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A new model for training in tympanoplasty

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Functional simulation of middle-ear reconstructions is a desired ambition of otosurgeons. Recently we have introduced a new middle-ear experimental model. It provides a reliable feedback acoustic information, reflecting accurately the functional quality of reconstruction results of a middle-ear ossicular chain. In proposed model the tympanic membrane and ossicular chain have to be recovered reaching a proper sound transmission to the artificial inner-ear receptor. The received signal is converted into the acoustic information and is consecutively applied to the headphone. The reconstruction results can be estimated therefore online while immediately be optimized by a surgeon or a trainee.