


Intranasal trigeminal and secretory functions are impaired after topical anaesthesia or surgical treatment of epistaxis

Preliminary investigation

37 healthy participants

Endonasal pain threshold bilaterally and side-separated using CO₂ stimulation

- Native
- After decongestion with xylometazoline
- Locally anesthetized with xylocaine



No effect on intranasal trigeminal function (INTF)

INTF significantly decreased

Main experiment

17 patients after monopolar cautery of sphenopalatine artery (SPA) and its branches

- Secretory function of the lacrimal gland (Schirmer test)
- Secretory function of the endonasal glands (sponges)
- Endonasal pain threshold using CO₂ stimulation

Comparision between coagulated and non-coagulated side

