

Title: Incidence and associating factors of post-thyroid-lobectomy Hypothyroidism in thai patients at vajira hospital: a retrospective Review

Chayada Chanasriyotin,* Naruporn Marukatat, Piyarat Parklug

Navamindrathiraj University, Thailand

Received Date: January 20, 2022 Accepted Date: January 22, 2022 Published Date: May 17, 2023

Background: A retrospective review of 80 patients who had undergone hemithyroidectomy from 2017 to 2022 at Vajira Hospital. Patients were analyzed for age, sex, weight, height, BMI, underlying medical problems, pre- and postoperative levels of thyroid stimulating hormone (TSH), histologic diagnosis, weight of resected tissue, histologic evidence of thyroiditis, and lag time to diagnosis of hypothyroidism. Kaplan-Meier survival and log rank test was performed.

Results: Of these 80 patients, 38 (47.5%) became hypothyroid post surgery. Using Kaplan-Meier survival analysis, we found probabilities of hypothyroidism at 3, 6, 12 months to be 40%, 44.4% and 49.8%, respectively. Eighteen hypothyroid patients (22.5%) needed supplemental thyroxine within 3 months post surgery while 2 patients (2.5%) required the supplement at 6 months and 2 more patients (2.5%) did so at 12 months. Sixteen patients (20%) developed hypothyroidism but did not require supplemental thyroxine. The remaining 42 patients (52.5%) were euthyroid. No significant difference was seen between the two groups with respect to age, sex, weight, BMI, comorbidities, TSH levels, histology, lag time of diagnosis, or weight of resected gland ($p>0.05$).

Conclusions: We conclude that hypothyroidism after hemithyroidectomy is a common occurrence. It is recommended to follow patients closely for at least 1 year post surgery. Monitoring should include scheduled serial serum TSH draws.

Biography

Chayada Chanasriyotin is Otolaryngologist at Faculty of Medicine, Vajira hospital, Navamindrathiraj university for over 12 years. She was a facial plastic research fellowship in the facial plastic Division, Otolaryngology Head and Neck surgery at Stanford University 2017-2018. She is an instructor at Faculty of medicine, Navamindrathiraj University. She is an advisor of the Otolaryngology research in Navamindrathiraj university. Her research interest is focused on head and neck surgery. She is an expert in thyroid and facial plastic surgery.