Evidence Based Dentistry Rounds Pediatrics

Group 7B-1 11/28/2020

Rounds Team

- Group Leader: Dr. Rossi
- Specialty Leader: Dr. Hodgeson
- Project Team Leader: D4 Jesus Echezarreta
- Project Team Participants: Alex
 Orzepowski; Omar Karim; Gabriella Andrie

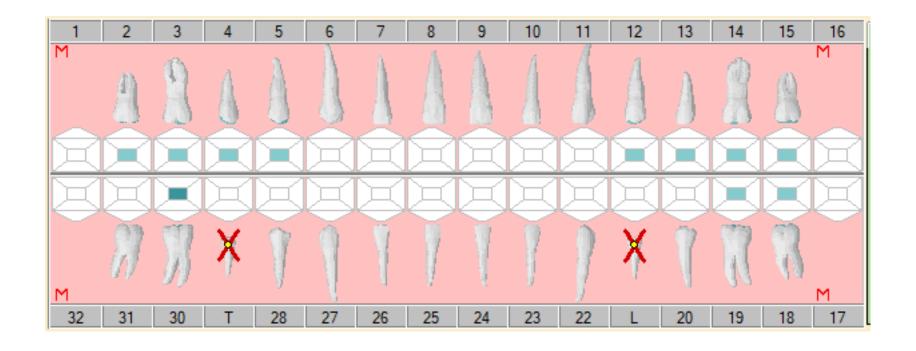
Patient

- Age
- Gender- Male
- Ethnicity-AA
- Chief Complaint
- Additional pertinent information

Medical History

- Current & past:
 - Conditions- Asthma
 - Medications- Albuterol PRN

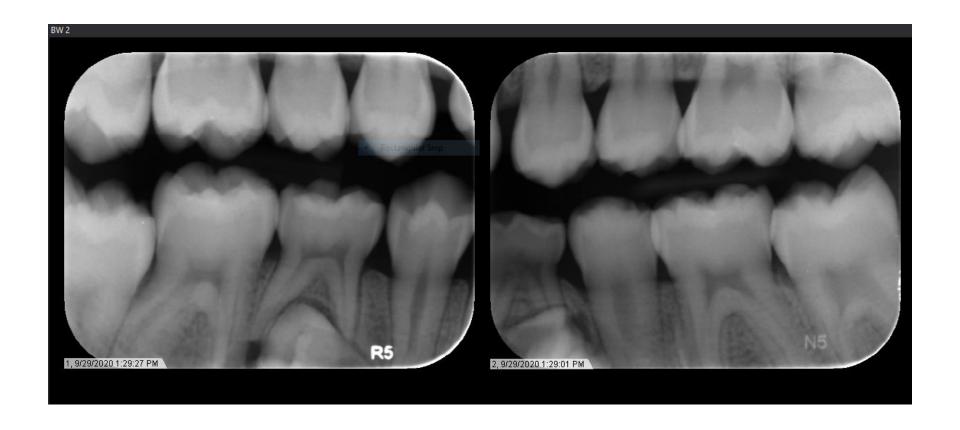
Dental History



Radiographs

 Panoramic image not yet taken but is necessary for comprehensive evaluation

Radiographs



Template Revised 9/10/2020

BWX



Template Revised 9/10/2020

Radiographic Findings

- 1 slide summarizing pertinent radiologic findings
- Illustrate with radiograph and/or other graphics as needed

Clinical Findings

- 1 slide describing all clinical findings
- Clinical photos 1-2 slides
 - Relevant extraoral &/or intra-oral views
- Photos of casts 1-2 slides
 - Mounted on articulator
 - Same views as intraoral photos
 - Occlusal maxilla, mandible
 - Open, closed
 - Anterior, lateral
 - In occlusion, excursions
 - Show excursions from posterior to molar view

