

## **ABSTRACT**

**TITLE OF ABSTRACT: TO COMPARE THE EFFECTIVENESS OF NORMAL SALINE TO  
(1:100000) ADRENALINE IN REDUCING INTRA OPERATIVE BLEEDING  
FOLLOWING PTERYGOPALATINE FOSSA INFILTRATION PRIOR TO  
SURGERY.**

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### **OBJECTIVES:**

- a) To evaluate and compare the effectiveness of normal saline to normal saline with 1:100000 adrenaline infiltration in pterygopalatine fossa during endoscopic sinus surgery.
- b) To assess and compare the following hemodynamic variables
  - Heart Rate and Mean Arterial Pressure.
  - Effect of mean arterial pressure on Visual surgical grade.
  - Effect of mean heart rate on Visual surgical grade.

## **METHODS OF STUDY:**

The subjects who presented to the ENT outpatient clinic with nasal complaints underwent detailed ENT examination including rigid nasal endoscopy and CT scan of the paranasal sinuses. Patients were recruited for the study if they satisfied the inclusion and exclusion criteria. A written informed consent was obtained from every patient.

The transoral infiltration of the pterygopalatine fossa was administered by the operating surgeon such that one side would be infiltrated with 2 ml of either normal saline with 1:100000 adrenaline or normal saline. On completion of procedure on one side the opposite side was infiltrated with 2 ml of the second solution. Principal investigator graded the intra operative bleed according to Wormald surgical field scale and was blinded to the drug administered. Mean arterial pressure and heart rate were also recorded along with surgical grading.

## **RESULTS:**

- 1) Our study revealed a better surgical field on the side infiltrated with saline and adrenaline when compared to saline infiltration alone.
- 2) Heart rate and mean arterial pressure did not show any statistical significance with the quality of surgical field.
- 3) Initial hour proved crucial with a better surgical field being obtained with normal saline and 1 in 1 lakh adrenaline .

*Keywords:* Pterygopalatine fossa ,Endoscopic sinus surgery.