


## TOTALLY ENDOSCOPIC STAPEDOTOMY

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## DISCLOSURE

# NONE

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## SPECIAL THANKS

# NONE



The International Working Group on Endoscopic Ear Surgery  
"IWGEES"

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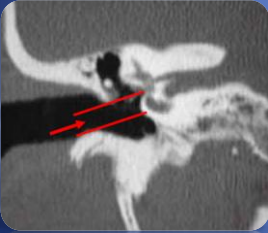
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## WHERE I AM FROM



Fortaleza, 3 million

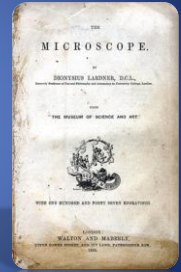
## INTRODUCTION



Tarabichi M. Endoscopic middle ear surgery. *Ann Otol Rhinol Laryngol.* 1999;108:39-46.

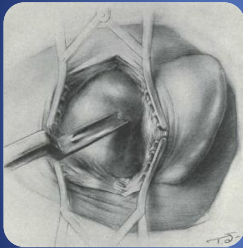
## INTRODUCTION

- 1921 – Microscope in otology  
– Carl Nysten
- 1950



Nogueira JF Jr, et al. A brief history of otorhinolaryngology: otology, laryngology and rhinology. *Braz J Otorhinolaryngol.* 2007;73(5):693-703.

## INTRODUCTION



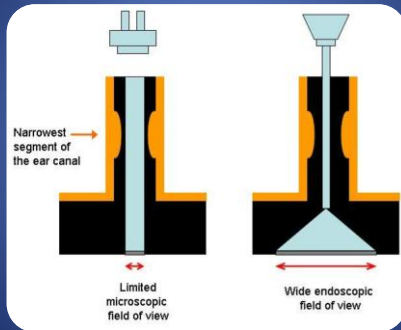
Nogueira JF Jr, et al. A brief history of otorhinolaryngology: otology, laryngology and rhinology. *Braz J Otorhinolaryngol.* 2007;73(5):693-703.

## INTRODUCTION

- Endoscopes in otology  
– Documentation  
– Ambulatory exams



## INTRODUCTION



Tarabichi M. Endoscopic middle ear surgery. Ann Otol Rhinol Laryngol, 1999;108:39-46.

## INTRODUCTION

- 1938 – Lempert  
– Fenestration
- 1953 – Rosen  
– Stapes mobilization
- 1956 – Shea  
– Stapedectomy



## INTRODUCTION



## OBJECTIVES

- To demonstrate the feasibility of endoscopic stapedotomy showing its possible advantages and disadvantages

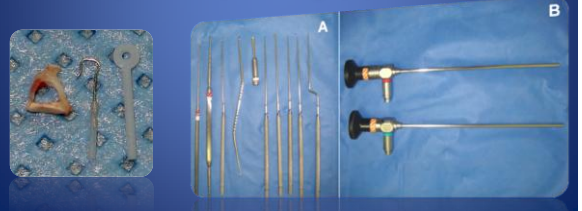


## PATIENTS

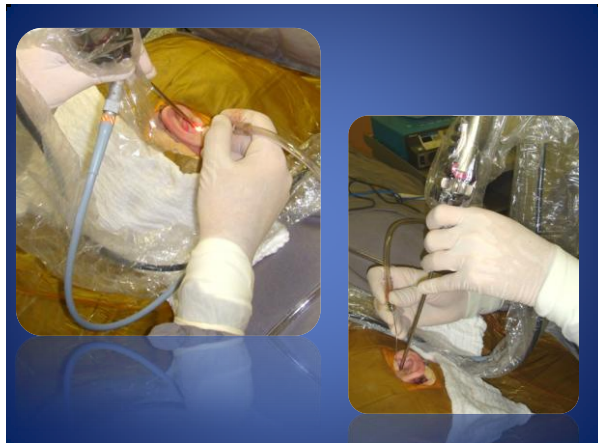
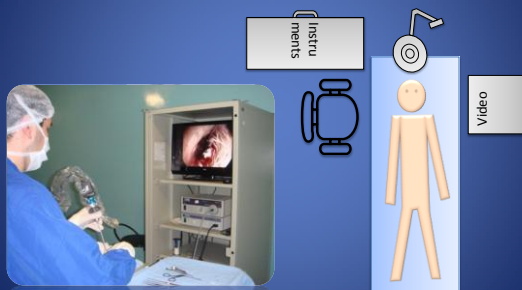
- 10 patients
  - 8 female
  - 2 male
- **Otosclerosis**
- **Bilateral conductive hearing loss**
  - Pre-operative audiogram
- No history of chronic ear infection
- Primary cases

