

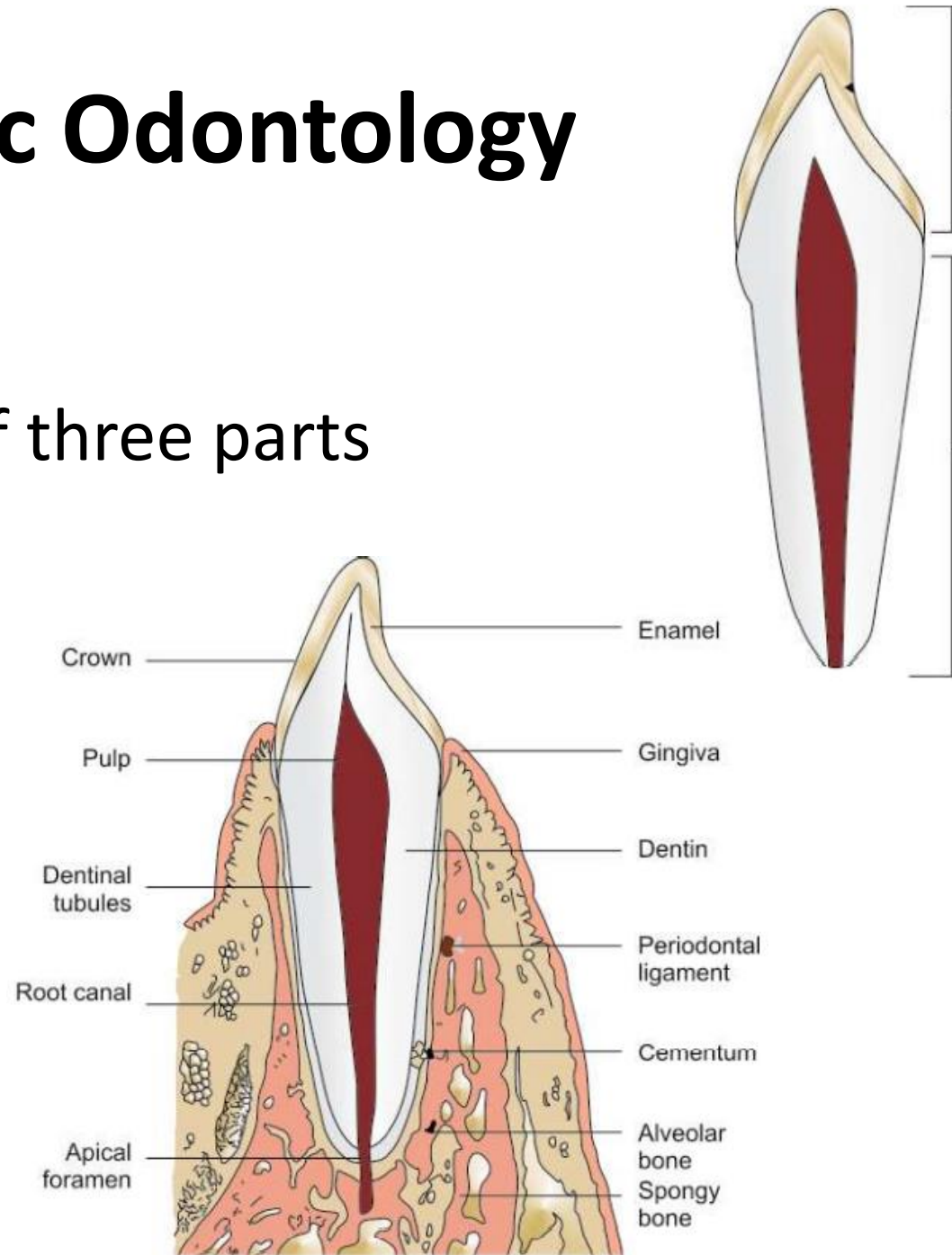
Learning Objectives

By the end of this session the learners will be able to:

