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KARNATAKA RADIOLOGY EDUCATION PROGRAM

CASE PRESENTATION

MODERATOR: DR JEEVIKA M U HOD DEPT OF RADIDIAGNOSIS JJMMC, DAVANGERE

CASE PRESENTATION

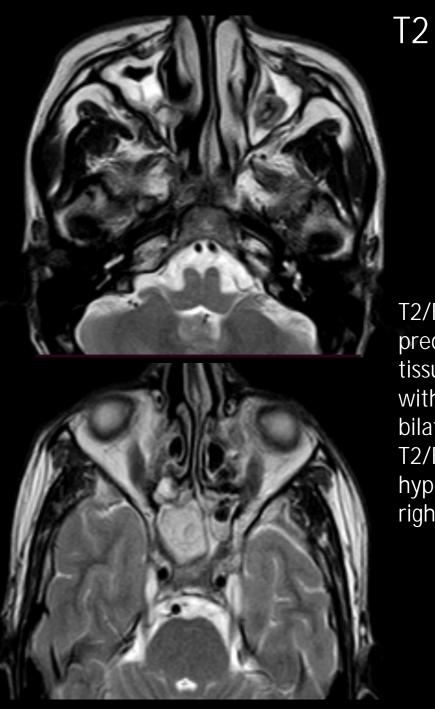
MENTOR: Dr. Rahul S, Assistant professor, Dept. of radiodiagnosis JJM MEDICAL COLLEGE, DAVANAGERE

PRESENTER: Dr. Sanjay, PG Resident

Clinical history:

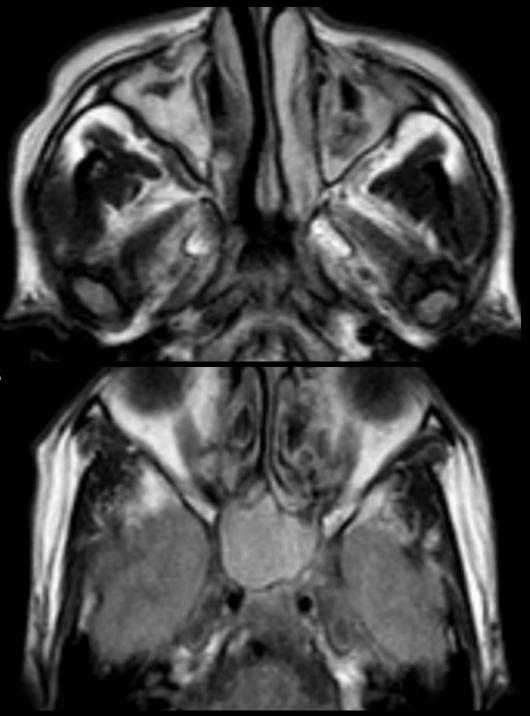
A 45 year old male came with chief complaints of:

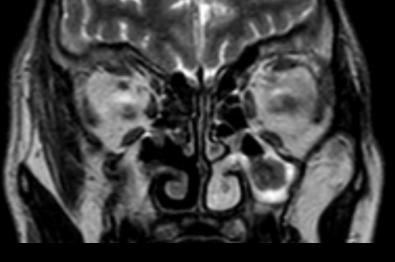
- Fever, since 10 days
- Diminision of vision ,redness and mild ptosis of left eye since 10 days
- No H/o discharge /watering /previous surgery
- K/c/o of Diabetes mellitus since 5 years, not taking regular medication
- H/o thorn prick in left eye 1 month ago for which he has not received any treatment
- O/E: Confused and disoriented
- Ophthalmic examination has revealed few dot blot hemorrhages of macula and tortuous vessels noted in bilateral fundus
- Impression: Bilateral non proliferative diabetic retinopathy changes
- Lab investigations: TLC 14,000, HBA1C- 12 % (Poor control>7.5%), urine routine revealed pus cells
- Patient was advised MRI brain to rule out Mucormycosis



