

活體中耳聽小骨鏈調合力之振動特性

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摘要

The finite element model of the ossicular chain of the patient was built by 3D geometric model of the ossicular chain. The finite element analysis was the excited force analysis to discuss the amplitude at the nodes of the footplate at the frequencies of 125, 250, 500, 750, 1k, 2k, 3k, 4k, 5k, 6k, 7k, 8k Hz, and sound pressure (90 dB) applied at the bottom area of manubrium. Hence, the dynamic characteristic of the in-vivo human ossicular chain could be analyzed.

關鍵字：ossicular chain, vibration analysis, finite element method, computed tomography image