Treatment Procedure

A. Periodontal probe bone sounding to full depth of bony defects.
B. PerioLase® MVP-7™ laser energy selectively vaporizes bacteria, endotoxins and diseased epithelial lining of the pocket; denatures pathologic proteins; and alerts the practitioner to the presence of calculus.
C. Ultrasonic scaler and specialized tips are used to remove root surface calculus.
D. Bone is modified to reshape, decorticate, and stimulate the release of fresh blood, stem cells and growth factors. Angiogenesis is initiated.
E. PerioLase MVP-7 is used to form a stable fibrin clot, activate growth factors, and upregulate gene expression.
F. Rete ridges are repositioned to the clean root surface; red blood cells, fibroblasts, stem cells, and growth factors fill entire defect with a stable fibrin clot to the gingival crest to create a ‘closed system.’
G. Occlusal trauma is adjusted to eliminate excessive contacts and allow for passive eruption.
H. True Regeneration of new cementum, new periodontal ligament, and new alveolar bone occurs.