospective look at Perioscopy treatment outcomes after three years (626 sites)

In pockets 4 – 6mm
PD reduction of 1.94mm with endoscope as compared with traditional SRP reported in literature of 1.0mm
Attachment gain of 1.92mm as compared with traditional SRP reported in literature of 0.38mm

In pockets over 6mm
PD reduction of 4.4mm with endoscope as compared with traditional SRP reported in literature of 2.18mm
Attachment gain 4.1mm as compared with traditional SRP reported in literature 0.97mm

Clinical Data Supporting use of Perioscopy System
In Press or In Progress

Harrell SK, Wilson TG. Minimally invasive surgical technique utilizing Enamel Matrix Protein and Dental Endoscope

- Accepted for publication Journal Periodontology
- Excellent clinical results
  - Average CAL 3.57 as compared to traditional surgical techniques found in the literature averaging 1.8mm
  - Average PD reduction 3.56 as compared to traditional surgical techniques found in the literature averaging 2.7
  - Average recession following procedure 0.01mm as compared to traditional surgical techniques found in the literature averaging 0.9mm

Wilson TG, et al.... Histology non-surgical applications
Wilson TG, et al.... Histology surgical applications