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Case report

Polymyalgia rheumatica and vagal paraganglioma

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ABSTRACT

Introduction: Vagal paraganglioma are rare tumors that are mostly asymptomatic. We report a case of vagal paraganglioma associated with paraneoplastic polymyalgia rheumatica and review the literature on benign paragangliomas of the head and neck associated with paraneoplastic syndrome.

Case report: A 53-year-old man presented with atypical polymyalgia rheumatica. MRI revealed a tumor that was then surgically excised. Histological examination confirmed the diagnosis of benign vagal paraganglioma. Rapid, complete and permanent resolution of all rheumatological symptoms were observed postoperatively, confirming the diagnosis of paraneoplastic polymyalgia rheumatica.

Conclusion: Paraganglioma of the neck associated with paraneoplastic syndrome remains exceptional. A predisposing gene mutation must be systematically investigated. Long-term surveillance must be ensured due to the risk of local recurrence, second tumors or metastasis.

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1. Introduction

Paragangliomas are endocrine tumors arising from the neural crest: 0.3% are localized in the head and neck [1]. Carotid paragangliomas are the most common sites in the neck, followed by tympanojugular sites. Vagal paragangliomas are rare: only about 200 cases have been reported [1]. Paragangliomas of the neck are usually an incidental finding, as they remain asymptomatic or they may present as a neck mass or cranial nerve lesion [2].

We report a case of vagal paraganglioma diagnosed in a context of polymyalgia rheumatica and review the literature on paraneoplastic syndromes (PNS) in the context of benign paragangliomas of the neck.

2. Case report

A 53-year-old male active smoker with a history of intervertebral disc disease consulted with symptoms suggestive of atypical polymyalgia rheumatica. Laboratory tests revealed moderate and fluctuating inflammatory syndrome. PET-CT scan showed a suspicious left retromandibular hypermetabolic lesion (Fig. 1). After MRI assessment, the lesion was resected via a neck incision (Fig. 2).

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Histological examination demonstrated a tumor with nodular architecture associated with abundant, richly vascular collagen stroma. The large tumor cells present abundant clear cytoplasm with a rounded nucleus and no nucleolus. Tumor cells expressed chomogranin and synaptophysin and stromal cells were labelled with anti-PS100 antibody. Finally, the Ki67 proliferation index was less than 1% (Fig. 3). Review of the slides by a REFCOR pathologist confirmed the diagnosis of paraganglioma with no signs of malignancy.

Plasma and urinary catecholamine assays were in favour of a non-secreting tumor and genetic analysis revealed the presence of a constitutional heterozygous c.43C > T(p.Arg15*) mutation of SDHC.

Complete resolution of the rheumatological symptoms and inflammatory syndrome were observed immediately after surgery. In view of completion resolution of rheumatological features after surgery, and absence of recurrence after three years, a diagnosis of vagal paraganglioma presenting in the form of PNS was adopted. Follow-up MRI at one year confirmed the absence of tumor recurrence and CT scan of the neck, chest, abdomen and pelvis at two-year follow-up demonstrated the absence of metastases.

3. Discussion

In this clinical case, the association between PNS (polymyalgia rheumatica) and benign vagal paraganglioma was based on clinical and histological data, resolution of the symptoms after surgery and the absence of distant metastases with a follow-up of 3 years.

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 Table 1

 Paragangliomas of the neck presenting as paraneoplastic syndrome.

	Authors	Site	Gender	Age	Paraneoplastic syndrome	Treatment	Outcome	Follow-up (years)
Benign paraganglioma	Tian et al.	Hypopharyngeal	Female	49	Neurological (encephalomyeli- tis)	Symptomatic: corticosteroid therapy Aetiological: surgical	Remission	Unknown
Malignant paraganglioma	Spraul et al.	Brain metastasis primary site?	Female	52	Exophthalmos	Palliative	Death in 18 months	2 years

Table 2Main paraneoplastic syndromes, classified by organ or system, clinical and laboratory signs and underlying tumors.

Organ or system	Paraneoplastic syndrome	Symptoms	Laboratory parameters	Underlying cancers	
Rheumatological	Polymyalgia	Atypical:	ESR > 100/severe	Haematological	
	rheumatica	asymmetrical, steroid- refractory	anaemia/proteinuria	malignancies Kidney/prostate/breast/colon/lung	
	Rheumatoid	Rapid course,	Absence of	Haematological	
	arthritis	asymmetrical	rheumatoid	malignancies	
			factor	Lung/colon/breast	
	Raynaud's	Asymmetrical	Thrombocytopenia/ANCA/	Haematological	
	syndrome	course/thumb	ANA	malignancies	
		involve-		Liver/ovary/testis/kidney	
Endocrine	SIADH	ment/gangrene Headache/asthenia/memory	Hyponatraemia/sodium	Melanoma Small cell lung cancer	
illuotille	SIADH	disorders excretion/urine		Siliali celi lulig calicei	
		Coma/respiratory	osmolality		
		collapse	osmouncy		
	Hypercalcaemia:	Nausea/vomiting	Serum cal-	Breast	
	PTHrp	Drowsiness/coma	cium > 3.5 mmol/L	Multiple	
	secretion		ARF	myeloma/lymphomas	
	bone			Bone metastases	
	resorption				
	Cushing	HT	Blood and	Lung cancers	
	syndrome	Muscle weak-	urinary cortisol		
Neurological	Encephalitis/cerebellar	ness/oedema Memory,	Onconeuronal	Lung cancers	
recurological	degeneration/Lambert-	cognitive	antibodies	Lymphomas/multiple	
	Eaton	disorders	antibodies	myeloma	
	syn-	Ataxia		my croma	
	drome/myasthenia	Cranial nerve			
	gravis	lesions			
Dermatological	Acanthosis	Cutaneous		Gastric	
	nigricans	hyperpigmen-		adenocarcinoma	
		tation			
	Dermatomyositis	Erythematous	CPK/EMG	Breast/ovary/lung/prostate	
		rash Gottron	Muscle biopsy		
		papules			
	Leukocytoclastic	Purpura/pain/pruritus		Haematological	
	vasculitis	r arpara/pam/pramas		malignancies	
				Lung/GI/urinary tract	
				cancers	
	Sweet's	Erythematous		CML/haematological	
	syndrome	plaques,		malignancies	
		papules, nodules:		Breast/urinary tract and genital/GI	
		face/trunk/extremities		and genital/Gi	
Haematological	Eosinophilia	Asymptomatic ± dyspnoea		Haematological	
		,		malignancies	
				Lung/GI/genital	
	Granulocytosis		WBC: 12 to	Lung/brain	
			$50\times10^9/L$	GI/kidney/genital	
	Thrombocytosis		Platelets > 400,000/L	_	
	Pure red cell			Thymoma	
	aplasia				

ANCA: anti-neutrophil cytoplasmic antibody; ANA: antinuclear antibody; SIADH: syndrome of inappropriate antidiuretic hormone secretion; PTH: parathormone; ARF: acute renal failure; HT: hypertension; CPK: creatinine phosphokinase; EMG: electromyogram; GI: gastrointestinal; CML: chronic myeloid leukaemia; WBC: white blood cell.

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