- Describe the application of odontology in forensic medicine

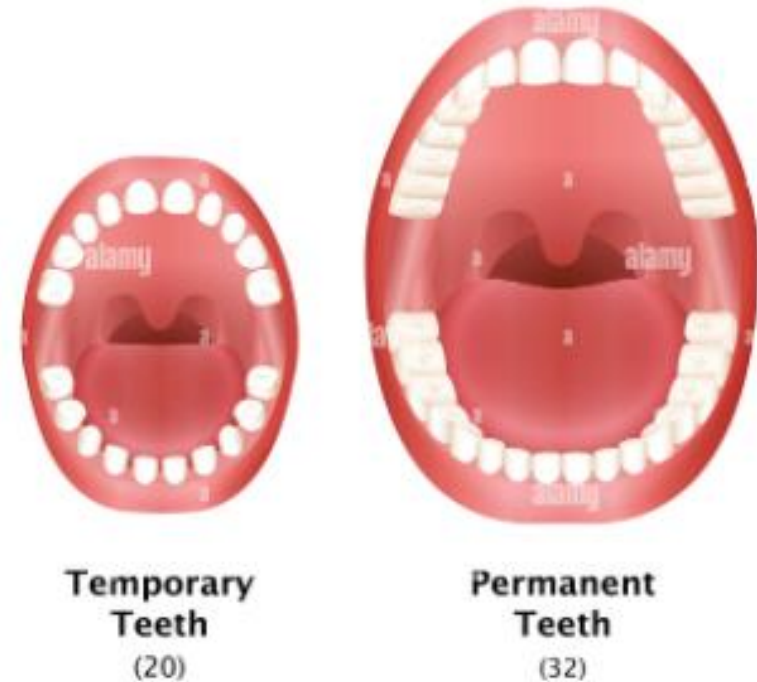
Forensic Odontology

- Diphyodont
- A tooth consists of three parts
 - Crown
 - Root
 - Neck
- Structure of tooth
- Types



Forensic Odontology

- **Two sets of teeth**
 - Temporary
 - Permanent
- **Differences b/w two sets**
 - No. premolars, size, neck, ridge,
 - Edges, molars, replaced by, X-ray
- **Temporary dentition**
 - Intrauterine
 - Beginning
 - At various ages
 - Mixed dentition period





