

PAPILLARY THYROID CARCINOMA IN A THYROGLOSSAL CYST

Ravi Ramalingam¹, K. K. Ramalingam², A. V. Ramesh³, S. Mahesh Prabhu⁴,
Manu Vergis⁵, N. Ahilasamy⁶

ABSTRACT : *The incidence of Papillary Thyroid Carcinoma in a Thyroglossal Cyst is rare. Only about 160 cases have been reported in the last 85 years. We report a case of Thyroglossal Cyst who underwent Sistrunk's Operation. The Cyst was reported to contain a focus of papillary thyroid carcinoma. In the absence of metastases in thyroid gland and neck nodes, only thyroid suppression with Thyroxine was given. After 1 year of follow-up there are no metastases. The importance of Sistrunk's operation lies not only in complete removal of Thyroglossal Cyst but also in management of small foci of Papillary thyroid Carcinoma.*

Key Words: *Thyroglossal cyst, Papillary carcinoma*

INTRODUCTION

Thyroglossal cyst is a common congenital neck mass resulting from persistence and dilatation of an epithelial tract formed during migration of thyroid during embryogenesis. Thyroid tissue is present in the cyst wall in more than 60% of cases (Maran,1997). We report a rare case of Thyroglossal cyst in which the thyroid tissue in cyst wall showed Papillary carcinoma.

CASE REPORT

A 22 year old female presented to our centre with complaints of a painless swelling in the neck which has been growing slowly in size over last 3 months. On examination there was a 2cms oval, cystic swelling in the subhyoid region to the left of midline. The swelling moved with deglutition and with protrusion of the tongue. X-RAY neck lateral view was normal. Thyroid Function Tests, i.e. T3, T4, TSH and Ultrasonogram of Thyroid gland were normal. I-131 scan did not reveal any cold nodules in the thyroid gland. (Fig. I) There was no uptake of radioactive iodine by the swelling. A diagnosis of thyroglossal cyst was made and the patient underwent excision of the cystic swelling by Sistrunk's operation. The cyst, the body of hyoid and a cuff of central base of tongue were removed.

The histological examination of the swelling revealed a focus of Papillary Carcinoma of Thyroid (Fig. II). The cyst wall had cuboidal lining which was resting on some

granulation tissue and a fibromuscular wall with adipose tissue. One of the fragments showed a papillary lesion composed of true papillae lined by cells with overlapping nuclei, nuclear clearing, intranuclear cytoplasmic inclusions and nuclear grooves. The wall adjacent to this papillary lesion shows dilated cyst with colloid and pigmented macrophages. The patient was put on suppressive treatment of Tab Thyroxine 0.2mg OD. After 1 year patient is asymptomatic. Thyroid function tests and thyroid scan were normal. There was no evidence of secondaries in the neck.

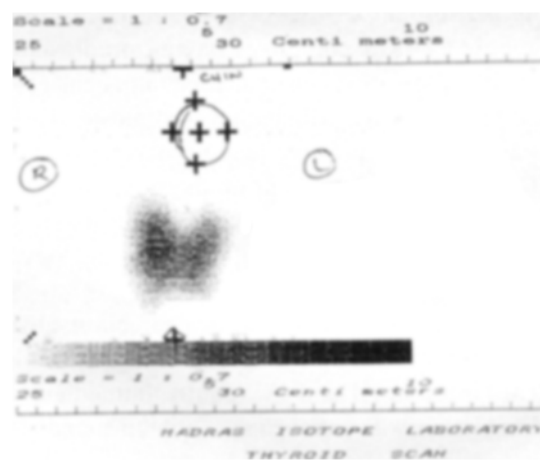


Fig. I : Preoperative thyroid scan showing thyroid in the normal position with no cold nodules. There is no uptake by the thyroglossal cyst.

¹Consultant ENT Surgeon, ²Director & Senior Consultant ENT Surgeon, K.K.R. ENT Hospital & Research Institute & Chinnammal ENT Hospital, ^{3, 4, 5}Registrars, K.K.R. ENT Hospital & Research Institute, ⁶Consultant ENT Surgeon, Chinnammal ENT Hospital, Noombal, Chennai