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Endoscopic repair of anterior septal perforation using anterior ethmoidal artery flap

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Surgery for repair of a septal perforation is one of the most difficult, annoying, bad outcomes of surgery for an ENT surgeon. My objective is to let rhinologists know that there is a technique that may help with good results in certain types of perforations. Making a good surgery needs certain steps to get a great outcome: (1) Good infiltration with Xylocaine-adrenalin solution to get good decongestion and hydro dissection; (2) Refreshing the edges of the perforation all around; (3) Elevating the right nasal septal flap; (4) Freeing the lower edge of the flap, (5) Freeing posterior edge of the flap to create a superiorly based flap taking its blood supply from anterior ethmoidal artery, (6) Anterior rotation of the flap; and (7) Suturing the flap using 3/0 sutures; this procedure could be done under general anesthesia or local anesthesia with moderate sedation. Advantage of this technique is that you have vascular flap ensure good graft taking. On the other hand we face some limitations like that you should have a cartilaginous rim to get good fixation of the flap and good healing. Finally we can say that using anterior ethmoidal artery flap in repairing anterior septal perforation is a good option with good post-operative results.

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