



**Japan Association
of Microscopic Dentistry**

The 20th Annual Meeting & Scientific Session Lecture & Hands-on Seminar

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Advanced periodontal regeneration- to build up bone from zero walls and to enhance vertical ridge augmentation.

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The periodontal regeneration has been proved to be predictable with a long-term success under certain circumstances such as defect types and dimensions. The 1-wall defect has never been considered predictable nor has the zero-wall defects, which have never been categorized. This presentation will demonstrate not only the possibility of periodontal regeneration on the zero-wall defects but also the synergetic effects of such the regeneration on vertical ridge augmentation. The essential elements for a successful periodontal regeneration include thorough defect debridement, adequate biomaterials, optimal wound healing, and tension free closure.

The first obstacle is to remove the granulation completely. The blade widths of most instruments may limit the accessibility to the narrow & deep osseous defects. In this instance, Er,Cr:YSGG dental laser has its advantages of non-touching blasting effects and focal spot laser beams, making it easier to debride the periodontal defects. Incision, flap design and wound closure are also play pivotal roles in obtaining stable wound healing. This presentation will go over those key steps and concepts to achieve maximal periodontal regeneration and vertical ridge augmentation.

The objective of the presentation is to provide a novel approach to accomplish periodontal regeneration for the challenging periodontal defects as well as to obtain vertical ridge augmentation at the same time.