

29th IOS NATIONAL PG CONVENTION

WORKSHOP

Maxillary Expansion Across Age Groups: From Slow Expansion to MARPE – Evidence Based Clinical Protocols



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DATE: 5TH FEB 2026

TIME: 11AM - 5PM

MAXILLARY EXPANSION ACROSS AGE GROUPS: FROM SLOW EXPANSION TO MARPE – EVIDENCE BASED CLINICAL PROTOCOLS

LIVE PRE-CLINICAL DEMO WORKSHOP

This live pre-clinical demo workshop is designed to provide participants with a comprehensive understanding of the biomechanics, indications, appliance selection, activation protocols, and clinical execution of all maxillary expansion techniques. Emphasis will be placed on age-appropriate decision-making, management of borderline cases, and prevention of unwanted dento-alveolar effects.

The program integrates didactic lectures, case-based discussions, digital planning, and hands-on demo of appliance fabrication and activation, enabling participants to confidently implement maxillary expansion protocols in daily clinical practice—from early mixed dentition to skeletally mature adults using MARPE.

LEARNING OBJECTIVES

At the end of this workshop, participants will be able to:

- Diagnosis & Case Selection
 - Identify maxillary transverse discrepancies using clinical examination, study models, CBCT, and digital analysis.
 - Differentiate between dental, alveolar, and skeletal constriction.
 - Assess age, growth status, and mid-palatal suture maturation to guide expansion modality selection.
- Understanding Expansion Modalities
 - Understand the biomechanics and biological response of:
 - Slow Maxillary Expansion (SME)
 - Rapid Maxillary Expansion (RME)
 - Miniscrew-Assisted Rapid Palatal Expansion (MARPE)
 - Compare tooth-borne, tooth-tissue borne, and bone-borne expanders.
- Age-Based Treatment Planning
 - Select appropriate expansion protocols for:
 - Early mixed dentition
 - Late mixed and adolescent patients
 - Young adults and skeletally mature patients
 - Recognize borderline cases where MARPE may eliminate the need for surgically assisted expansion, bite correction, and arch coordination.

LEARNING OBJECTIVES

- Clinical Execution & Hands-On Skills
 - Design and activate:
 - Slow expansion appliances
 - Conventional RPE appliances (Hyrax / Haas)
 - MARPE systems with proper miniscrew positioning
 - Perform safe activation protocols and manage retention phases effectively.
- Managing Side Effects & Complications
 - Prevent and manage:
 - Buccal tipping
 - Periodontal side effects
 - Root resorption risks
 - Asymmetric expansion and relapse
 - Understand retention strategies for long-term stability.
- Interdisciplinary & Advanced Applications
 - Integrate maxillary expansion with:
 - Clear aligner therapy
 - Fixed appliances
 - Airway-oriented orthodontics
 - Understand the role of expansion in OSA, crossbite correction, and arch coordination.
- Clinical Outcomes & Evidence
 - Interpret current literature and evidence supporting each expansion method.
 - Evaluate clinical success, stability, and patient-reported outcomes across age groups

WORKSHOP SCHEDULE

- Introduction to Biomechanics and Indications
- Appliance Selection and Activation Protocols
- Age-Appropriate Decision-Making and Clinical Execution
- Managing Borderline Cases
- Preventing Unwanted Effects
- Integration of Techniques
- Demo on skull models

REGISTRATION DETAILS

₹3,000/-

Includes: Each delegate will be provided with Certificate

FOR QUERIES, CONTACT

Dr. R S V M Raghu Ram - 9618060003

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