

**Developmental disturbances in teeth are of 5 types based on the feature of the tooth they affect:**

- 1- Size of Teeth
- 2- Shape of Teeth
- 3- Number of Teeth
- 4- Structure of Teeth
- 5- Growth (Eruption) of Teeth

## **1- Size of Teeth:**

- 1- Microdontia
- 2- Macrodontia

## **2- Shape of Teeth:**

### **1- Germination**

### **2- Fusion**

## **3- Number of Teeth:**

1. Hypodontia
2. Anodontia
3. Supernumerary Teeth

## **4- Structure of Teeth:**

1. Amelogenesis Imperfecta
2. Dentinogenesis Imperfecta

## 5-Growth (or) Eruption of Teeth:

1. Premature Eruption
2. Delayed Eruption.

### 1-Size of teeth

**A-Microdontia:** It is defined as the size of teeth which is smaller than normal (or) outside the normal range of teeth size.

Microdontia is divided into 3 types:

- 1-True Generalized
- 2-Relatively Generalized
- 3-Involving a Single Tooth

#### 1-True Generalized:

All the teeth are smaller than normal.

Teeth are well formed but small in size.

*Incidence:* Very Rare.

**2-Relative Generalized type:** Teeth are normal or slightly smaller than normal teeth within the range of size of teeth, but the jaw size is slightly larger than the normal giving an Impression of Microdontia.

*Etiology:* Inheritance of Jaw size from one parent and the teeth from another parent may lead to this condition.

**3-Involving a Single Tooth:** It is also called as localized Microdontia, affecting commonly the Maxillary lateral incisor and the Third Molar.

**Aetiology:** 1-Supernumerary teeth 2-Facial Hemi atrophy.



**Common Form in laterals:** The mesial and distal surfaces converge to the top forming a cone shaped crown with the roots being shorter than normal.

## 2-Shape of Teeth:

1. **Germination:** partial development of two teeth from single



tooth bud following incomplete division.

2. **Fusion:** is the union between dentin and or enamel of two or more separate developing teeth



## 3-Number of Teeth:

1. **Hypodontia:** congenital absence of teeth (when there is missing 6teeth or fewer) more common in permanent

2. **Anodontia:** rare genetic disorder congenital absence of all primary or permanent teeth associated with skin and nerve syndrome

**Treatment** replacement of missing teeth by denture or dental implant

## **Common missing teeth :**

- 1- wisdom teeth
- 2- upper lateral incisor
- 3- lower second premolar

## **4-Structure of Teeth:**

**Amelogenesis Imperfecta** :inherited developmental abnormalities classified into:

- 1-hypominerilized type
- 2-hypoplastic type

**Dentinogenesis Imperfecta** :autosomal dominant disorder affected both primary and permanent teeth ,teeth may have normal color following they become translucent and finally gray or brownish with bluish reflection from enamel, although enamel structure are normal it is rapidly attrition and lost