Specific Findings

- List findings specific to the Rounds discussion, 1 slide
- To enhance viewing, include close-ups of clinical photos, cast photos, radiographs, add slides as needed

Periodontal Charting

- Ensure that the periodontal charting is readable.
- Highlight, surround, point to, or zoom in on areas of interest.

zoom in

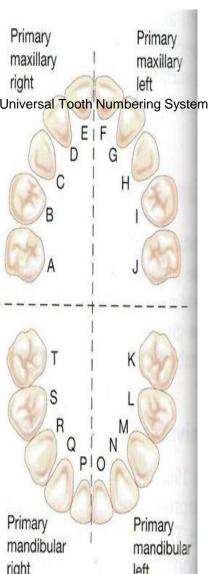
Diagnosis

Diagnosis pertaining to Rounds discussion,
 slide

Problem List

- 1 slide
- Include graphics as needed

How are Teeth Numbered?



Primary Dentition:

Teeth are labeled using letters starting in the upper right quadrant, ending in the lower right quadrant (A to T)

Supernumerary Teeth

An S is added after the the letter of the tooth that is adjacent to the extra tooth.

Ex: DS

Permanent Dentition:

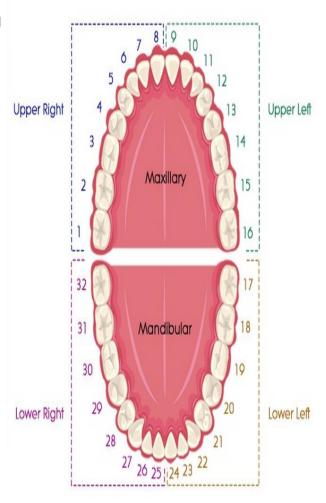
Teeth are labeled using numbers starting in the upper right quadrant, ending in the lower right quadrant (1-32)

Supernumerary Teeth

A value of 50 is added to the number of the tooth that is adjacent to the extra tooth.

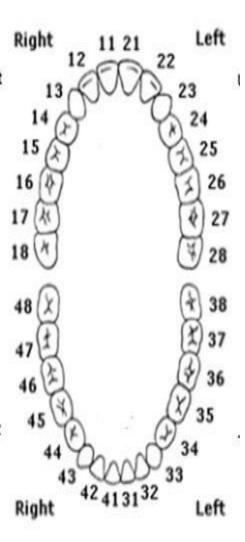
Ex: 68 (Tooth 18+50)

Universal Tooth Numbering System



Different Numbering Systems

FDI Notation



Permanent Dentition

Associates specific teeth by two digits. The first digit relates to the quadrant (1-4). The second digit relates to tooth position in relation to the midline. 1 being closest to midline - 8 being farthest from midline (third molars).

Primary Dentition

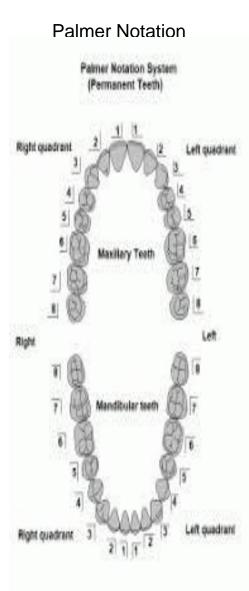
Uses the same method, only the digit related to quadrants changes from 1-4 to 5-8. The second digit also only goes up to 5, not 8.

Permanent Dentition

Distinguishes teeth by labeling the quadrant, then teeth are numbered (1-8) going from the midline to posterior teeth (third molars).

Primary Dentition

Uses the same method, only instead of numbers, letters A-E are used.



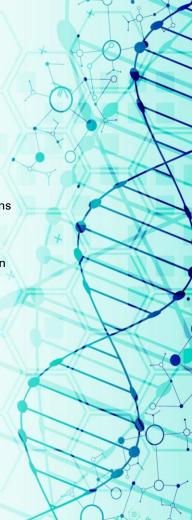
WHAT ARE SUPERNUMERARY TEETH?

