



RAMA
UNIVERSITY

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FACULTY OF NURSING

DISORDERS OF TEETH



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DISORDERS OF ERRUPTION & SHEDDING

- Premature eruption :
It is the movement made by tooth to gain the position in occlusal plane before the expected time

Natal teeth :

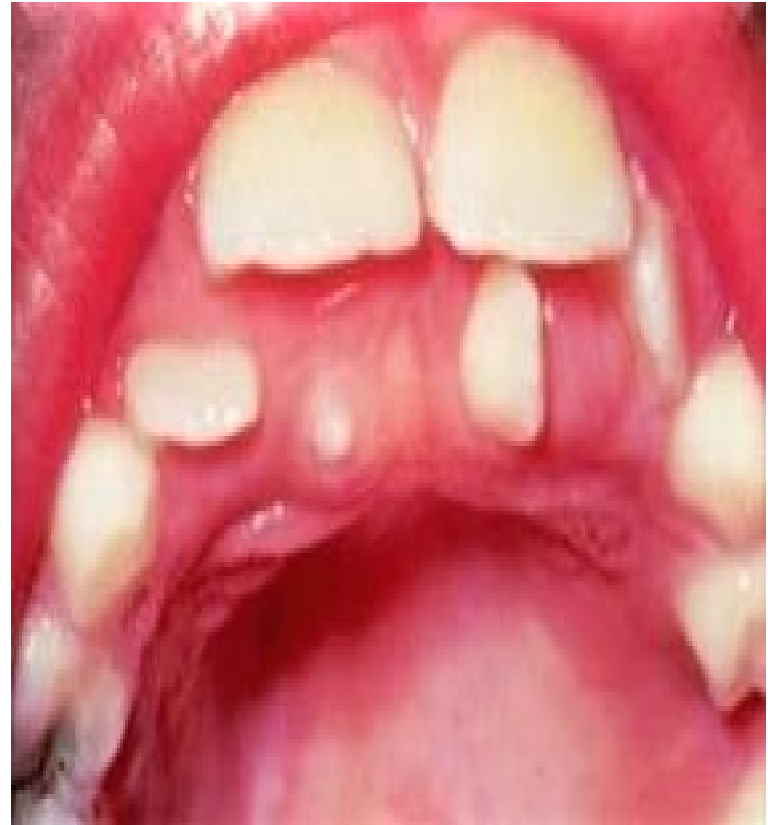
Teeth erupted at birth.

Neonatal teeth :

teeth which erupted within first 30 days of life.



- Retarded eruption :
it is the phenomena in which the processes such as calcification, growth and tooth movement to the occlusal plane occurs later than the normal as a result of some systemic metabolic dysfunction.



- } down syndrome
- } traumatic displacement of tooth germs.
- } nutritional deficiencies.

Premature loss :

- } dental caries
- } chronic periodontal diseases
- } hypophosphatasia
- } hereditary palmar plantar hyperkeratosis

(a heterogenous group of disorders characterized by excessive epidermal thickening of palm and soles)



Early loss of primary canine

Early loss of primary canine

- Persistence of deciduous teeth :

This occurs when deciduous teeth are Not shed at the expected time.

- 1) failure of eruption of permanent successor
- 1) cleidocranial dysplasia.



- **Impaction of teeth:**

The teeth which remains unerupted ,or only partly erupted ,in the jaw beyond the time when it should normally be fully erupted.

- } third molars,
- } mandibular premolars,
- } maxillary canines





Impacted Wisdom Teeth



- Local causes of impaction :
- abnormal position of tooth germ,
- lack of space for teeth in the jaws
- cleidocranial dysplasia

- Reimpaction of teeth :

-) in this the previously erupted tooth becomes submerged in the tissues .

-) deciduous 2nd molar

-) deficient development of alveolar process.

-) root →ankylosed , followed by lack of growth of alveolar process.

