CERTIFICATE OF APPRECIATION

SMILE MASTERY SOLUTIONS

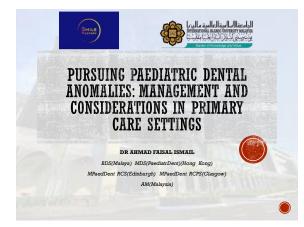
HEREBY THANKS

DR AHMAD FAISAL ISMAIL

FOR PRESENTING A WEBINAR TITLED

PURSUING PAEDIATRIC DENTAL ANOMALIES

ON WEDNESDAY, THE 27TH OF JANUARY 2021







INTRODUCTION

 Anomalies of tooth development are relatively common and may occur as an isolated condition or in association with other anomalies/syndromes

Disorders of the tooth development can be due to:

- inheritance (genetic) - generalized

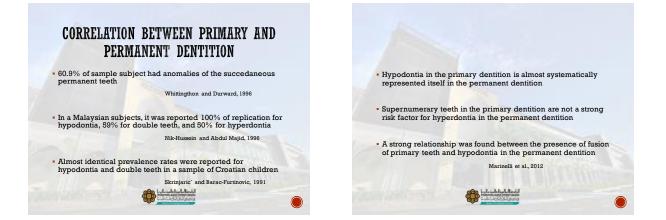
- acquired (external exposure) - generalized/localized

 Primary dentition begins to form at approximately six weeks in utero and the permanent dentition continues through late adolescence.





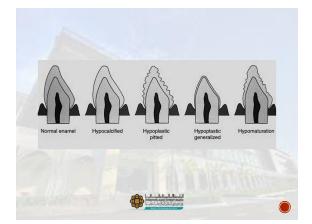
| Developmental stages - dental tissue | MANAGING COMMON DENTAL ANOMALIES IN CHILDREN |
|--|--|
| enamel (amelogenesis imperfecta) dentine (dentinogenesis imperfecta, dentinal dysplasia) tooth size | Early diagnosis of dental anomalies should allow for more comprehensive treatment planning, proper prognosis and less extensive interception |
| - smaller (microdontia) - larger (macrodontia) - morphology - double teeth (fusion/gemination) - dens evaqinatus/invaqinatus | Previous reports in the literature suggest that the presence of a dental anomaly in the primary dentition may represent a risk factor for the recurrence of the anomaly in the permanent dentition |
| - number of teeth - reduce number (hypodontia) - increase number (hypodontia/supernumerary) | However, the prevalence rate of the recurrence as well as the type of dental anomaly in the permanent dentition may vary |





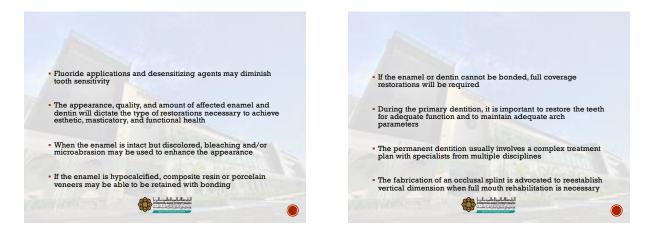






PRINCIPLE MANAGEMENT OF AI

- Clinicians treating children and adolescents with AI must address the clinical and emotional demands of these disorders with sensitivity
- It is important to establish good rapport with the child and family early
- Early identification and preventive interventions are critical
- Regular periodic examinations can identify teeth needing care
 as they erupt





 premolars and permanent canines → minimal intervention is the ideal treatment plan

> الرامعة الساسية العالمية ماليريا Antiperiority access for page 10

- full coronal coverage restoration















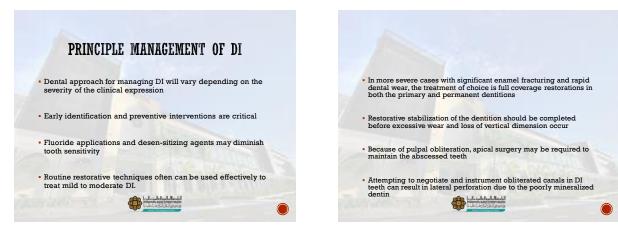








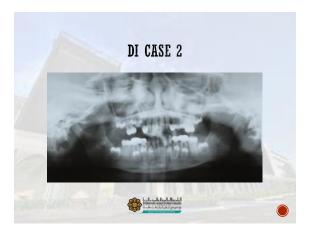














DI WITH OSTEOGENESIS IMPERFECTA

- Type I DI (Shields 1973)
- Radiographically, the teeth have short, constricted roots and dentine hypertrophy leading to pulpal obliteration
- The teeth of both dentitions are typically amber and translucent
 and show significant attrition
- OI prone to fracture
 blue sclera

