History: 7 y.o girl with a history of swelling on the right side of her face.

Past Medical History: Unremarkable

Images:

Coronal View
What is your most likely diagnosis?

1) Keratocystic Odontogenic Tumor
2) Ameloblastic Fibroma
3) Juvenile Ossifying Fibroma
4) Desmoplastic Fibroma
5) Central Hemangioma
**Diagnosis:**

Initial biopsy: **Desmoplastic Fibroma**

Re-lecture of the biopsy at UK: **Low cellular desmoplastic fibroma**

Final report after the whole specimen was referred to pathology: **Juvenile Ossifying Fibroma (trabecular pattern)**

**Ossifying Fibroma**

1. Ossifying fibroma is a true neoplasm with an important growth potential.
2. It is a rare tumor.
3. The neoplasm is composed by fibrous tissue that contains a variable mixture of bony trabeculae, cementum-like spherules, or both.
4. It has been suggested that the origin of these tumors is odontogenic or from the periodontal ligament.

**Clinical Features:**

1. Epidemiology unclear (confusion with focal cemento-osseous – dysplasia).
2. The majority of cases occur in the third and fourth decades of life.
3. There is female predilection with the mandible being involved more often than the maxilla.
4. It is usually associated with painless swelling.

**Final Diagnosis:**

**Juvenile Ossifying Fibroma** is a controversial lesion that has been distinguished from the larger group of ossifying fibromas on the basis of the age of the patients.

**Characteristics:**

1. Rapid growth.
2. The borders are well circumscribed and in some cases contain central radiopacities.
3. The trabecular form is diagnosed initially in younger patients (mean age 11y.o.)
4. Slightly male predilection, occur in either jaws but has a maxillary predominance.

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