T2 AND FLAIR, AXIAL

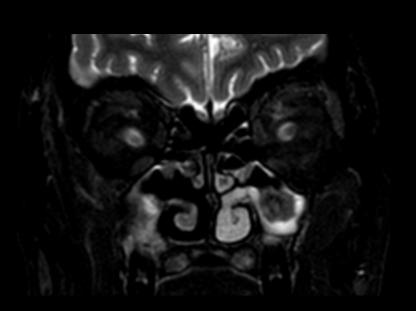
T2/FLAIR Heterogenous predominantly hypointese soft tissue noted in left maxillary sinus with mucosal thickening noted in bilateral maxillary sinuses T2/FLAIR heterogenous hyperintense soft tissue noted in right sphenoidal sinus

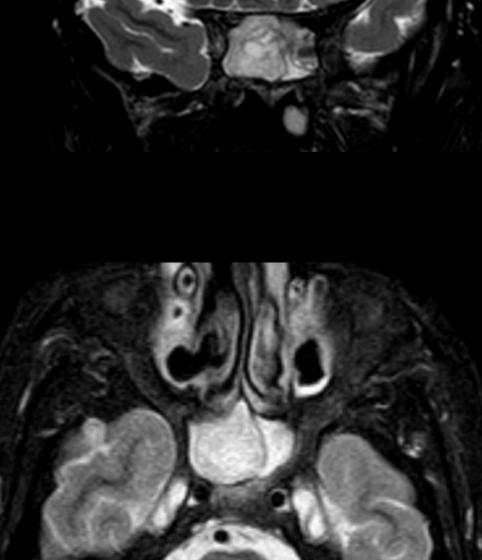




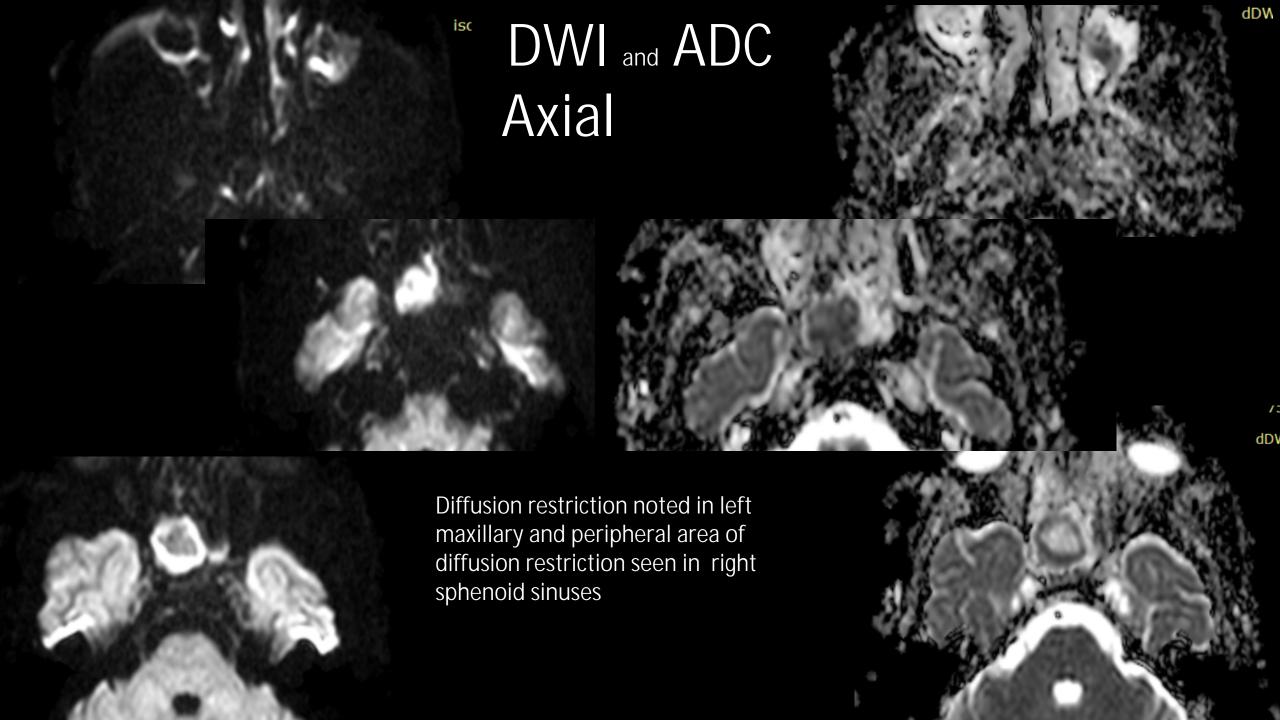
Coronal T2W AXIAL AND CORONAL STIR

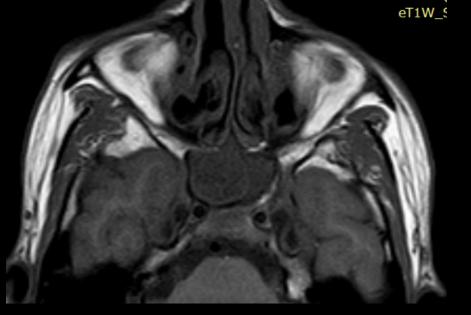
Evidence of T2 hypointense soft tissue with stir hyperinetensity noted in left maxillary sinus T2/STIR heterogeneously hyperintense soft tissue noted in right sphenoid sinus