Forensic Odontology

- **Permanent dentition**

- Beginning
- Molars
- Calcification of roots

- **Time of eruption**

- Temporary
- Permanent
- Spacing of jaw

- Superadded teeth

- Successional teeth

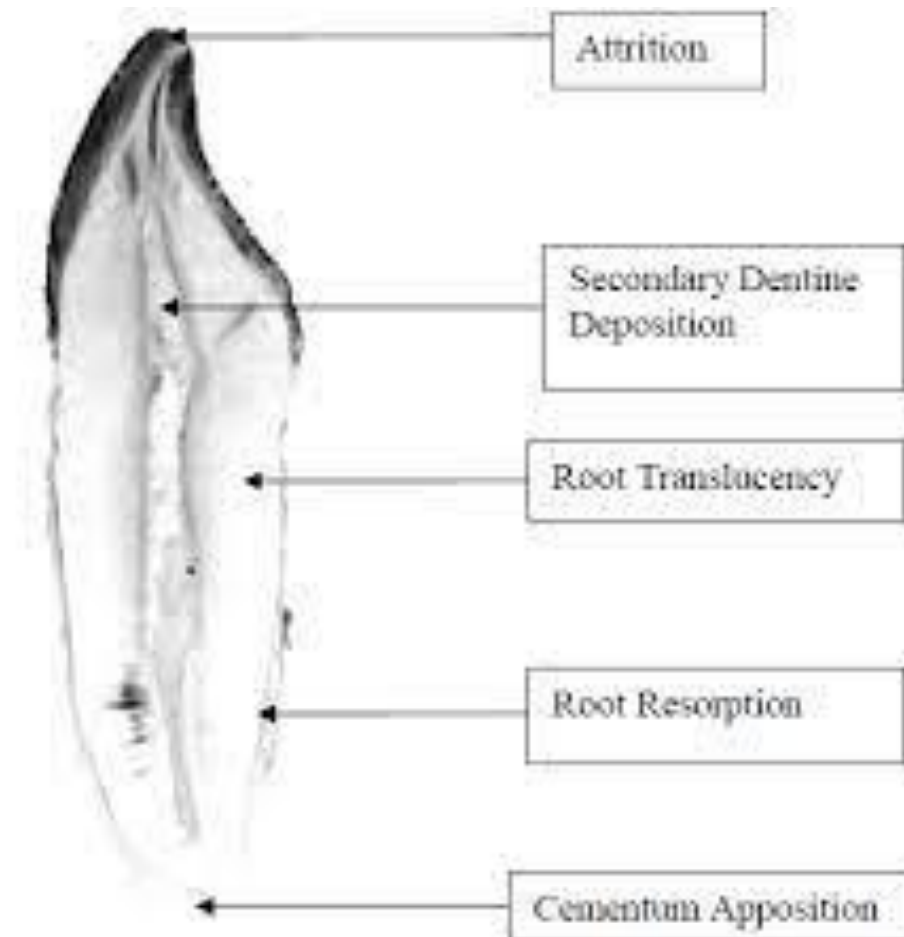
- Impacted tooth



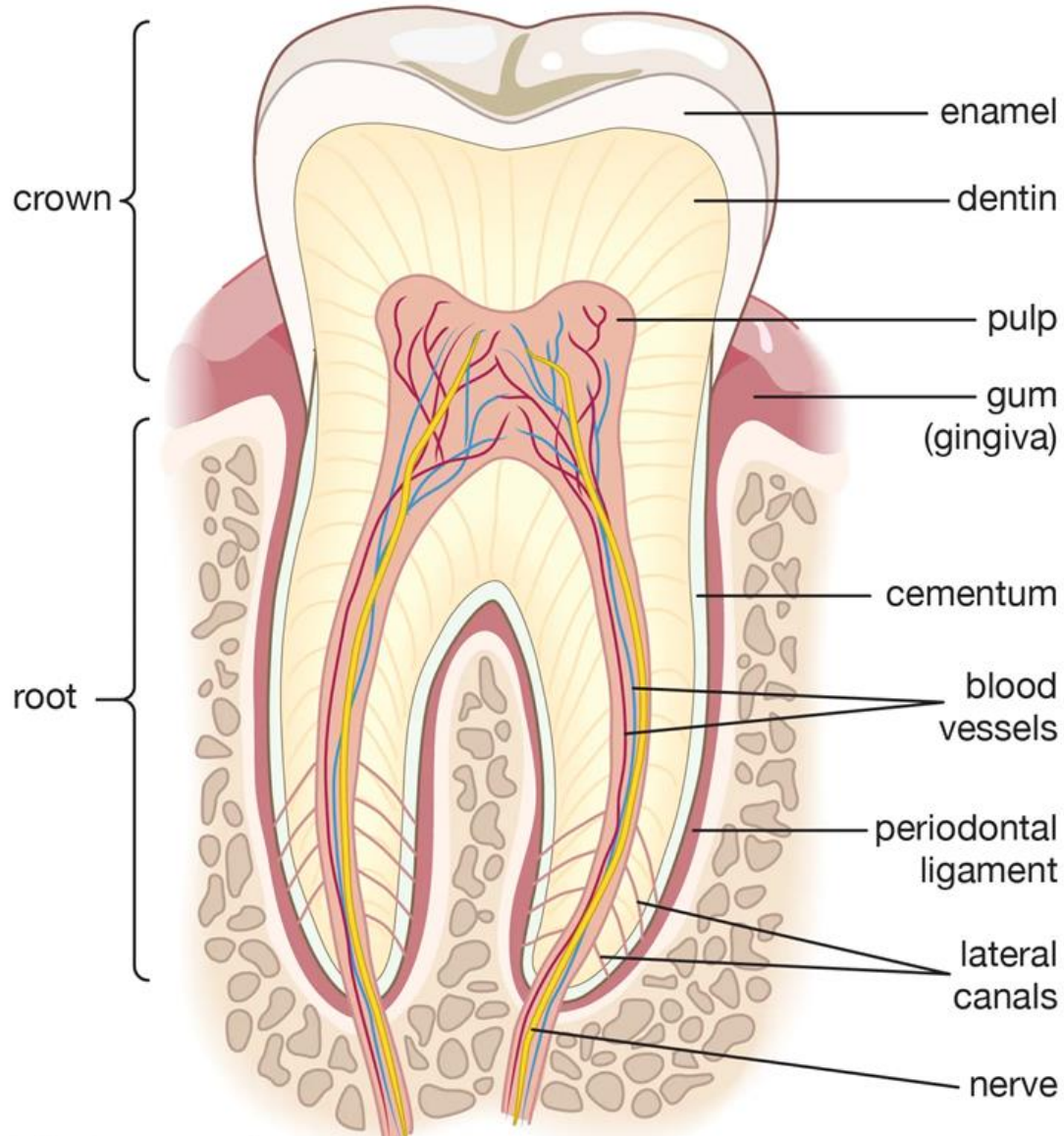
Forensic Odontology

- **Gustafson's method**

- Attrition
- Periodontosis
- Secondary dentin
- Cementum apposition
- Root resorption
- Root transparency



Forensic Odontology



Forensic Odontology

- **No. of permanent teeth & age in years**
 - 5 years , 6 years
 - 12 years, 17-25 years
- **Estimation of age from teeth**
 - Chemical method
 - Nitrogen content of enamel
 - Carbonate content
 - Cu, Se and Fe
 - Radiocarbon dating

Forensic Odontology

- **Information from Teeth**
 - Age estimation
 - Sex determination
 - Race
 - Carabelli's cusp
 - Enamel pearls
 - Social status
 - Occupation



Forensic Odontology



Bite Marks

- Assaults
- Sexual assault
- Sporting events
- Child abuse
- Police custody
- Nature of bite marks



Bite Marks

- **Bite mark investigation**
 - Photograph
 - Swabbing of saliva:
 - Impression of bite mark
 - Skin



Forensic Odontology

