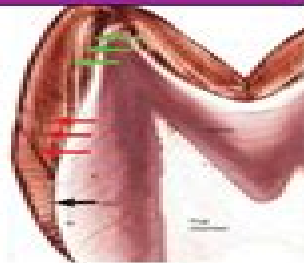


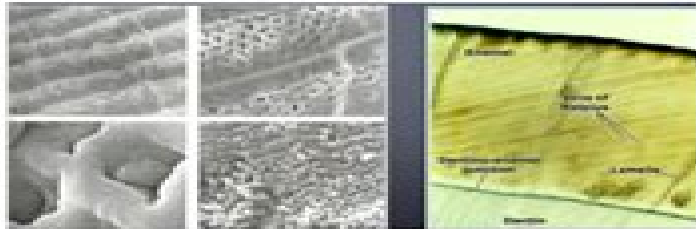
ENAMEL

Normal enamel is composed

- Enamel prisms (basic unit)
- Prism borders
- Striations
- Incremental growth band (Striae of Retzius)
- Surface zone



The changes in these structures determine the lesion



ENAMEL CARIES

Common sites

- Smooth surfaces (particular below contact points)
- Pits and fissures
- Recurrent around the edges of existing restorations

Lesions on smooth surfaces differ slightly from those in pits/fissures pre-cavitation.

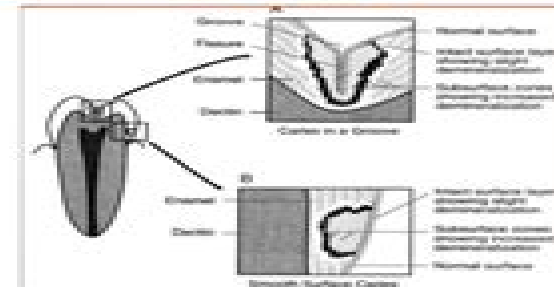
LESION FORMATION

EVENT	TIME PERIOD
Incipient caries to clinical caries	18+ 6 months
Peak rate for caries incidence	2-4 years after eruption
Poor oral hygiene, excess sucrose	3 weeks
Radiation induced xerostomia	3 months
Occlusal caries	Less time than smooth surface

INITIAL ENAMEL LESION (SEM)



ENAMEL CARIES



INITIAL CARIES LESION

Fig. 3. (A) Initial carious lesion on occlusal surface. (B) Histological section through the lesion. The acid resistant and fluoride rich superficial layer is clearly visible. (C) Dental occlusal caries with cavitation and shadow. (D) Histological section through the lesion

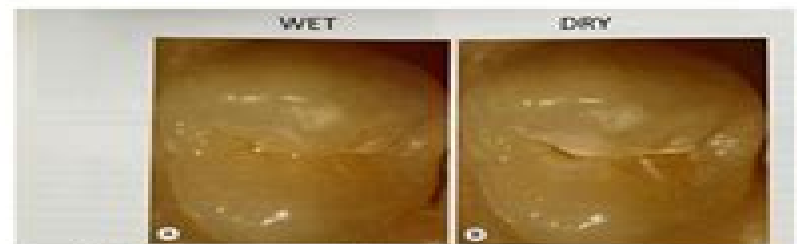
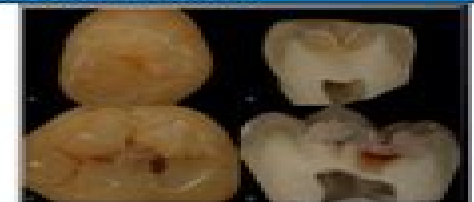


Figure 3.7 Initial spot lesion at entrance to the fissure (A) is seen more clearly when dry (B).

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