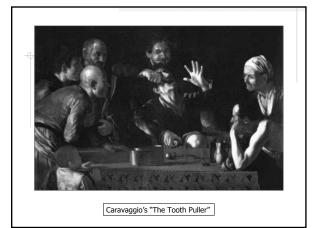


Radiographs in Diagnosis

- Diagnostic imaging is an integral part of the diagnostic process in clinical dentistry.
- Radiographs are often obtained as part of a complete examination.
- Appropriate radiographic interpretation is used along with clinical information and other tests to formulate a differential diagnosis



The Diagnostic Process

- Chief complaint
- History of Present illness
- Medical History
- Clinical examination
- Diagnostic Imaging
- Further examination and testing
- Formulate a differential diagnosis

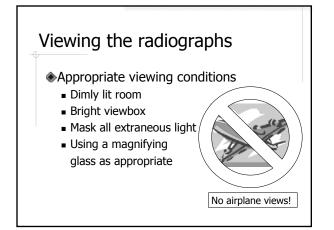
Quality of Image

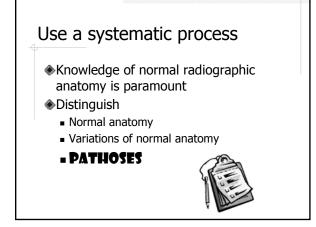
- Is the radiograph of diagnostic quality?
 - Contrast and density
 - Region of interest (ie: the lesion) clearly visible
 - Surrounding normal tissue (approx. 2-3 mm)
 - No geometric distortion

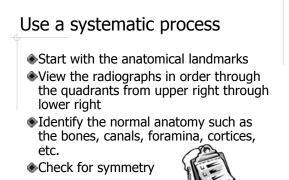
Quality of Image

- Do I need more radiographs?
 - Which one(s)
 - Periapical, Bitewing, Occlusal, Panoramic
- Shall I obtain prior radiographs?
- What is the expected diagnostic yield from the radiographs?



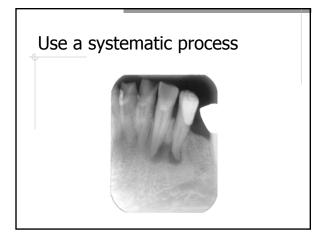


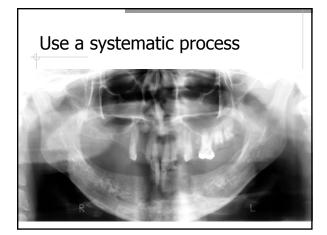


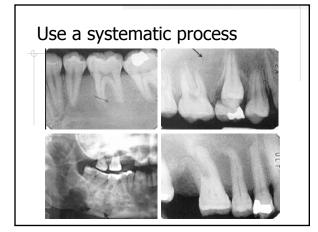


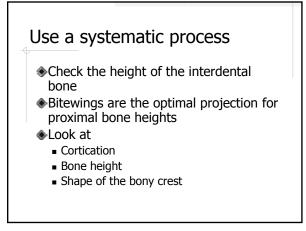
Use a systematic process

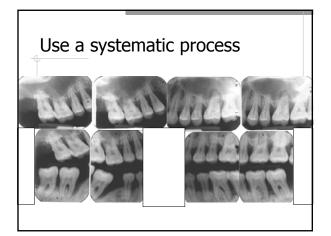
- So back to the first quadrant and look at the trabecular pattern. Is it:
 - Normal
 - Symmetrical when compared to the contralateral side
 - Sparse
 - Dense
 - In the direction of anatomical stress
 - Altered

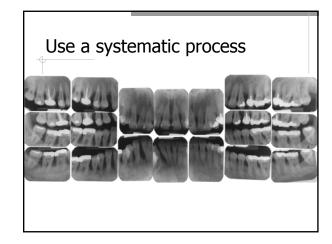




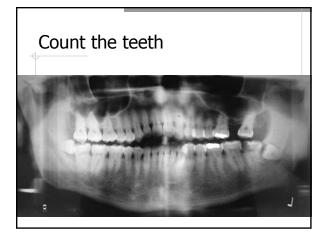


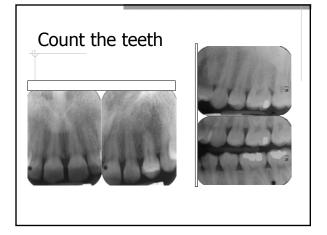


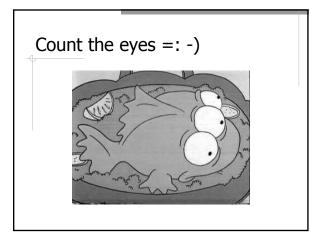


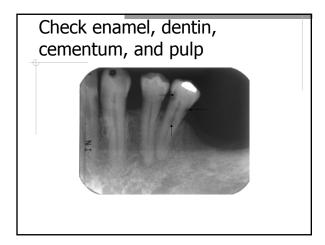


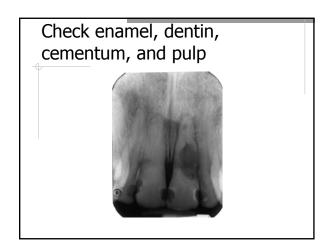
Use a systematic process Check the teeth Count Check enamel, dentin, and pulp Count roots Compare anatomy Check restorations (bitewings are optimal)