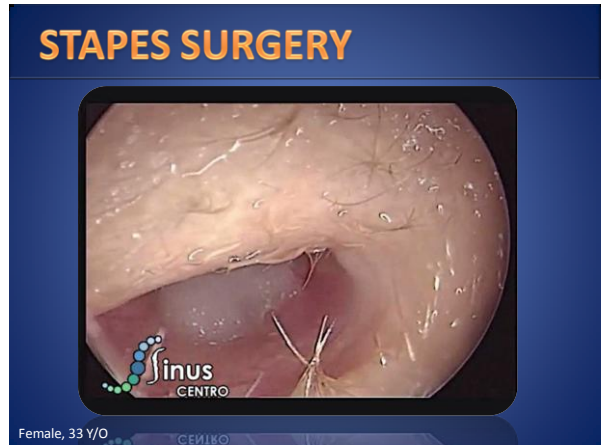
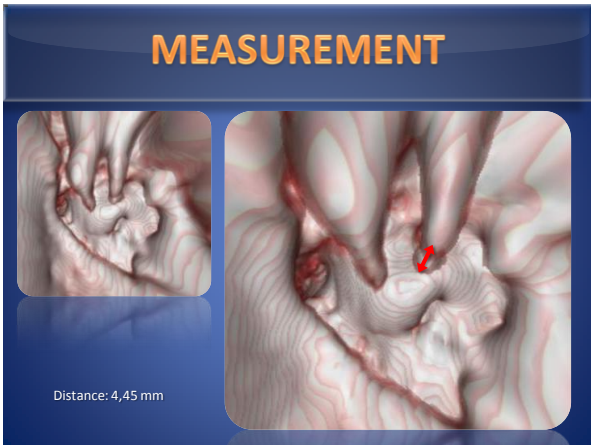
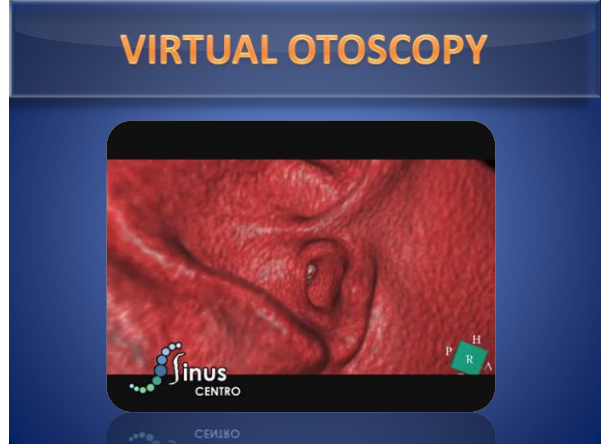
## WHAT DO WE USE ?

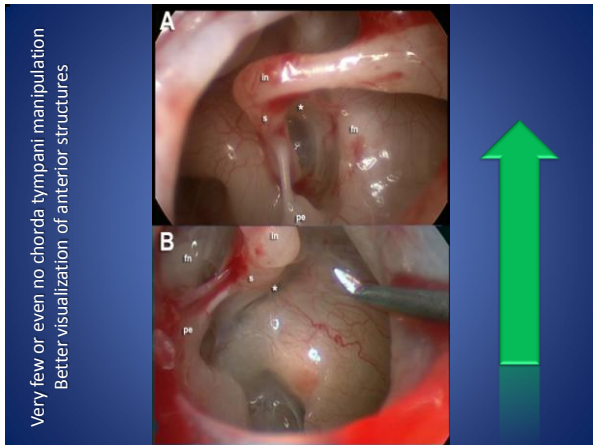
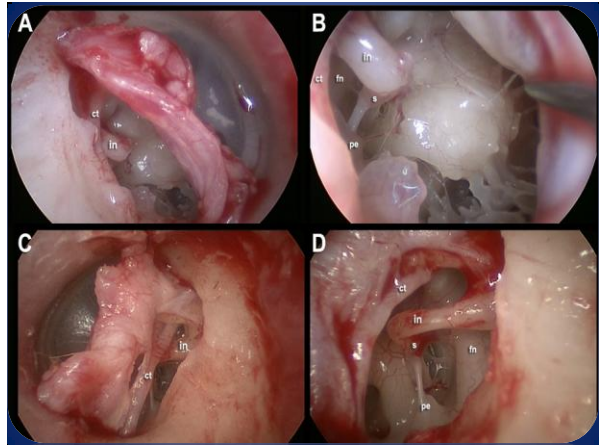
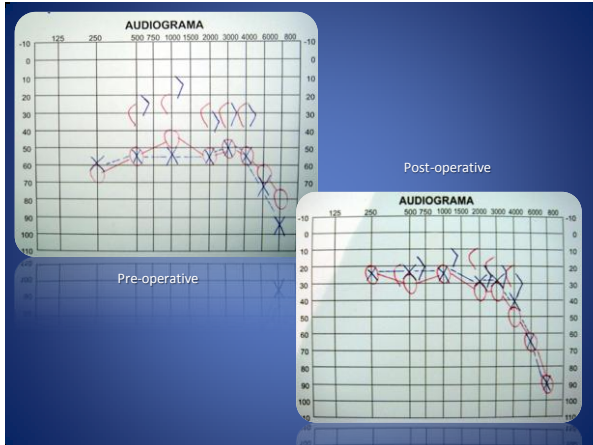
- Endoscopes (4 mm, 0m 30 and 45-degrees)
- Video
- Instruments
- Teflon prosthesis (6 mm length, 0,6 mm diameter)



## POSITIONING







Very few or even no chorda tympani manipulation  
Better visualization of anterior structures

## DISADVANTAGES

- One hand work
- No stereoscopic vision
- Adaptations



Tarabichi M. Endoscopic middle ear surgery. Ann Otol Rhinol Laryngol. 1999;108:39-46.

## CONCLUSION

- **Endoscopes** are very interesting tools
- **Excellent visualization**
- **No complications**
- **All improved hearing (audiograms)**
- **Small series**
- **Learning curve**
- Potential for future
  - Cochlear implants, etc

