CASE 4 13 Y/O GIRL

Brief history

Past history
 Abnormal craniofacial appearance

Chief complain
 Recent developing hearing impairment

Imaging studies

Head CT (no C) (2020.08.04)

Imaging findings

- ✓ Hyperostosis with increased osteosclerosis involving multiple craniofacial bones, also with hyperostosis of multiple cervical vertebrae
- ✓ Hyperostotic deformity of the skull base and temporal bones with concomitant absence of bilateral foramen spinosum, stenosis of bilateral interal acoustic canals, and stenosis of the left jugular foramen
- ✓ Chronic otitis media, left

Differential Diagnoses

- Fibrous Dysplasia/McCune-Albright syndrome (FD/MAS)
- Paget disease
- Jaffe-Campanacci syndrome
- Garré sclerosing osteomyelitis

McCune-Albright syndrome (MAS)

 Rare genetic disorder resulting from postzygotic somatic mutations in the GNAS gene and is usually diagnosed during childhood or adolescence

Clinical triad:

- Monostotic or polyostotic fibrous dysplasia
- Precocious puberty
- Café-au-lait skin macules
- Imaging features:
 - Uni- or multifocal expansile bone lesion(s) with variable fibrous stromal matrix (ground glass/mixed/cystic)
 - Craniofacial involvement can lead to calvarial deformity and facial disfigurement ("Leontiasis ossea" is severe cases)
 - Entrapment syndromes (vascular or neurological)









