



PEDIATRIC DENTISTRY DISCIPLINE
UMF „VICTOR BABES” TIMISOARA

PRACTICAL CLASS 6.1

COMPLEMENTARY EXAMINATIONS IN PAEDIATRIC DENTISTRY

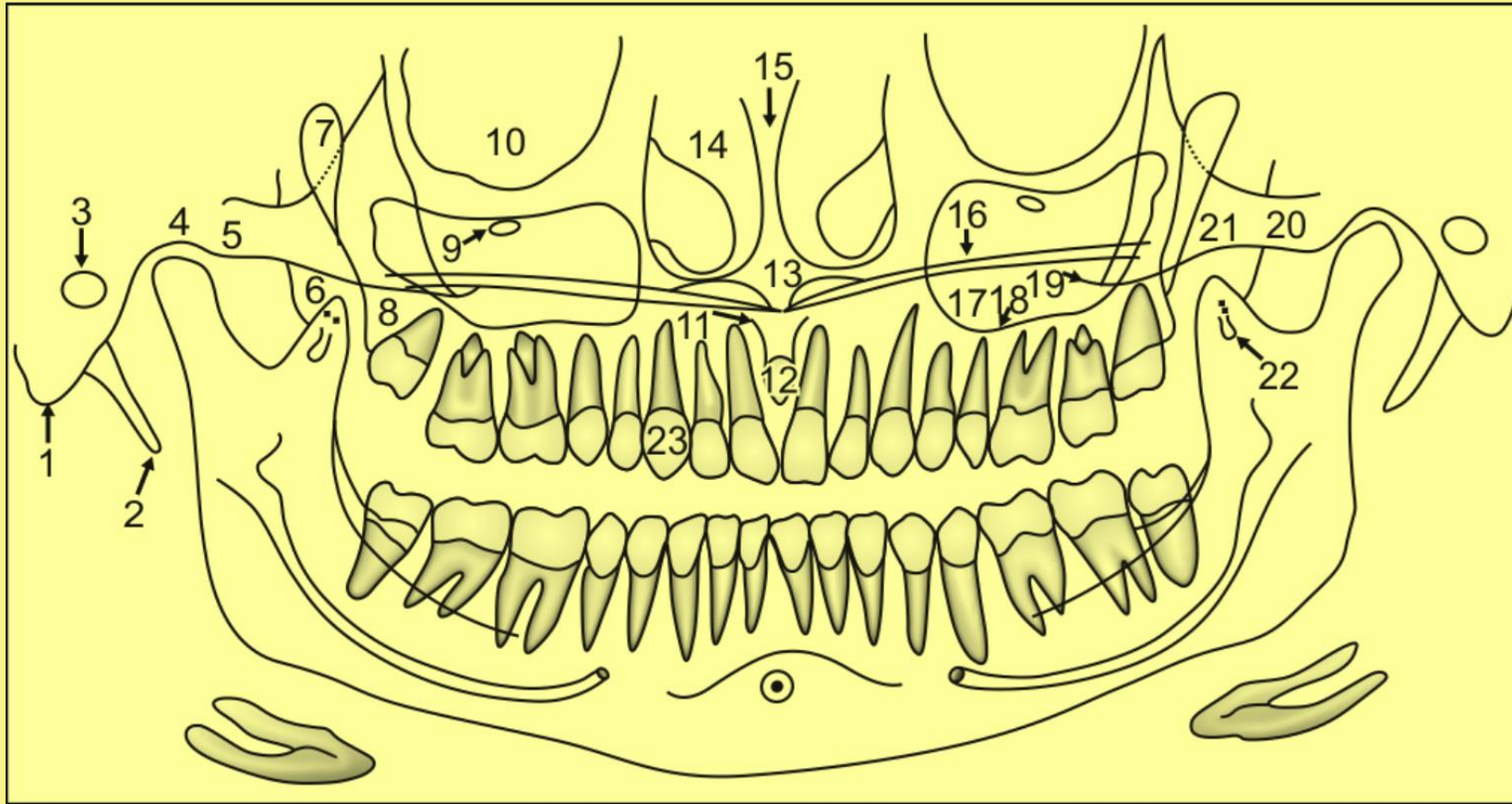
RADIOGRAPHIC EXAMINATION



Panoramic Radiography

ORTOPANTOMOGRAPHY (OPG)

