A. Periodontal probe bone sounding to full depth of bony defects.

B. PerioLase® MVP-7™ laser energy selectively vaporizes bacteria, endotoxins, diseased epithelial lining of the pocket, and granulomatous tissue; denatures pathologic proteins; and removes titanium corrosion contaminants in soft tissue.

C. Ultrasonic scaler and specialized tips are used to remove calculus and cement from the implant surfaces.

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. Coronal soft tissue is approximated against the implant to achieve adhesion to the clean 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 mobility.

H. Regeneration of bone around implant.