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| **Name:** |
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| 3-A4 |
| **Pathology Question:** |
| What is the pathology behind a supernumerary tooth? |
| **Report:** |
| According to an article by Garvey, et al. “A supernumerary tooth is one that is additional to the normal series and can be found in almost any region of the dental arch.”  May be found as a result of  Impacted central that results in a mesiodens tooth, a supernumerary tooth found directly in the midline between maxillary central incisors,  Distomolars are behind third molars, and are best seen radiographically, as they rarely erupt.  Supernumerary teeth can be just one sign of a more complex condition than hyperdontia itself, such as Ehlers-Danlos Syndrome, cleidocranial dysplasia, CLP, among others.  Many problems can arise such as displacement, delayed or failed eruption and exfoliation, crowding, and other pathology of and surrounding the dentition.  Supernumerary teeth aren’t always fully formed, or are associated with developmental deformations and the bud may form a cyst, which is the most common pathology surrounding a supernumerary tooth.  A dentigerous cyst “is formed by the hydrostatic force exerted by the accumulation of fluid between reduced enamel epithelium and the tooth crown of unerupted teeth. As such, the cyst encloses the crown and is attached to the neck ath the cementoenamel junction”  A radicular cyst “appears as a round… unilocular, radiolucent lesion in the periapical region, and the associated tooth usually has… a large carious lesion”.  While RCT or extraction are normal procedures if one is to intervene, complex situations like paramolars where the teeth are crowed and pushed buccal or lingual might require a more multidisciplinary approach, such as incorporating ortho as well. |
| **References:** |
| Demirturk, Husniye, “Periapical Lesions”. DEIN 7220 Lecture.  Garvey, M. et al. “Supernumerary Teeth -An  Overview of Classification, Diagnosis and  Management” *J Can Dent Assoc*, 1999  Hacking, Craig et al. “Dentigerous cyst”  *Radiopaedia*  [*https://radiopaedia.org/articles/dentigerous-*](https://radiopaedia.org/articles/dentigerous-cyst?lang=us)  [*cyst?lang=us#:~:text=A%20dentigerous%20cy*](https://radiopaedia.org/articles/dentigerous-cyst?lang=us)  [*st%20is%20formed,at%20the%20cementoena*](https://radiopaedia.org/articles/dentigerous-cyst?lang=us)  [*mel%20junction%205*](https://radiopaedia.org/articles/dentigerous-cyst?lang=us)  Jiang, Qian et al. “Dentigerous cysts associated with  impacted supernumerary teeth in the anterior  maxilla.” *Experimental and therapeutic*  *medicine* vol. 2,5 (2011): 805-809.  doi:10.3892/etm.2011.274 |