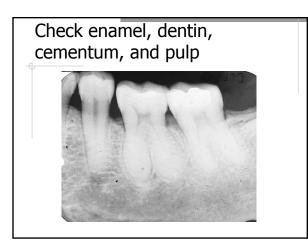


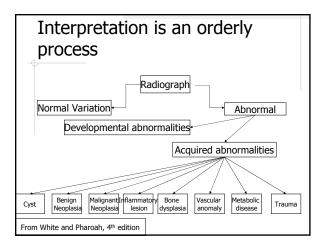


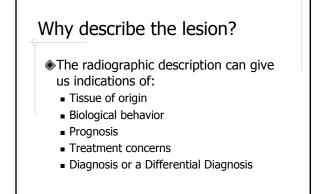


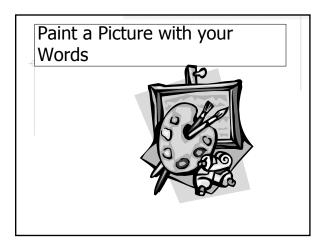


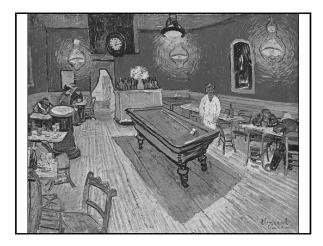






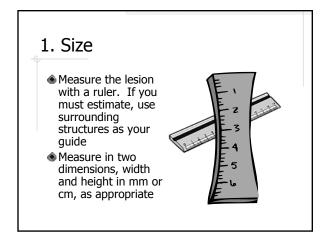




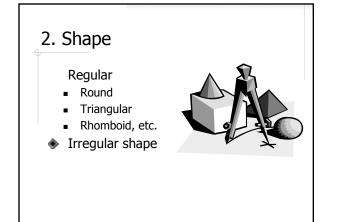


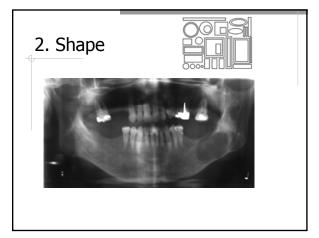
Describing the Lesion

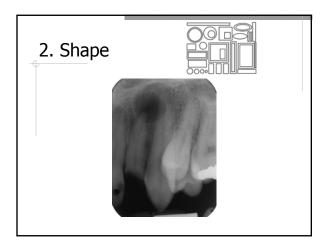
- 1. Size
- 2. Shape
- 3. Location
- 4. Density
- 5. Borders
- 6. Internal Architecture
- 7. Effect on adjacent structures

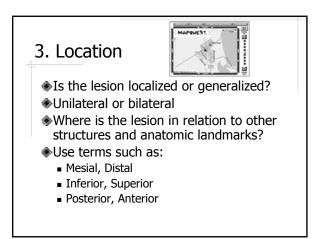


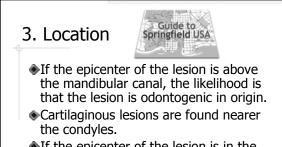




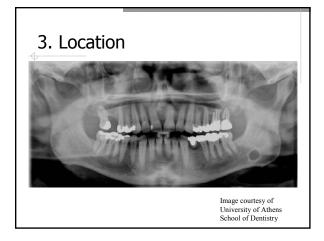




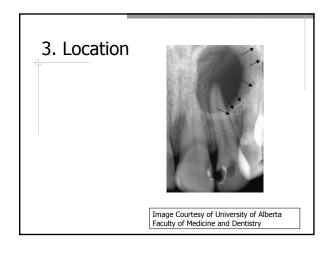




If the epicenter of the lesion is in the sinus, it probably is not odontogenic in origin.



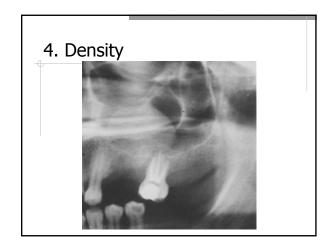


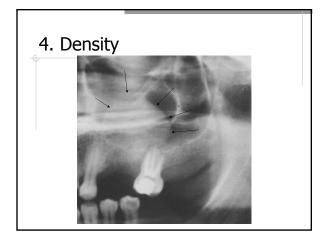


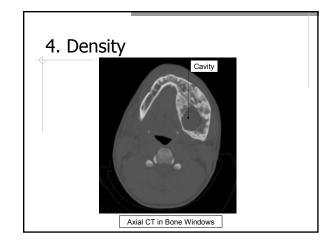


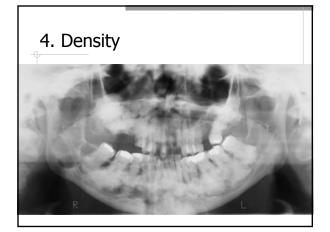


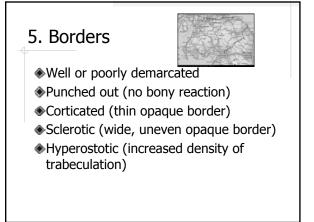
- Is the lesion Radiopaque, Radiolucent, or Mixed Density
- Remember that opacity is relative to the adjacent structures.
- If the lesion is of mixed density, describe the appearance