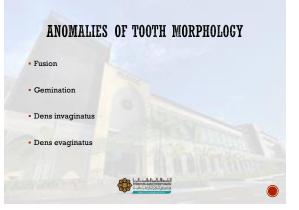


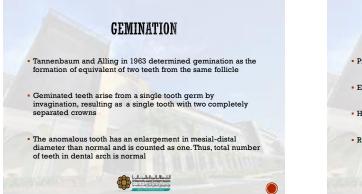




















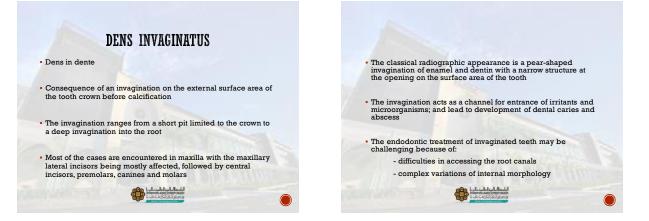




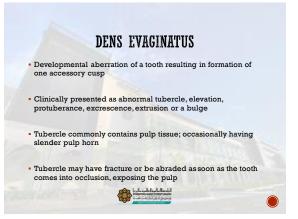






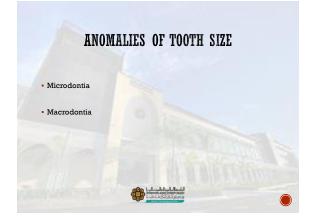






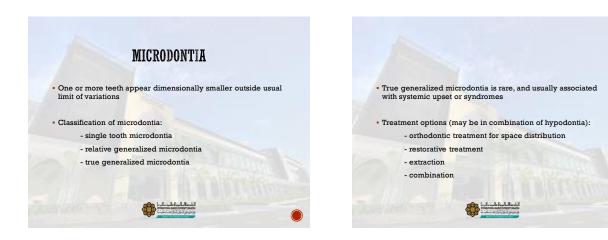


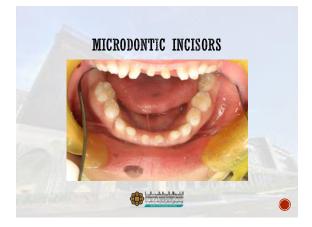


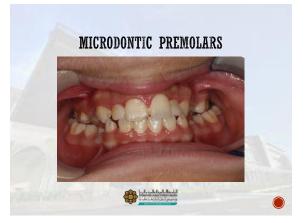


MACRODONTIA

- Refers to teeth that appear larger than normal size
- Reported prevalence is around 0.03-1.9%
- Isolated macrodontia can result from twinning abnormalities during proliferation phase
- Generalized macrodontia usually associated with Klinefelter syndrome and pituitary gigantism

