



**Supplementary Fig. 3.** In patients with severe otosclerosis, the round window (RW) is also sclerotic. (A) A sclerotic RW is associated with high impedance; the pressure gradient is greatly reduced. (B) Even after stapes surgery, the RW impedance remains high. Note that the pressure gradient is lower than that of Fig. 5A. Therefore, the surgical outcomes in patients with such severe otosclerosis may be somewhat unfavorable.  $R_{sv}$ , resistance of the scala vestibuli;  $R_{st}$ , resistance of the scala tympani;  $R_{rw}$ , resistance of the round window;  $R_{ow}$ , resistance of the oval window.