VOLUME - 15, ISSUE - 07, JULY - 2026 • PRINT ISSN No. 2277 - 8160 • DOI : 10.36106/gjra

Original Research Paper

Pathology

THYROID PARAGANGLIOMA - A RARE CASE REPORT

Dr Choubisa Komal Suresh	Department of Pathology , Government Medical College , Pali (Rajasthan)
Dr.Garima	Associate Professor Department of Pathology , Government Medical College , Pali Rajasthan
Dr. H.P. Toshniwal	Professor and Head Department of Pathology , Government Medical College , Pali Rajasthan
Dr.Dilip Rajpurohit*	Junior Specialist Department of Pathology , Government Medical College , Pali Rajasthan

ABSTRACT **BACKGROUND** Paragangliomas are rare neuroendocrine tumor . Primary paraganglioma are rarely found in the thyroid gland though can be frequently mistaken for thyroid neoplasms.They are presented as enlarging thyroid nodules over several years . Most of the time these are non-functional . These rare neoplasms comprise of around <0.1% of tumors of head and neck .

KEYWORDS : Paragangliomas, Neuroendocrine, Tumor

CASE REPORT

A case of 73 year old female was presented with swelling at right side of the neck since 4 months , swelling moves with deglutination not associated with pain or dysphagia .

USG findings shows bulky right lobe of thyroid with a well defined iso to hypoechoic mass lesion with few central cystic changes and marked internal and peripheral vascularity .

MATERIAL AND METHOD

After receiving the excised specimen tissue processing was done , blocks prepared and H & E staining was done . Histopathological diagnosis was made .

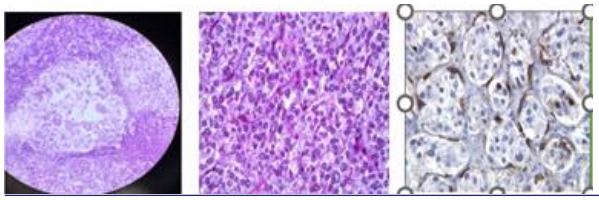
OBSERVATIONS

Gross Examination :

Received grey white encapsulated soft tissue.Mass ms 4x2.5x2cm , cut surface grey brown with 1-2 tiny nodular area ms , 0.5cm .

Microscopic Examination :

Studied H&E sections shows nests of cells surrounds well defined capsule , cells are of two types arranged in Zellbellen pattern surrounded by thin fibrovascular stroma . Tumor cells are chief cells and sustentacular cells with rounded nuclei .



DISCUSSION

Primary thyroid paraganglioma is an uncommon neuroendocrine tumor supposed to originate from inferior laryngeal paraganglia , <1% of paraganglioma originating within in thyroid gland . Possibly due to rare and unexpected occurrence in thyroid gland , this tumor type remain unrecognized. Paraganglioma is a neuroendocrine tumor that originates from sympathetic paraganglia of the autonomic nervous system . Thyroid paraganglioma is slow growing and most patients present with an asympomatic neck mass.

CONCLUSION

Due to rare presentation thyroid paraganglioma is frequently mistaken for other common thyroid neoplasm . The gold standard for diagnosis relies on the histopathological findings and Immunohistochemistry.

REFERENCES

1, Zantour B, Guilhaume B, Tissier F, Louvel A, Jeunemaitre X, Gimenez-Roqueplo AP, et al Athyroid nodule revealing a paraganglioma in a patient with a new germline mutation in the succinate dehydrogenase B gene Eur J Endocrinol. 2004;151:433–8

2. Phitayakorn R, Faquin W, Wei N, Barbesino G, Stephen AE. Thyroid-associated paragangliomas Thyroid. 2011;21:725–733

3, . Pelizzo MR, Conti C, Pennelli G, Bellan E, Cook GJ, Wong KK, et al Thyroid paraganglioma: Our experience and systematic review of the literature on a rare tumor Am J Clin Oncol. 2018;41:416–23