PSC7: Titanium Mesh as an alternative to Isshiki's Thyroplasty Titanium Bridge for Isshiki Thyroplasty Type II

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OBJECTIVES:

GENERAL: To be able to produce an alternative thyroplasty titanium bridge using titanium mesh for thyroplasty type II

SPECIFIC:

- 1. To be able to customize a thyroplasty titanium bridge using commercially available titanium mesh for thyroplasty type II
- 2. To be able to assess the effectivity of using titanium mesh as an alternative to thyroplasty bridge for thyroplasty type II using the validated voice handicap index and PRAAT voice analysis software

STUDY DESIGN: Experimental

SETTING: Tertiary government hospital

PARTICIPANT: Patients seen at the ENT-HNS outpatient department

RESULTS: Post-operative evaluation of patient's voice after using titanium mesh plates as titanium bridge for Isshiki thyroplasty type 2 proved that there was marked improvement on its voice acoustic parameters such as jitter, shimmer, harmonics to noise ratio and fundamental frequency. Thus marked improvement in his voice.

CONCLUSION: Titanium mesh is a good and effective alternative for thyroplasty titanium bridge. Customized thyroplasty bridge using titanium mesh are comparable to expensive thyroplasty titanium bridge used in Isshiki's thyroplasty type II as evidenced by the validated Filipino voice handicap index and PRAAT voice analysis software.

KEYWORDS: mesh, titanium, Ishikki thryoplasty type II, spasmodic dysphonia, adductor spasmodic dysphonia, thyroplasty bridge