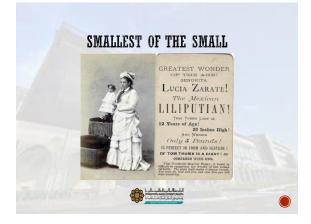




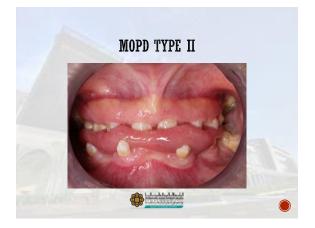














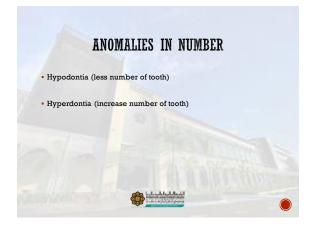


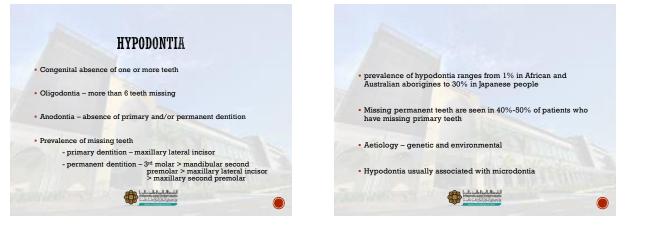




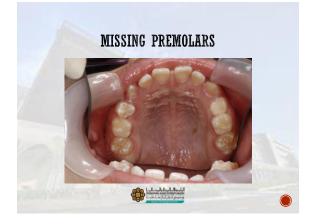






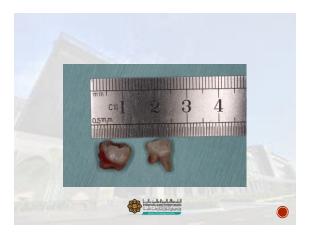


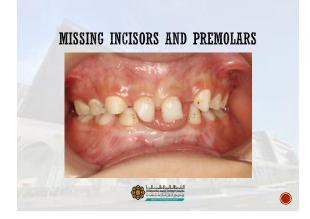






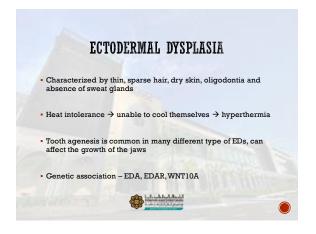




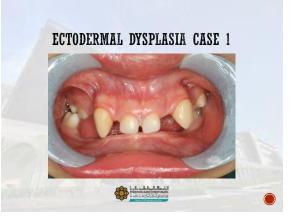






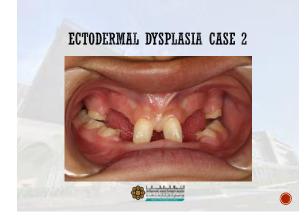


















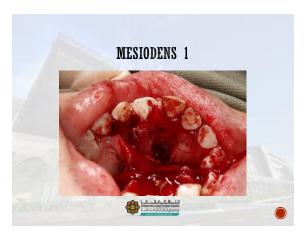
SUPERNUMERARY TOOTH • Mesiodens is the most common supernumerary tooth, with a reported prevalence between 0.15 to 1.9 % • Most common sequelae of mesiodentes are impaction (26–52 %) and ectopic eruption (28–82 %) of the unerupted permanent central incisors • Patients with multiple mesiodentes typically have an associated craniofacial disorder; such as Gardner syndrome, cleidocranial dysplasia (CCD), or cleft-lip and/or cleft palate

RECOMMENDATION

- Sufficient arch space has to be ensured or orthodontically created
- Early surgical extraction of a mesiodens or mesiodentes (ideally before 7 years of age)
- Re-evaluation after 2–3 months to assess for any natural eruption of the permanent tooth
- Application of orthodontic traction in the event of non-eruption











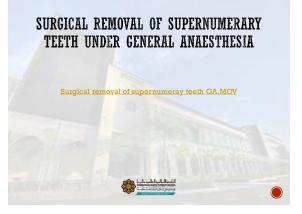


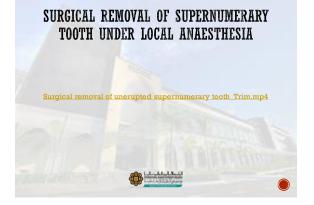






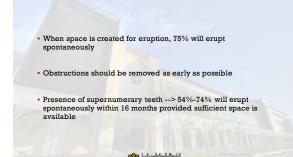




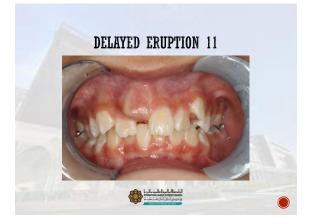














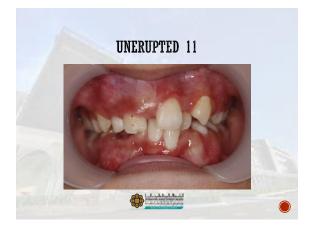








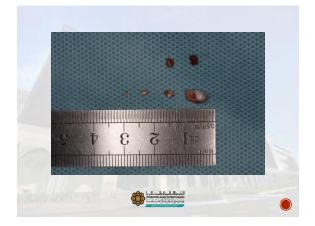




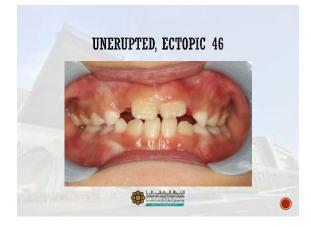




















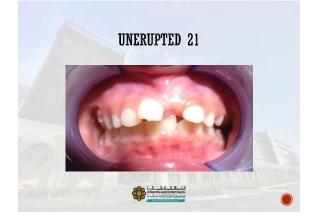




















SELF-REFLECTION QUESTIONS

- Do I have sound knowledge/understanding of the anomaly?
- Is there any underlying conditions?
- Does patient and parents have the favorable behavior?
- Will patient benefit/require comprehensive management?
- Am I comfortable to do the procedure?
- Does my clinic have the necessary equipment?