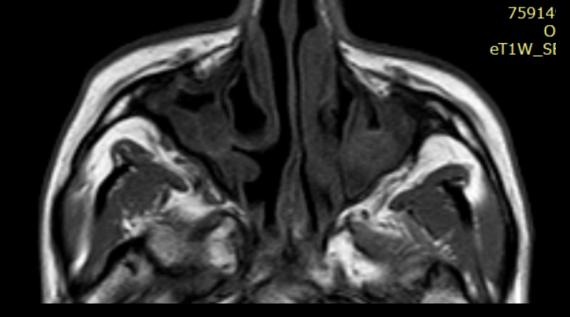


T2W_

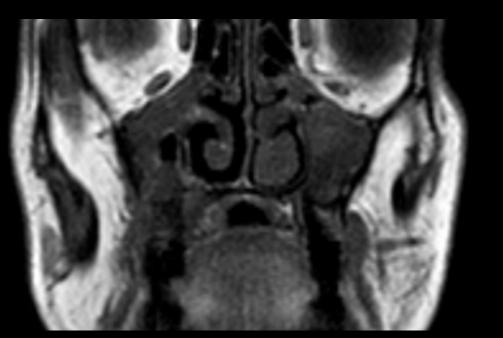


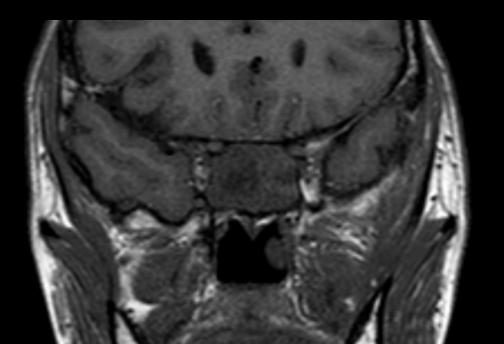


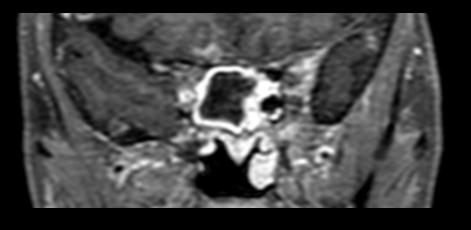
T1 heterogeneously hypointense soft tissue noted in left maxillary and right sphenoidal sinuses



T1W axial and coronal pre contrast

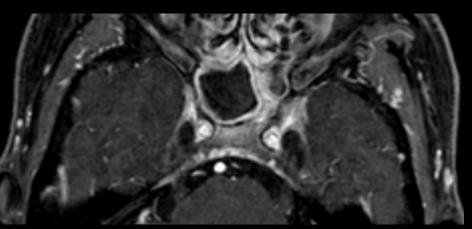




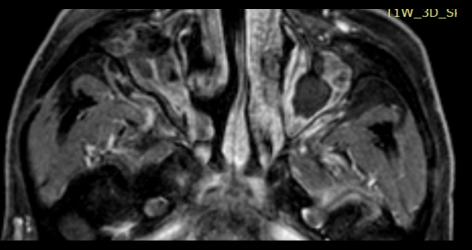


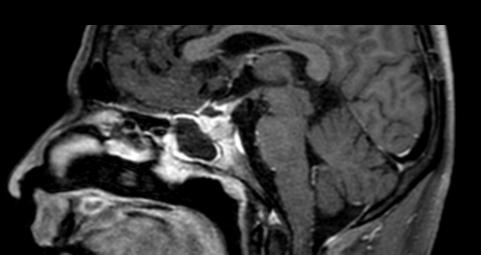
There is peripheral rim enhancing soft tissue with central non enhancing hypointensities in the sinuses involved – S/o Fungal tissue

