

## The role of endoscopic transnasal microwave ablation in otorhinologic procedures: An alternative to conventional coagulation modalities

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### Abstract

**Objective:** Otorhinolaryngologists have long employed thermal ablation and coagulation modalities such as, radiofrequency ablation and diathermy cautery to manage soft tissue hypertrophy. Microwave ablation (MWA) has recently become a popular thermal modality for minimally invasive procedures due to faster ablation times, larger ablation volumes, and effectiveness in many tissue types. This study presents a retrospective review of patients undergoing transnasal endoscopic procedures utilizing microwave ablation.

**Methods:** Retrospective chart review comparing surgical technique and short-term outcomes in patients undergoing endoscopic transnasal microwave ablation at an academic affiliated multi-specialty practice between January 1st 2019 to January 1st 2020.

**Results:** 12 patients underwent transnasal endoscopic ablation utilizing the NuWave PR microwave ablation probe. 8 patients underwent submucosal turbinate reduction. 2 patients underwent polypectomies, 2 patients underwent adenoidectomies. Mean follow up was 14 weeks.

**Conclusion:** Endoscopic transnasal procedures utilizing microwave ablation is feasible and offers several advantages over traditional coagulation modalities including speed of procedure, speed of recovery.



### Biography

Marc Dean is a board-certified otorhinolaryngologist, who graduated from Baylor University with a bioinformatics, and went on to graduate from Texas Tech Health Science Center with a degree in Medicine. He completed his residency at Louisiana State University Health Science Center in Shreveport, as well as his fellowship in otorhinology under Gale Gardner and Fred Stucker. He currently practices in Fort Worth, Texas, focusing on both otologic and rhinologic disorders. He also serves as chairman of Vitruvio Institute of Medical Advancement (VIMA), a non-profit research institute, as well as assistant clinical professor at Texas Tech University Health Science Center.

### Publications

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