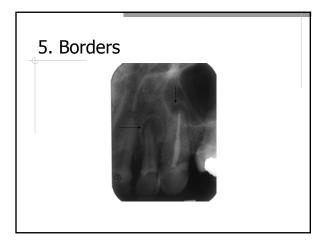




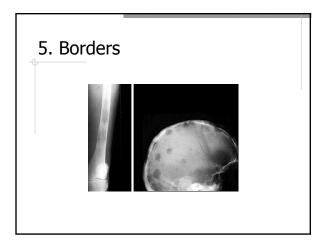


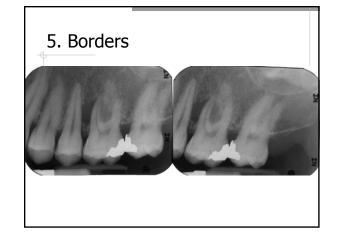


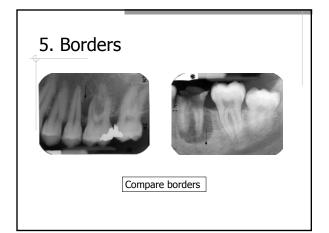


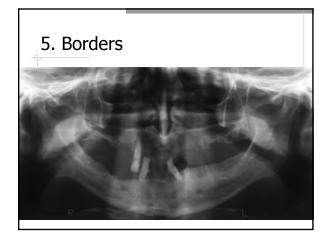


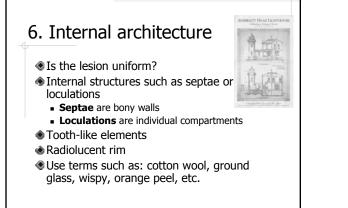


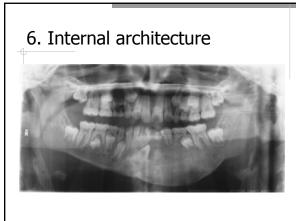


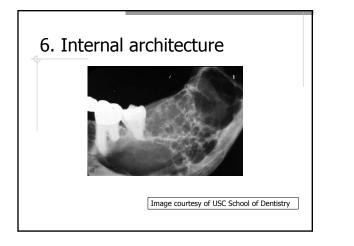


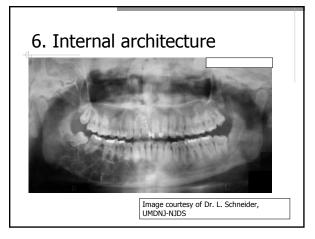


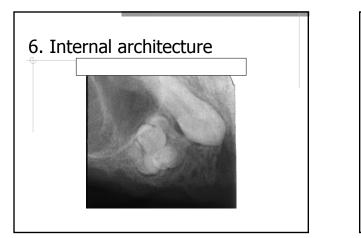


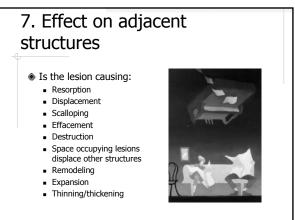








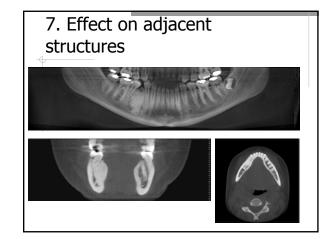




7. Effect on adjacent structures

Space occupying lesions displace other structures

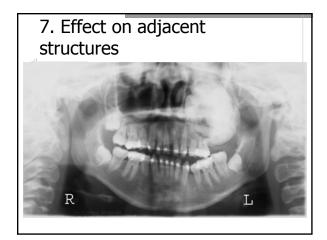


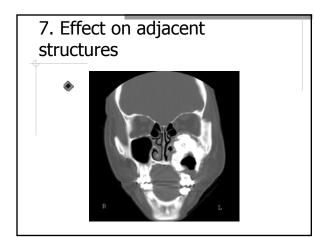


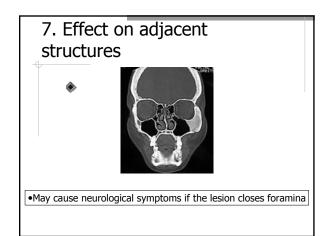
7. Effect on adjacent structures

A Space Occupying lesion creates its own space by displacing other structures, such as teeth, maxillary sinus, inferior alveolar canal, etc.









7. Effect on adjacent structures

