



## Management of developing Cavernous Sinus Thrombosis – a life threatening condition

A seventy year old female, known case of hypertension and diabetes mellitus reported to the emergency department of our hospital with loss of vision in her right eye for more than a span of three days, facial swelling with pus discharge from lateral canthus of the same. The patient had undergone a tooth extraction at a hospital in Durgapur, following which she developed the above mentioned complaints. The initial treatment was done at the hospital in Durgapur with inj. Cefepime and inj. Amikacin which did not lead to any resolution of her major complaints.

After getting admitted to our hospital, she underwent routine blood work up, an ECG and a CT scan of the face and brain. Her blood work up reports showed acute kidney injury, abnormal ECG signs and CT scan of the brain showed huge periorbital edema, stretching of her optic nerve and also risk of developing Cavernous Sinus Thrombosis (blockage in a vein that runs through a hollow space underneath the brain & behind the eye sockets) which can be life threatening. The patient was thereafter put on antibiotics and the other complications after being managed; she underwent excision and drainage under general anaesthesia (GA). Post - operatively patient had persistent pus discharge from the sutured area over right eyebrow and intra - oral site. Routine blood reports showed rise in WBC count and lowering of platelet levels. The patient had epistaxis, episode of vomiting and also throbbing headache. In view of her underlying kidney status and risk of Cavernous Sinus Thrombosis, antibiotic coverage was changed, and she underwent another surgery with further debridement of the area with remaining pus drainage under GA after blood transfusion and repeat CT of brain.

Post operatively she was doing well and was discharged after 3 days with oral antibiotic coverage. A team effort of Oral & Maxillofacial Surgeon, Physician, Ophthalmologist, Neuro Surgeon, Cardiologist and ENT Head & Neck Surgeon combined together to manage the development of a deadly condition Cavernous Sinus Thrombosis (CST). Patient has visited the OPD on a regular basis post discharge for follow up and she is doing well now.



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