Dens in Dente

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What is Dens in Dente?

- Also known as Dens invaginatus or Dilated Composite Odontome
- "Tooth within a tooth"
- Developmental anomaly due to the deepening or invagination of the enamel into the dental papilla before calcification of the dental tissue.
- Common in males than females.

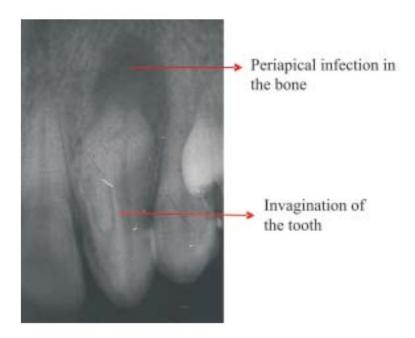
Possible Causes:

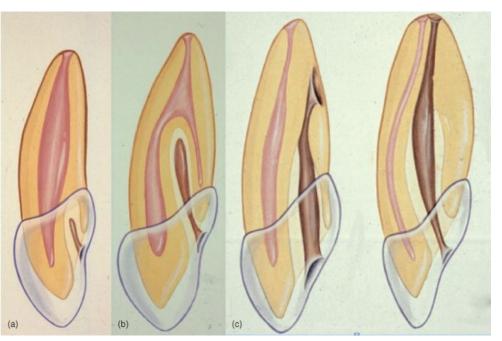
- Controversial and unclear. Several theories proposed.
 - Focal failure of growth of internal enamel epithelium while surrounding normal epithelium continues to proliferate
 - Rapid and aggressive proliferation of part of internal enamel epithelium invading dental papilla
 - Distortion of enamel organ during tooth development
- Genetic Factor
- Infolding of enamel into tooth structure during the early stages of bud formation

Normal Lateral Incisor:



Radiographic appearance of dens in dente:

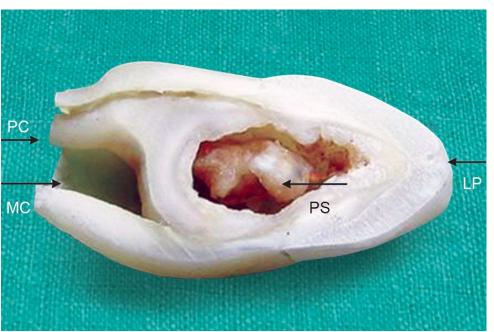












How the Dens in Dente Impacts the Patient Dentally:

- Tooth affected: mostly permanent maxillary lateral incisors
- Pain
- Non-eruption of tooth
- Higher risk of developing caries
- Can cause:
 - Abscess formation
 - Displacement of dental structures

Role of Dental Team:

- Dens in dente is detected on radiograph
- Treatments:
 - Preventive sealing of invagination
 - Root canal treatment
 - Endodontic apical surgery
 - Intentional replantation
 - Extraction

Sources:

- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5026114/
- https://www.sriramachandra.edu.in/university/pdf/research/journals/jan 2007/book 10.pdf
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3961942/