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Poly(Lactic Acid/Caprolactone) Bilayer Membrane for Periodontal Regeneration

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This lecture presents findings from a study evaluating the periodontal tissue regenerative capacities of a Poly(lactic acid/caprolactone) (PLCL) bilayer membrane in one-wall infrabony defects in dogs. Despite PLCL's proven efficiency in bone regeneration, its efficacy for periodontal regeneration therapy has not been previously assessed. Participants will gain insights into the study's methodology, which involved creating standardized bone defects in beagle dogs and comparing various test groups, including carbonate apatite and xenografts, against a control group. The analysis included radiological, histologic, and histomorphometric evaluations conducted eight weeks post-surgery. The findings and their clinical implications will be discussed.