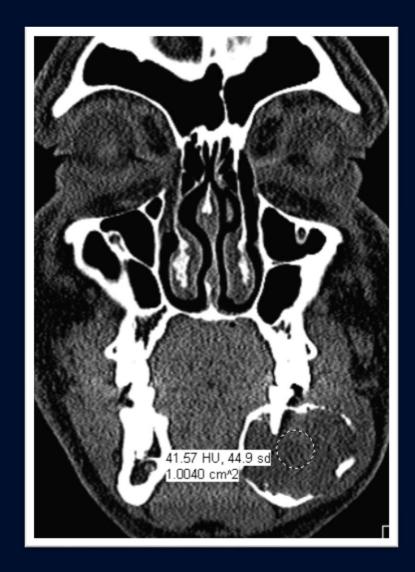
32 y/o male with increasing size of mandibular mass

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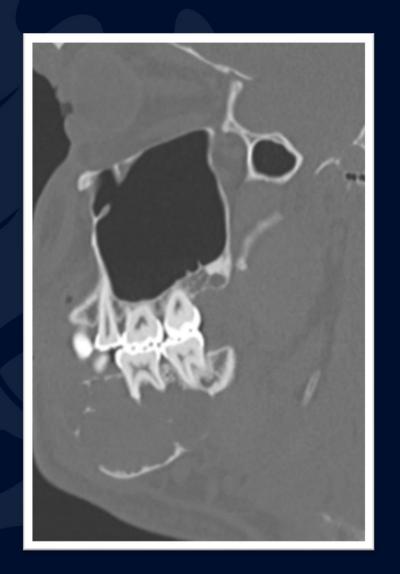












Sagittal CT image of the mandible shows an expansile, cystic lesion within the body of the left hemimandible associated with marked cortical thinning and disruption.







Coronal & axial images of the mandible: An expansile, multiloculated, cystic lesion within the body of the left mandible associated with marked medullary expansion & cortical thinning. Focal areas of cortical disruption are also present. Also note characteristic extensive tooth root absorption (arrow).

Imaging Features

- Usually multicystic, appears multiloculated with internal septations
 - Thick & curved bony septa form soap-bubble appearance & is a diagnostic clue
 - Irregular, scalloped
- Unicystic with a single cystic cavity.
 - Unilocular, well circumscribed, and well-corticated lucent lesion
 - Often associated with the crown of an unerupted or impacted tooth
 - Lack of solid components or internal septa differentiates it from dentigerous cyst
- Hallmark is extensive tooth root absorption of adjacent teeth
 - Unique to Ameloblastoma (among bubbly lesions)
 - Indicates the aggressive behavior



General Features

- Hard, painless facial or intraoral swelling
- Benign but locally aggressive
- Account for 10% of odontogenic tumors
- Usually (80%) located in the mandible
- Generally 3rd-4th decades, M = F.
- Solid/multicystic in 85% of cases
 - Most aggressive and highest recurrence rate



General Features

- Unicystic variant
 - Usually associated with the crown of an unerupted or impacted tooth
 - May resemble a large dentigerous cyst or odontogenic keratocyst
 - Dentigerous cyst: internal solid components, no tooth root destruction
 - Odontogenic Keratocyst: less expansile
- Malignant potential
 - The presence of more aggressive features such as solid enhancing components, papillary projections, and extraosseous invasion suggest malignancy
 - Ameloblastic carcinoma: Histologic criteria of malignancy
 - Malignant ameloblastoma: Histologically identical to ameloblastoma, but metastatic clinically



References

- Devenney-Cakir, Brooke, et al. "Cystic and Cystic-Appearing Lesions of the Mandible:Review." American Journal of Roentgenology, vol. 196, no. 6_supplement, 2011, doi:10.2214/ajr.09.7216.
- 2. Dunfee, Brian L., et al. "Radiologic and Pathologic Characteristics of Benign and Malignant Lesions of the Mandible." *RadioGraphics*, vol. 26, no. 6, 2006, pp. 1751–1768., doi:10.1148/rg.266055189.