- •**DEFINITION**-SUPERNUMERARY TEETH ARE DEFINED AS ANY ODONTOGENIC STRUCTURE FORMED FROM THE TOOTH GERM THAT IS IN EXCESS OF USUAL IN ANY REGION OF THE DENTAL ARCH.
- -MAY BE SINGLE OR MULTIPLE
- -- UNILATERAL OR BILATERAL
- -- MORE COMMON IN MALES (2:1)
- ■-1-4% OF THE POPULATION
- **STRONG LINK TO GENETIC SYNDROMES**
- -MORE COMMON IN PERMANENT DENTITION
- --PERMANENT MAXILLARY CENTRAL INCISORS (MESIODENS) ARE THE MOST COMMON FOLLOWED BY FOURTH MOLARS IN BOTH ARCHES (REFERRED TO AS DISTODENS)
- --CAUSE COMPLICATIONS SUCH AS CROWDING OR CYST FORMATION, DELAYED ERUPTION, DISCOMFORT, DIFFICULTY CHEWING, AS WELL AS IMPACTED TEETH.

Other times there are...

Missing teeth

- -referred to as hypodontia, tooth agenesis, or congenitally missing teeth.
- -developmental failure of 6 or fewer teeth
- -most common dentofacial malformation in humans
- Most common are upper lateral incisors, wisdom teeth, and second premolars.
- More serious consequences than supernumerary teeth because disrupts function of the dentition to a greater extent than supernumerary teeth do.
- Treatment and restoration of dentition is more complicated
 - -malocclusion
 - -shifting
 - -esthetics
 - -jaw support



CAUSES & TREATMENT

The cause of supernumerary teeth isn't entirely clear but has been strongly linked to genetic factors. These factors include several autosomal dominant conditions such as cleidocranial dysplasia, Ehler-Danlos syndrome, Cleft lip and palate, and Gardner syndrome.

-Other causes that are hypothesized deal with environmental factors such as hyperactivity of the dental lamina during tooth development.

Treatment:

- -early detection is the most important
- -extraction for cosmetic and functional problems

D₃ PICO

Clinical Question:

PICO Format

P:

C:

0:

PICO Formatted Question

Clinical Bottom Line

Search Background

- Date(s) of Search:
- Database(s) Used:
- Search Strategy/Keywords:

Search Background

MESH terms used:

Article 1 Citation, Introduction

Citation: Authors, Title, Journal, Date,
 Volume, Page Numbers.

- Study Design:
- Study Need / Purpose:

Article 1 Synopsis

- 1-2 slides
- Method
- Results
- Conclusions
- Limitations

Article 1 Selection

- 1 slide
- Reason for selection
- Applicability to your patient
- Implications

Article 2 Citation, Introduction

Citation: Authors, Title, Journal, Date,
 Volume, Page Numbers.

- Study Design:
- Study Need / Purpose:

Article 2 Synopsis

- 1-2 slides
- Method
- Results
- Conclusions
- Limitations

Article 2 Selection

- 1 slide
- Reason for selection
- Applicability to your patient
- Implications

Levels of Evidence

Strength of Recommendation Taxonomy (SORT)

	A – Consistent, good quality patient
	oriented evidence
	B – Inconsistent or limited quality patient
	oriented evidence
	C – Consensus, disease oriented evidence,
	usual practice, expert opinion, or case
	series for studies of diagnosis, treatment,
	prevention, or screening

Double click table to activate check-boxes

Conclusions: D3

How does the evidence apply to this patient?

- Consider/weigh:
 - Literature
 - Group Leader & Specialist experience
 - Patient circumstances & preferences

Based on the above considerations, how will you advise your D4?

Conclusions: D4

Based on your D3's bottom line recommendations, how will you *advise* your patient?

How will you *help* your patient?

Discussion Questions

THANKYOU