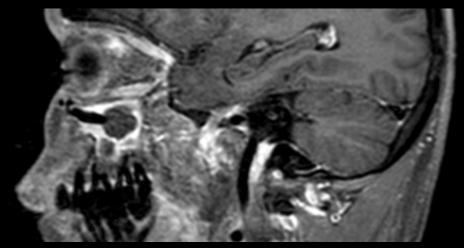




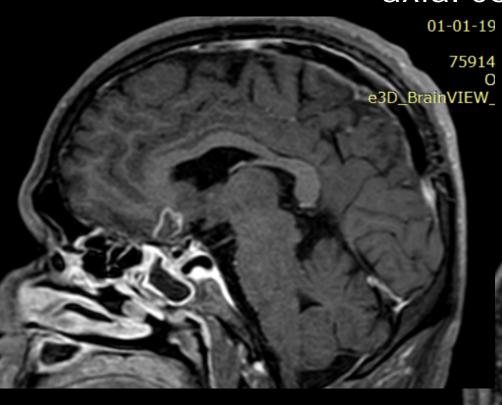
Post contrast 3DT1



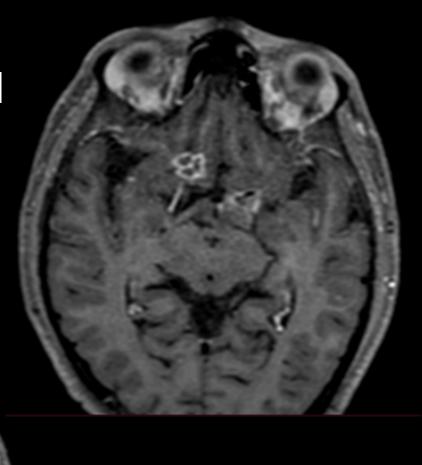




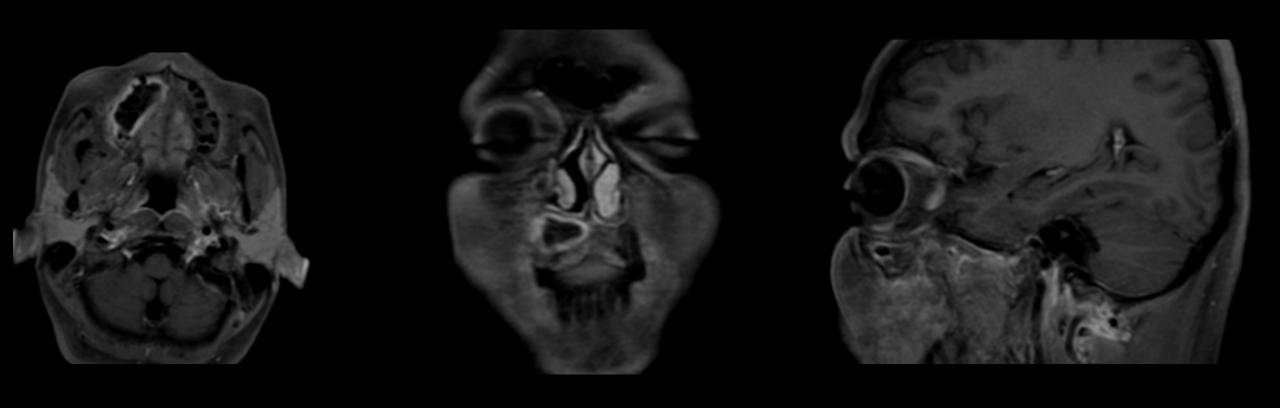
Post contrast T1W axial coronal and sagittal



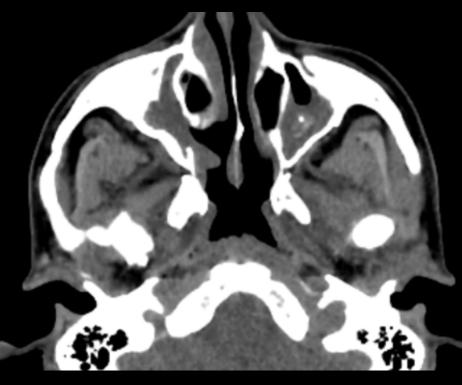
Peripheral rim enhancing area is noted in right basifrontal lobe, (the intracranial extension) <u>s/o Cerebritis</u>