NON BACTERIAL LOSS OF TOOTH SUBSTANCE

- Tooth wear

1. attrition

2. abrasion

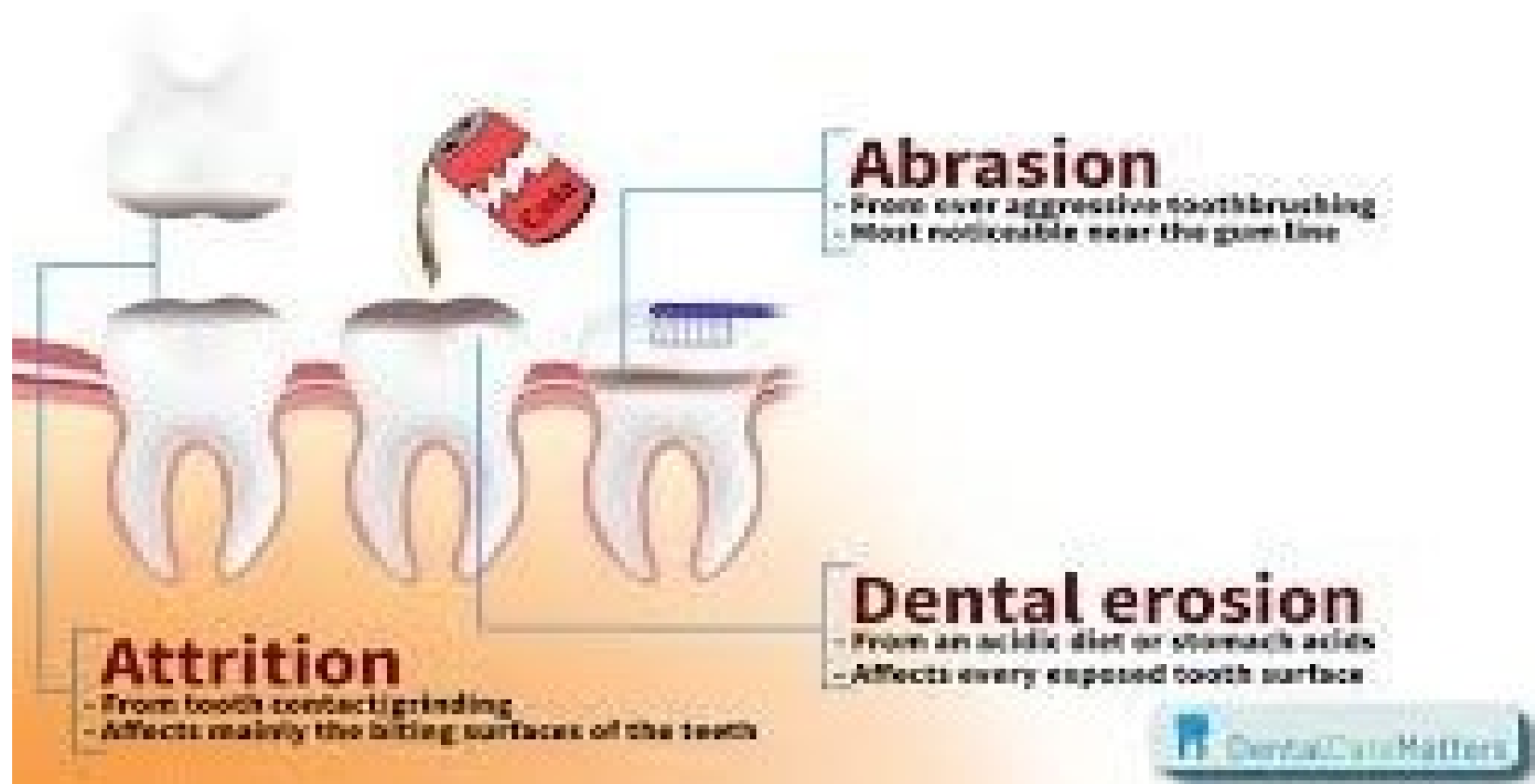
3. erosion

Resorption :

- 1 .internal

2. external

THE THREE CAUSES OF TOOTH WEAR



- Attrition :

this is a loss of tooth substance as a result of tooth to tooth contact.

it may be

physiological \approx tooth to tooth contact

pathological \approx bruxsim, abnormal

tooth structure



- Abrasion :

this is the pathological wearing away of tooth substance by the friction of a foreign body independent of occlusion .

- tooth brush abrasion
- habitual abrasion
- occupational abrasion
- ritual abrasion



- Erosion :

this is the loss of the tooth substance by a chemical process that does not involve known bacterial action.

- dietary erosion
- occupational erosion
- regurgitation of stomach contents or persistent vomiting



- **Resorption :**

the natural shedding of deciduous teeth follows the progressive resorption of roots by cells resembling osteoclasts.

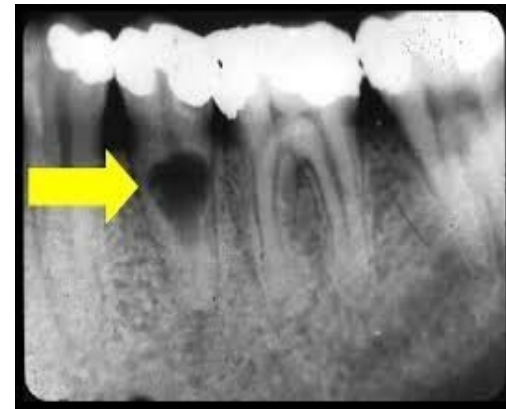
1. external resorption

- a. inflammatory resorption

- b. pressure /mechanical resorption

- c. idiopathic resorption

2. internal resorption



- **EXTERNAL RESORPTION:**
- microscopic surface resorption (transient ,reversible)
- inflammatory resorption \approx periapical inflammation , reimplanted /transplanted teeth
- pressure resorption \approx orthodontics,possibly tumors/cysts

- idiopathic resorption \approx burrowing (cervical)resorption
- INTERNAL RESORPTION :

It is the pathological resorption starting from the pulpal surface, is usually associated with pulpitis, and allows the loss of odontoblast and predentin.

THANK YOU