

Case Report

Triple vessel diseasetreated functional endoscopic sinus surgery

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Abstract

Triple vessel disease, a coronary artery disease caused by narrowing of plaques which is cholesterol deposit on the vessel wall resulting abnormal and gradual thickening of the lining of the heart arteries condition known as atherosclerosis. The narrowing usually develops slowly over many years. This high-risk case was operated by the team in TUTH ENT Operation theater. We report a 75-year-old man with triple vessel disease with diagnosis of right allergic fungal rhinosinusitis with left deviated nasal septum successfully undergone right Functional Endoscopic Sinus Surgery and recovered. It had emergent condition.

Keyword: FESS :Functional Endoscopic sinus surgery

Case Summary

A 75-year-old presented with right side nasal obstruction, facial pain right side, progressive mucoid and mucopurulent URTI (upper respiratory tract infection). It started as Right sided nasal obstruction 1.5 years back. Left Nasal Deviated Symptoms with pale polyp in right middle meatus, reduce sense of smell and test.

Previously he was operated for renal calculus 17 years back, cholecystectomy done for gall bladder stone, cataract surgery for right eye three months back.

He has co-morbidity of condition like hypertension 2 years ago. He was diagnosed as BPH (benign prostate hyperplasia) for 10 years and newly diagnosed Diabetes Mellitus 1 week back. He complains of difficulty breathing for two months. He has history of shortness of breath, NYHA grade 1 with functional limitation less than 4 metabolic rate. This patient was admitted at 2075/ 04/21.

In admission patient's blood pressure 160/104 cardiac consultation done, left ventricular hyperplasia,

grade 1LVAD, LVEF 50% .Anesthesia point of view this case is first case in ENT. This case underwent orotracheal intubation then continue monitoring by anesthesia. Ongoing operative procedure anesthesia continue monitor and advice manage CCU /ICU for start GKT drip.

He is taking medication for diabetes, hypertension, hyperlipidemia BPH and anticoagulant. operative diagnosis is right allergic fungal rhinosinusitis with left deviated nasal septum.

Functional Endoscopic minimally invasive surgical procedure that opens the sinus air cells and the sinus a minimally invasive treatment which uses nasal endoscopes to enlarge the nasal drainage pathways of the paranasal sinuses to improve sinus ventilation. This procedure generally used to treat inflammatory and infectious sinus diseases including rhinosinusitis that does not respond to drug, nasal polyps, some cancers, and decompression of eye sockets /optic nerve in graves ophthalmopathy. The purpose of FESS in treatment chronic rhinosinusitis is to remove anatomical obstruction that prevent proper mucosal drainage. Standard fess includes removal of uncinat process,

opening of the anterior ethmoid air cells as well as haller cells as well as maxillary ostium if necessary. (<https://en.m.wikipedia.org>). Functional endoscopic surgery is considered a success if most of the symptoms including nasal obstruction, sleep quality, olfactory or facial pain are resolved after a 1-2 months post-operative healing period.

The success rate of FESS in treating adults with CRS (chronic rhinosinusitis surgery) reported 80-90% and success rate in treating children with CRS has been reported as 86-90%. The result after FESS are good with most studies reporting 80 to 90 percent rate of success. Good result also has been obtained patient who have had previous sinus surgery. (<https://www.aafp.org/afp>)

Discussion

A 75-year-old presented with right side nasal obstruction, facial pain right side, progressive mucoid and mucopurulent URTI (upper respiratory tract infection). It started as Right sided nasal obstruction 1.5 years back. Left Nasal Deviated Symptoms with pale polyp in right middle meatus, reduce sense of smell and test. It had emergent condition

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Global scenario CAD was rare case cause of death in US at the turn of the century. Accounting for < 10% of death 1910, 1965 the increased than fivefold 55% of all death.

It was strong characterizes who has smoke, hypertension, high blood cholesterol. the patient had single, double or triple vessel disease depending on chest pain, shortness of breath, palpitation. severity prognosis of the heart attack depends up on percentage of heart muscle damaged. Dhulikhel Hospital is also providing cardiovascular services to population from semi urban area rural population of mid region of country.

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Functional endoscopic sinus surgery started (Tribhuvan University Teaching Hospital) TUTH from 2003. Total numbers of cases done from march 2003 to 2005 were 94,

Conclusion

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Triple vessel disease coronary artery diseases are caused by narrowing by plaques which are cholesterol deposit on the vessel wall resulting abnormal and gradual thickening-off the lining of the heart arteries condition known as atherosclerosis. The narrowing usually develops slowly over many years. This high-risk case was operated by TUTH ENT team. We reported 75-year-old man had triple vessel disease in which patient was successfully operated and recovered. Then the patient was discharged on 2075/04/25 without any complications. It had emergent condition in world as well as our rhinology cases.

Conflict of interest: Not declared

CAD: Coronary artery disease

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