

Trauma Lab: Mastering Real-World Dental Emergencies from Primary to Permanent Dentition

An Advanced, Unique, Hands-On Clinical Experience

A comprehensive, scenario-based trauma workshop designed to elevate participants from knowledge to confident real-world decision-making.

Station 1: Avulsion Mastery Station

Assess · Replant · Stabilize · Splint

Mini-Lecture

- Avulsion protocol
- Extra-oral dry time & storage media
- Mature vs immature teeth management
- Socket evaluation after laceration
- Medication considerations

Hands-On Practice

- Replanting an avulsed tooth on models

Station 2: Splinting Mastery Lab

Mini-Lecture

- Types of splints: flexible vs rigid
- Indications and splinting duration
- Common splinting errors

Hands-On Practice

Participants practice:

- Flexible splinting for avulsion & luxation
- Fiber splints (Demo)
- Wire / fishing line splints
- Occlusion checking & adjustment post-splinting

Station 3: Decoronation Masterclass

Mini-Lecture

- Indications for decoronation
- Ankylosis in growing patients
- Why decoronation preserves alveolar bone
- Timing & case selection
- Step-by-step minimally invasive technique

Hands-On Practice

- Decoronation on typodonts

Station 4: Fragment Reattachment & Composite Build-Up Mastery

Mini-Lecture

- Fragment reattachment protocols
- Indications vs contraindications
- Beveling, internal groove & bonding strategies
- Material selection (adhesives & composites)
- Esthetics, strength & long-term outcomes

Hands-On Practice

Participants perform:

- Fragment reattachment on fractured incisors
- Composite build-up for fractured anterior teeth

Station 5: Apical Plug & Regenerative Endodontics in Traumatized Immature Teeth

Mini-Lecture

Clinical Decision-Making in Immature Traumatized Teeth

Topics Covered:

- Apical plug vs Regeneration – when and why?
- Indications & contraindications:
- Apical Plug Protocol

- Regenerative Endodontic Procedures (REP)
- Expected outcomes & realistic prognosis
- Common clinical mistakes and how to avoid them

Hands-On Practice

- A. Apical Plug Hands-On
- B. Regenerative Endodontics Simulation

Station 6: Advanced Management of Traumatized Primary Anterior Teeth

Mini-Lecture

Contemporary Trauma Management in Primary Anterior Teeth

Topics Covered:

- Restorative decision-making post-trauma
 - When zirconia is the treatment of choice

Hands-On Practice

Pediatric Zirconia Crown Placement After Trauma

Course Outcome

By the end of this Trauma Lab: Mastering Real-World Dental Emergencies from Primary to Permanent Dentition, participants will be able to:

- 1- Make rapid, confident trauma decisions

- 2- Replant and splint avulsed teeth correctly
- 3- Perform decoronation safely in growing patients
- 4- Restore fractured teeth using fragment reattachment & composite build-ups
- 5- Preserve immature traumatized teeth using apical plug and regenerative techniques
- 6- Manage trauma to primary anterior teeth confidently, including pulp therapy decision-making, use of modern obturation materials, and restorative rehabilitation with pediatric zirconia crowns