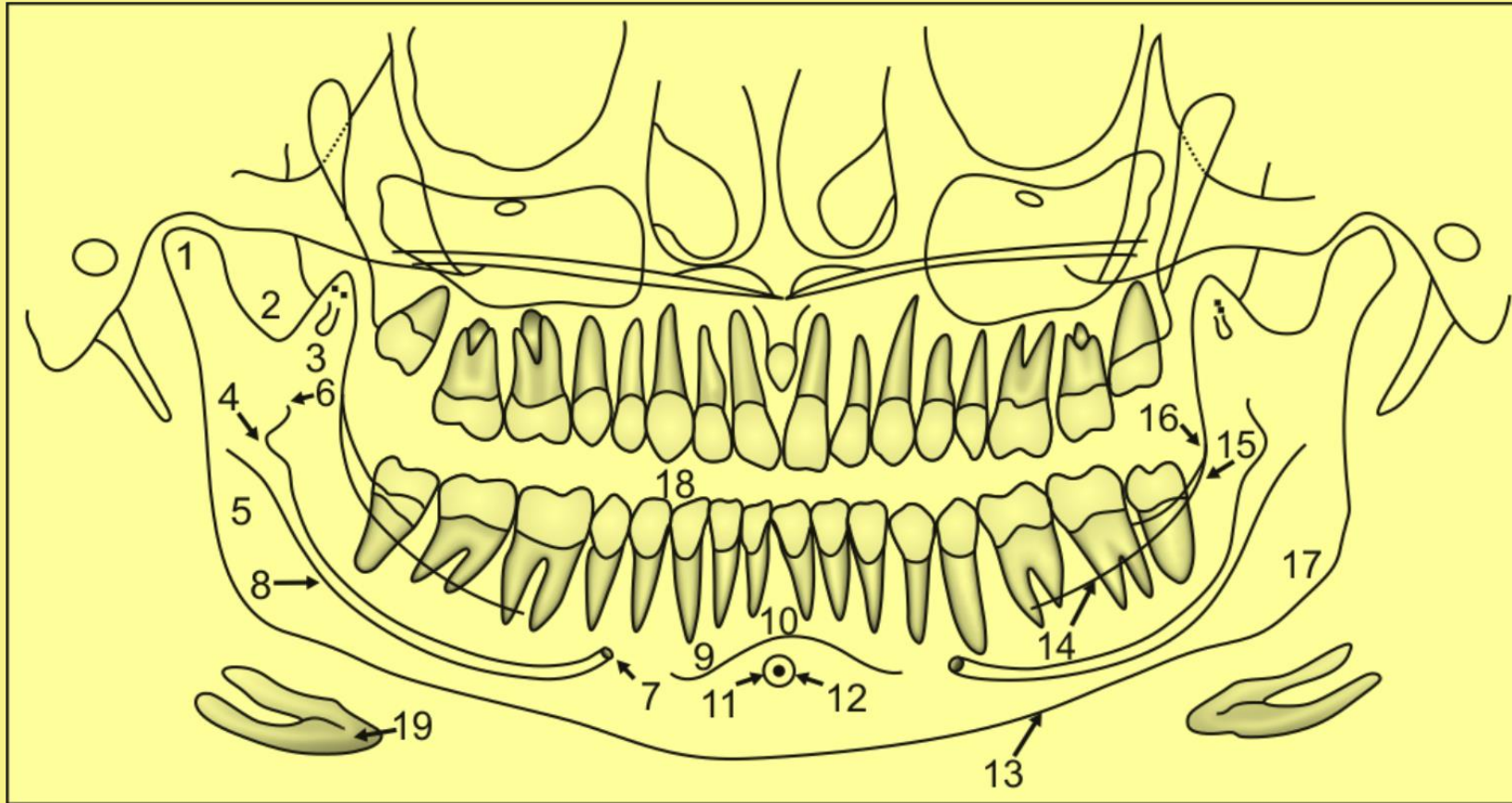
- Dental age
- Tooth development stage
- Relationship between primary and permanent teeth
- Dental pathology and previous treatments
- Dental anomalies
- Cysts and tumors



