**Lucency**

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| Well | Uni | Pericoronal | Dental follicle <5mm  Dentigerous cyst >5mm  Eruption cyst –child, blue clinically (soft tissue)  **Odontogenic Keratocyst** -33% assoc. with tooth, post md  **Calcifying Odentogenic Cyst** –33% assoc. with tooth, ant, mx=md  **Unicystic ameloblastoma** –post md teens  **Ameloblastic fibroma** –kids and teens, post md  **Adenomatoid Odontogenic Tumor** -75% assoc. with tooth, ant mx teens female |
| Periapical | PA scar –post endo if h/o cortical plate destruction from infection  **PA granuloma** –non-vital  **PA cyst** –non-vital  **Nasopalatine duct cyst**  **Odontogenic Keratocyst**  **Langerhans cell histiocytosis**  **Central Giant Cell Granuloma**–ant md  **PACD** –early, 40 yo AA females, vital |
| Other | **Nasopalatine duct cyst** –mx ant  Staphne bone defect –below md canal  Residual cyst -history of extraction of non-vital tooth  Lateral radicular cyst –non-vital tooth  **Odontogenic Keratocyst** -Primordial cyst if cyst develops instead of a tooth  Lateral periodontal cyst –md premolar  **Calcifying Odentogenic Cyst** –anterior of mx or md  **EG/Langerhans cell histiocytosis**–“punched out” RL  **Central Giant Cell Granuloma** –anterior to first molar, md, >1/2 under 30yo  **Traumatic Bone Cyst** –scallops up between roots, md, young  **Central Ossifying Fibroma** –post md, pushes > resorbs roots, bows inferior border of md |
| Multilocu |  | **OKC (Odontogenic Keratocyst)** –“often”ignores teeth, post md  ”Botryoid type” Lateral Periodontal Cyst–md pm region  Central Mucoepidermoid Carcinoma –senior pts  **Ameloblastoma** –often resorbs teeth, post md  **AF(Ameloblastic Fibroma)** –kids and teens, often post md  **Odontogenic Myxoma** –often moves teeth, post md  **CGCG (Central Giant Cell Granuloma)** –often ant to first molar in md  ABC (Aneurysmal Bone cyst) –assoc with rapid swelling  Central Hemangioma –young pts (10-20yo) |
| Multifocal |  | NBCC syndrome (Nevoid Basal Cell Carcinoma Syndrome) –teens, 75% get OKCs  **Langerhans cell disease** –children, teens, also may see alveolar bone loss (floating teeth)  Cherubism-children  **FOD (Florid Cemento Osseous Dysplasia)** –(florid) early 40-50 yo AA women  **Multiple myeloma** -senior men  Hyperparathyroidism –senior women |
| Poor |  |  | Osteomyelitis(acute)–signs/sx of infection  **PA granuloma**-nonvital tooth  **PA cyst** –nonvital tooth  BON-history of bisphos. Use, exposed bone  Hematopoietic bone marrow defect –post md, adult women  **Tramatic Bone Cyst** (TBC) –scallops up between roots, md, young  **Osteosarcoma** –often painful, 33 yo  **Multiple myeloma**-seniors, late multifocal  **Cementosarcoma** –more often painless  Metastatic tumors –pain, paresthesia, Srs., late multifocal  **Ewings Sarcoma** - Children |

**Opacity**

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| Well | Uni/Multi |  | Torus –md  Retained root tip –pdl still visible  Condensing osteitis–nonvital tooth, wide apical pdl  **Idiopathic osteosclerosis**–post md, interradicular  Osteoma |
|  | Multifocal |  | Osteopetrosis –all part of both jaws, uniform  Paget’s –cotton wool, old white men, expansion  **Idiopathic osteosclerosis**  **Fibrous dysplasia** –ground glass, teens, expansion  **FOD (Florid Cementoosseous Dysplasia)** –50-60 AA Fem, no expansion, confined to alveolar bone  **Gardner syndrome** –odontomas/supernumerary, osteomas, etc. in kids |
|  |  | Cotton Wool | **FOD (Florid)** –50-60 AA Fem, md esp, confined to alveolar bone (tooth bearing areas)  **Paget’s** –seniors, men, mx esp, extends into body of jaws & beyond  **Gardner syndrome** – osteomas, odontomas/supernumerary, impacted teeth |
| Poor |  |  | **OS**: pain, 33 yo, sunburst, swelling, widened pdl, spiking root resorption, max=md  **CS**: pain less often,over 50 yo, sunburst, swelling,widened pdl, spiking root resorption, maxilla |
| Other |  | Sunburst | Intraosseous hemangioma/vascular malformation  **OS**  **CS** |
|  |  | Onion-skin | Proliferative periostitis – children, non-vital  **Ewings Sarcoma** – Children, pain, vital but may have sxs mimicking infection (fever, leukocytosis)  **Langerhans cell histiocytosis** |
|  |  | Ground Glass | **Fibrous dysplasia**  Hyperparathyroidism – loss of lamina dura, multilocuar multifocal radiolucency also seen |
|  |  | Soft tissue | Amalgam tattoo  Other foreign bodies – shotgun pellets  Sialolith - Soft tissue radiopacity superimposed on bone **–** “Sialolithiasis” (salivary gland stone)  Phleboliths  Calcified lymph nodes  Tonsillolith  Calcifications in the skin – calcified acne |

**Mixed**

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| Well | Uni/Multi | **COC (Calcifying Odeontogenic Cyst, Gorlin Cyst)**–ant, mx=md, moves and resorbs roots  CEOT(Calcifying Epithelial Odontogenic Tumor) –post md, imp. tooth, calcif. around crown  **Odontoma** –complex or compound  **AFO (Ameloblastic Fibro Odontoma)** –children  **AOT (Adenomatoid Odontogenic Tumor)** -ant mx teens female  **Cemento-osseous dysplasia (PACD,Focal,Florid)**-(late) tooth bearing areas  **Central Ossifying Fibloma** –moves and resorbs roots, bows md  Osteoblastoma –well-poorly defined RL with patchy RO , teens and young adults, pain  Cementoblastoma –attached to root of tooth |
| Poor |  | **Osteomyelitis(chronic)-**pain  **Metastatic carcinoma** –breast and prostate, pain, seniors  **BONJ-**especially with sequestrum, pain  Possibly osteoblastoma  **OS** -pain, 30’s, “moth eaten”, pdlwidened  **CS** -pain less often, slightly older than os, “moth eaten”, pdlwidened |
|  | Multifocal | **BONJ**-varying stages of necrosis and sequestration  **Paget’s** –seniors, men, mx esp, not just tooth bearing areas, expansion, inc alkaline phosphatase  **FOD (Florid Cementoosseous Dysplasia)** –50 yo AA women, md esp, tooth bearing areas, no expansion |

**Other**

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| Widen PDL | Scleroderma – multiple quadrants  **OS**  **CS** |
| Alverolar Bond Loss | Periodontal disease  Localized aggressive periodontitis – around puberty, incisor, 1st molar pattern  Generalized aggressive periodontitis – 12-30 yo more generalized, plaque/calc heavy  **Langerhans cell disease** –children/teens, may also have periapical/punched out radiolucencies, floating teeth  Papillon-Lefervre Syndrome – skin hyperkeratosis esp palmar-plantar, generalized periodontal bone loss in 1o and perm dentitions 🡪 floating teeth and early tooth loss |