

INTERDEPARTMENTAL CLINICAL MEET

DEPARTMENT OF PERIODONTOLOGY

31-08-2026

“NEW VISTAS IN REGENERATIVE APPROACH FROM NON-SURGICAL TO MESENCHYMAL STEM CELL THERAPY.”

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SUMMARY

INTRODUCTION:

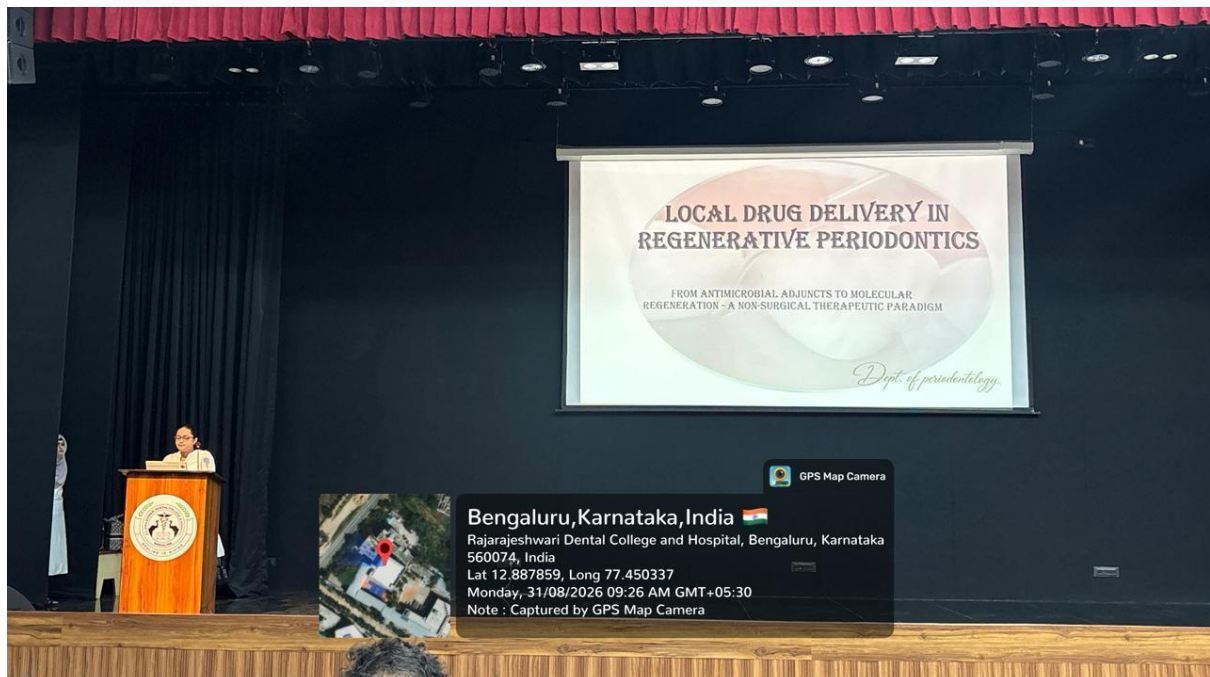
Periodontal therapy has evolved considerably from conventional approaches aimed primarily at controlling infection and arresting disease progression to contemporary strategies focused on tissue preservation, regeneration, and restoration of periodontal structures. Advances in non-surgical periodontal therapy, particularly local drug delivery systems, have enhanced the ability to achieve targeted antimicrobial and therapeutic effects. In surgical therapy, the use of platelet concentrates and bone graft materials, along with minimally invasive surgical techniques (MIST), has further improved clinical outcomes while promoting predictable periodontal regeneration. More recently, advances in regenerative medicine have opened new avenues through the application of mesenchymal stem cells and tissue-engineering approaches, offering the potential for biologically driven regeneration of the periodontium. Thus, the present topic, **“New Vistas in Regenerative Approach: From Non-Surgical to Mesenchymal Stem Cell Therapy,”** highlights the evolving spectrum of periodontal treatment modalities and the transition from conventional disease control towards innovative, minimally invasive, and biologically based regenerative strategies.

CONCLUSION:

The contemporary approach to periodontal therapy reflects a gradual shift from merely controlling periodontal infection to regenerating lost periodontal tissues and restoring their biological function. Local drug delivery has strengthened non-surgical disease management, while platelet concentrates and bone grafts have expanded the possibilities of periodontal surgical regeneration. Minimally invasive techniques have further emphasized tissue preservation, reduced surgical trauma, and improved patient outcomes. Looking ahead, mesenchymal stem cell therapy and other advances in regenerative medicine represent promising frontiers that may enhance the predictability and extent of periodontal tissue regeneration. Although further evidence is required to establish their long-term clinical efficacy, these developments collectively demonstrate that the future of periodontology lies in integrating infection control, minimally invasive intervention, biomaterials, biological mediators, and cellular therapies to achieve more predictable and functionally meaningful periodontal regeneration.



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AUDIENCE

