Tympanoplasty for the Lateralized Tympanic Membrane

Yang Tao, Hidenaga Yamamoto, Kiichiro Shinkawa, Maya Moriyasu, Manami Shinkawa, Sayuri Yano, Yuko Miyamoto and Atsushi Shinkawa

A lateralized tympanic membrane is one of the complications that may arise after surgery of the middle ear. This is mainly due to the layer of skin associated with the tympanic membrane that is displaced outside the ring of the eardrum, and results in conductive hearing loss. As a method of treatment, surgery to return the tympanic membrane to the original position is usually performed, but the results are inconsistent. In many cases, a reconstructed tympanic membrane may become lateralized again when the surgery is performed. For these cases, we have developed a longer artificial ceramic columella to reconstruct the tympanic cavity without changing the position of the lateralized tympanic membrane. Better results have been shown during short-term observation of 6 months.

**Keywords** : lateralized tympanic membrane, conductive hearing loss, long columella

References


Columellas used in our clinic
Upper: Standard ceramic columellas.
Lower: Longer columellas developed for lateralized tympanic membranes.

Hearing level and CT appearance before and after the operation in Case No. 5
a: Preoperative hearing level (75.0 dB).
b: Preoperative CT.
c: Postoperative hearing level (30.0 dB).
d: Postoperative CT.

Hearing level and CT appearance before and after the operation in Case No.14
a: Preoperative hearing level (73.3 dB).
b: Preoperative CT.
c: Postoperative hearing level (38.3 dB).
d: Postoperative CT.