Post contrast T1W all three planes



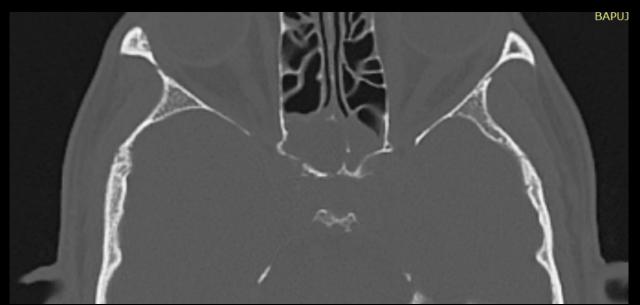
Peripheral rim enhancement noted in right half of maxillary alveolar arch – <u>s/o Fungal Osteomyelitis</u>

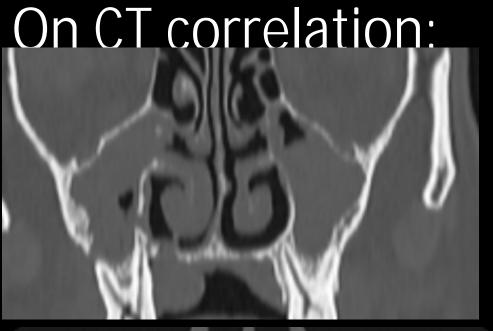


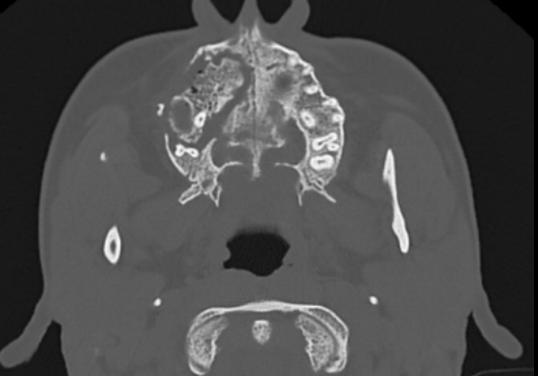
Ct axial soft tissue and bone window

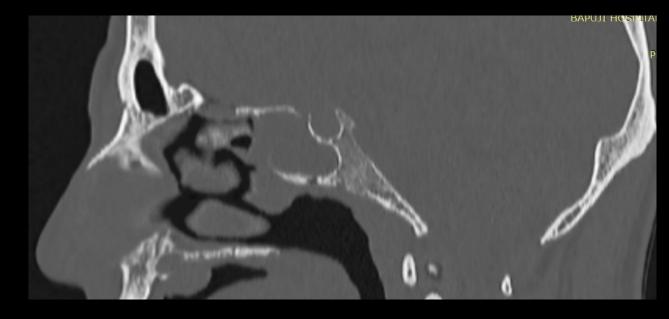


Soft tissue opacity noted involving bilateral maxillary sinus, and sphenoid sinus with hyperdense foci noted within left maxillary sinuses









 Bony framework thinning and erosion of medial and lateral wall of right maxillary sinus, yoke of sphenoid, inter-sphenoid septa, right upper alveolar ridge

Diagnosis

- Severe sinusitis is noted in bilateral maxillary, ethmoid and sphenoid sinuses.
- T2 hypointense non-enhancing soft tissue is noted in bilateral maxillary, posterior ethmoid and sphenoid sinuses <u>s/o Fungal tissue</u>.
- Intracranial extension of above mentioned fungal tissue through sphenoid sinus into suprasellar cistern
- Peripheral rim enhancing area is noted in right basifrontal lobe <u>s/o Cerebritis</u>
- T2 hypointense non-enhancing area with Peripheral rim enhancement is noted in right half of maxillary alveolar arch <u>s/o Fungal Osteomyelitis</u>
 - → F/S/O <u>Acute Invasive Fungal Sinusitis with intracranial extension</u> (cerebritis), as described.