Karjodkar FR. Essentials of Oral & Maxillofacial Radiology. Jaypee Brothers Medical Publishers (2014)

Normal anatomical landmarks of the maxilla and surrounding structures:

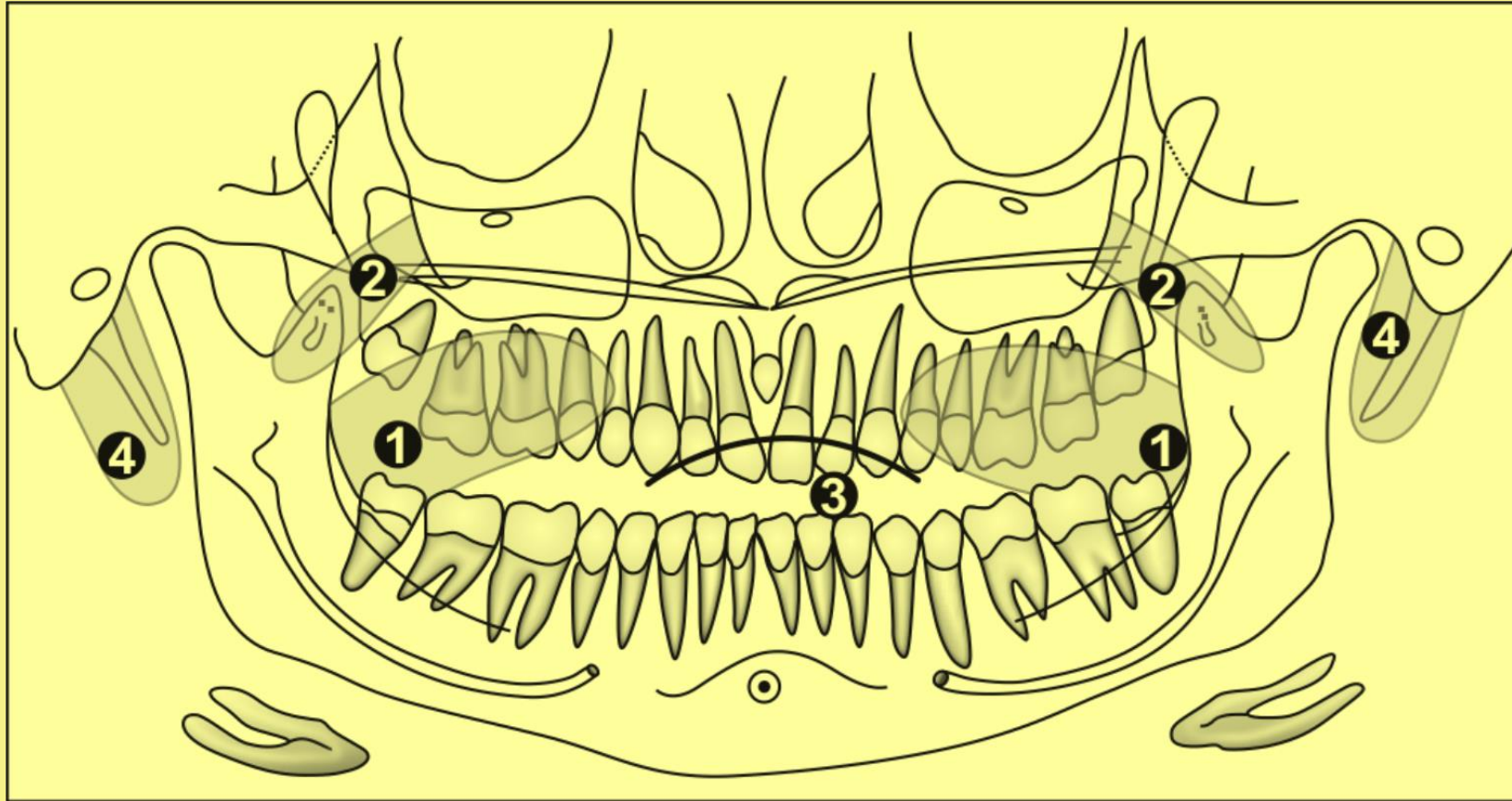
1. Mastoid process; 2. Styloid process; 3. External auditory meatus; 4. Glenoid fossa; 5. Articular eminence; 6. Lateral pterygoid plate; 7. Pterygomaxillary fissure; 8. Maxillary tuberosity; 9. Infraorbital foramen; 10. Orbit; 11. Incisive canal; 12. Incisive foramen; 13. Anterior nasal spine; 14. Nasal cavity and conchae; 15. Nasal septum; 16. Hard palate; 17. Maxillary sinus; 18. Floor of the maxillary sinus; 19. Zygomatic process of maxilla; 20. Zygomatic arch; 21. Zygoma; 22. Hamulus; 23. Dentition



