

PER BONDING
Herlev Privathospital
Copenhagen, Denmark
perbonding@hotmail.com

THE SURGEONS PRIMARY GOALS

- 1. Complete removal of all keratinizing squamous epithelium from the middle ear cleft and paratympanic cavities = NO RESIDUAL DISEASE.
- 2. Create protection against new retraction pockets/cholesteatoma = NO RECURRENT DISEASE

3.Preservation/restoration of function and creation of an unproblematic ear.



IS RESTORATION OF NORMAL ANATOMY A GOAL FOR THE SURGEON?

NO!

- because
- normal anatomy + underpressure in the middle ear was probably reponsible for the cholesteatoma; and
- better stability and long-term function can often be obtained by a modified anatomy.

BASIC PRINCIPLES

- INDIVIDUALIZED TREATMENT! SELECTION OF PATIENTS FOR MOST SUITED TECHNIQUE
- KNOWLEGDE OF ADVANTAGES AND DRAW-BACKS/RISKS OF THE SURGICAL TECHNIQUES APPLIED
- KNOWLEDGE OF ALL DETAILS IN THE CORRECT PROCEDURE OF THE TECHNIQUE APPLIED
- GOOD SURGICAL TRAINING AND SKILL

Prognosis parameters

- the patient's age
- extent of the disease
- the condition of the opposite ear
- first operation or revision

Also include the possibility for follow-up when deciding which technique to use.

WHICH PROCEDURE?

1. MINOR CHOL. IN THE MIDDLE EAR

2. MINOR CHOL. IN THE ATTIC

3. LARGE CHOL., EXTENDING INTO THE ANTRUM AND MASTOID

1. Minor cholesteatoma, located in the middle ear

Tympanoplasty, with or without measures to prevent new retractions, dependent on age of the patient, condition of the other ear, recurrent disease.

Measures: long-term ventilation tubes cartilage myringoplasty

Use wide access, retroauricular incision recommendable; remove tympanic membrane with squamous epithelium on the medial side.

2. Minor cholesteatoma in the attic

OPTIONS AT ESTIMATED GOOD PROGNOSIS:

- Extended tympanoplasty with partiel atticostomy
- Atticostomy with/without repair of the scutum or modified obliteration
- Canal wall up procedure

AT ESTIMATED BAD PROGNOSIS

Canal wall down procedure

3. Large Cholesteatoma

Canal wall down procedure

is in most cases the recommendable method.

Large mastoids: + obliteration, except at very aggressive disease

Small mastoids: obliteration often not necessary



EARS WITH EXTENSIVE CHOLESTEATOMA: 10-YEAR RESULTS

UNSTABLE EARS*

Age < 15 YEARS > 15 YEARS

Canal wall up 92 % 53 %

Canal wall down 40 % 0

*Operated for Recurrence <u>or</u> Cholesteatoma/deep retraction pockets. at follow-up

(Nyrop M, Bonding P. J Laryngol Otol 1997;111: 521-26)



■ When the cavity is bad.....

and that is often the case, if developed spontaneously after CWU-technique.

About 70 % of patients operated for cholestatoma by CWU technique end up with a cavity.

CWD: HOW TO AVOID OR MINIMIZE CAVITY PROBLEMS?

- Be aware that you will first see the final result after about 3 years and that shrinking of obliteration material is a common phenomenon. So:
- Always try to obtain a nicely rounded cavity with a low facial ridge, and very important with good access through a wide EAM even when you obliterate.
- In fact, it can be recommended to perform meatoplasty in most cholestatoma ears, in order to obtain a wide EAM, and thus creating optimum possibility for safe follow-up.