Karjodkar FR. Essentials of Oral & Maxillofacial Radiology. Jaypee Brothers Medical Publishers (2014)

Normal anatomical landmarks of the mandible and surrounding structures:

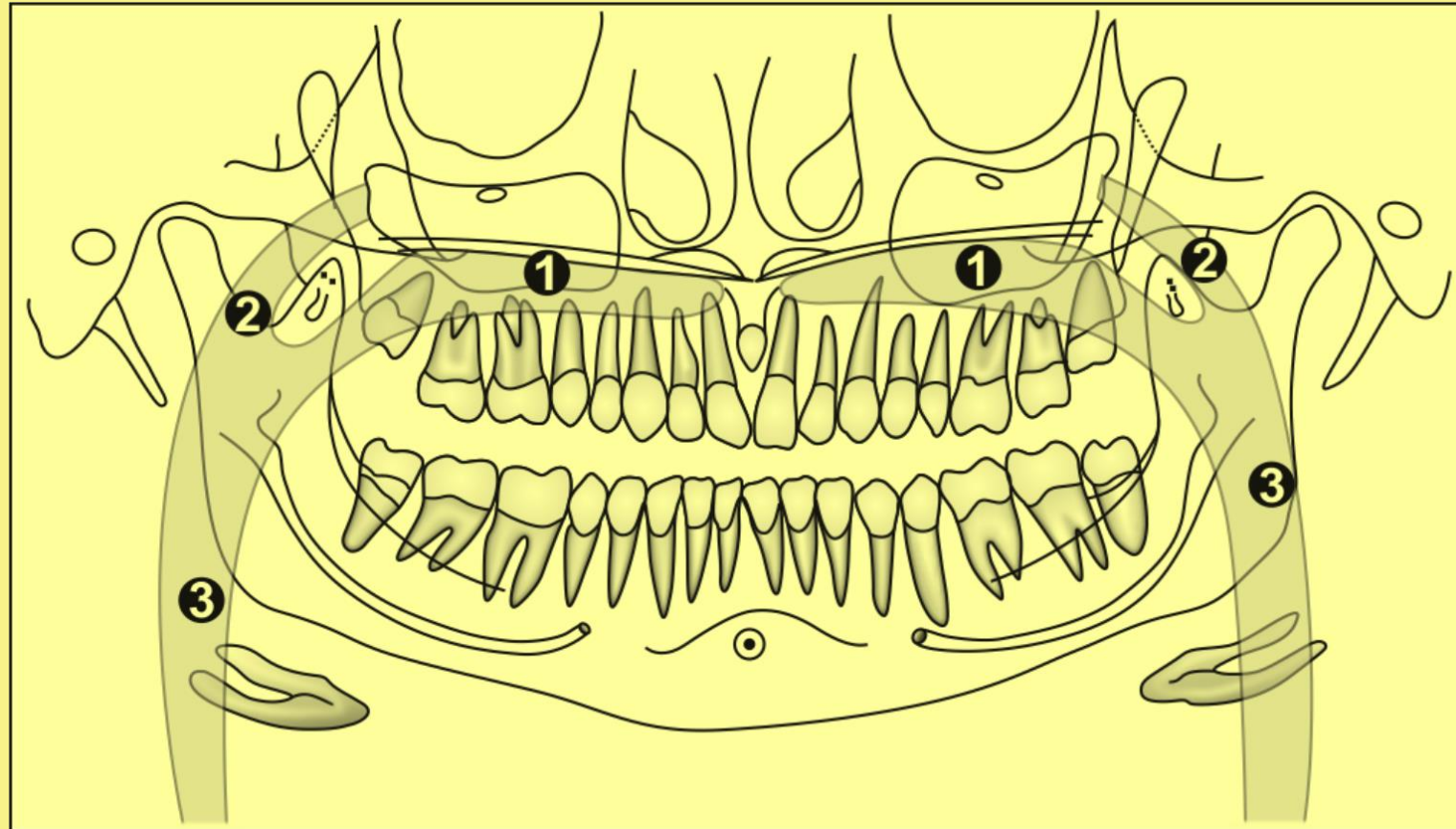
1. Mandibular condyle; 2. Coronoid notch; 3. Coronoid process; 4. Mandibular foramen; 5. Ramus; 6. Lingula; 7. Mental foramen; 8. Mandibular or inferior alveolar canal; 9. Mental ridge; 10. Mental fossa; 11. Lingual foramen; 12. Genial tubercles; 13. Inferior border of mandible; 14. Mylohyoid ridge; 15. Internal oblique ridge; 16. External oblique ridge; 17. Angle of mandible; 18. Dentition; 19. Hyoid bone



Karjodkar FR. Essentials of Oral & Maxillofacial Radiology. Jaypee Brothers Medical Publishers (2014)

Soft tissue images seen on panoramic films:

1. Tongue; 2. Soft palate and uvula; 3. Lipline; 4. Ear



Karjodkar FR. Essentials of Oral & Maxillofacial Radiology. Jaypee Brothers Medical Publishers (2014)

Airspace images seen on panoramic films:

1. Palatoglossal airspace; 2. Nasopharyngeal airspace; 3. Glossopharyngeal airspace



Retroalveolar Radiography

- young permanent teeth – **periapical pathology**, endodontic treatment evaluation
- less used for primary teeth

Bitewing Radiography

- proximal caries and furcation pathology detection
- frequently used for primary teeth



Occlusal Radiography

- Trauma to the anterior teeth
- Eruption problems => detection of supernumerary or impacted teeth and their position
- Presence/absence of permanent lateral incisors

CBCT – *Cone Beam Computed Tomography*

- accurate positioning of impacted and supernumerary teeth
- TMJ evaluation



PEDIATRIC DENTISTRY DISCIPLINE
UMF „VICTOR BABES” TIMISOARA

PRACTICAL CLASS 6.2

COMPLEMENTARY EXAMINATIONS IN PAEDIATRIC DENTISTRY

PHOTOGRAPHIC EXAMINATION



PHOTOGRAPHIC Examination

EXTRAORAL (2photos)

- **FACE**
 - symmetry
 - proportions
- **PROFILE**
 - convex/straight/concave

INTRAORAL (5photos)

- upper arch
- lower arch
- occlusion – front view
- occlusion – right view
- occlusion – left view

retractors and intraoral photography mirror required



Bibliography:

- **Course notes**
- *Elisabeta Bratu, Florica Glăvan (coord.) – **PRACTICA PEDODONTICĂ**, Ed. Orizonturi Universitare, Timișoara, 2005 – chapter 8*
- **EAPD Guidelines for use of radiographs in children:**
https://www.eapd.eu/uploads/590A99C0_file.pdf
- **Paedodontic Radiographic Interpretation: Occlusal and Bitewing RX**
<https://www.youtube.com/watch?v=jWWmp47JXz0>