INVITED REVIEW

Polymyalgia rheumatica: When co-present with Giant cell arteritis, when not?

Ediz Dalkılıç¹ In fact, to answer this question in one sentence, we can say, "It is not clear." The term interrelated diseases can be used for Polymyalgia rheumatica ORCID: 0000-0001-8645-2670 (PMR) and Giant cell arteritis (GCA) [1]. The relationship between GCA and PMR can be compared to the associations between Systemic lupus erythematosus/Antiphospholipid syndrome, Rheumatoid arthritis/ Sjogren's syndrome, or Psoriatic arthritis/Gut disease. Socially, I can define these PMR and GCA as "Two diseases that will make you famous" for young physicians. We can evaluate these two diseases in separate categories as isolated PMR, GCA seen in PMR, isolated GCA, PMR accompanying GCA, and GCA affecting large vessels [2]. When GCA is diagnosed, 40-60% have PMR symptoms, while 15-21% of PMR patients have GCA. Subclinical GCA may be detected in some PMR cases. However, since most of those who underwent temporal artery biopsy were patients with GCA symptoms, this rate is unknown in unselected cases [1,3]. Differences and similar features between PMR and GCA are summarized in Table 1 and 2. Is PMR a limited or early form of GCA? Is PMR a type of vasculitis? Is PMR an auto-immune disease or an autoinflammatory disease? There is no "it" supplement in the name of PMR, findings such as thrombosis, ischemia, and bleeding that we see in vasculitis are very rare, and PMR is not mentioned in the Chapel Hill classification for these reasons, PMR is not considered a primary vasculitis. In terms of auto-immune diseases, the presence of advanced age, the absence of a serological marker, the background of synovitis and its inability to accompany other autoimmune diseases also distract from the classification of autoimmune diseases. In terms of autoinflammatory diseases, advanced age, lack of course in the form of attacks, and the fact that there are constantly very high acute phase reactants also take away from this group [4]. Is there a need for GCA review in all PMR cases? A difficult question. If we consider that one of the five PMR cases may have GCA, we can say "yes" to this question. Still, since this rate is unknown in unselected cases, unnecessary high dose steroid usage may increase, so the patient should be evaluated and decided on a case basis. On the other hand, insufficient steroid dosage may be raised if no investigation is done in patients with symptoms. As imaging methods other than temporal artery biopsy develop, more accurate answers will be given to this question. After PMR treatment is started, close follow-up is required in terms of headache, fatigue in the jaw, tongue, ¹Uludağ University, Faculty of Medicine, Department of Rheumatology, Bursa, Turkey. persistent fever, and eye symptoms. In terms of aortitis, it is necessary to investigate GCA in back pain, leg pain, and increased acute phase reactants. PMR symptoms have been more common in recent years,

Note: This manuscript was reviewed by Sedat Kiraz.

especially in GCA, affecting large vessels, which affects the aorta [4,5].

Table 1. Differences between PMR and GCA

PMR	GCA	
Shoulder and hip pain	Headache	
Movement limitation	Eye involvement	
Morning stiffness	Tongue and jaw claudication	
Low grade fever	Scalp tenderness	
	Fever	

Table 2. Common findings of PMR and GCA

Female	
Advanced age	
Fatique	
Weight loss	
Fever	
Depression	

The differences between the cranial form of GCA and the large vascular involvement form are summarized in Table 3.

As a result, the answer to the question of when PMR is with GCA when is not clear today. Symptoms should be evaluated on a case basis. There are differences between these two diseases regarding **Table 3.** The differences between the predominantcranial form and large vessel involvement form

	Predominant cranial	Predominant LVV
Age at disease onset	65-85 years	50-70 years
Delay to diagnosis	+	++
Constitutional symptoms	++	+++
Cranial ischaemic manifestations	+++	+
Positive temporal artery biopsy	++	+/-
Visual ischaemic complications	+/++	+/-
Polymyalgia rheumatica	++	++/+++
Intermittent limb claudication	+/-	+
Relapses	+/++	++
Glucocorticoid therapy: longer	++	+++

LVV: Large Vessel Vasculitis

the course, prognosis and corticosteroid dosages. Especially in cases with PMR, after treatment begins, the risk of GCA development needs close follow-up.

- REFERENCES Com

- [1] Gonzalez-Gay MA. Giant cell arteritis and polymyalgia rheumatica: two different but often overlapping conditions. Semin Arthritis Rheum. 2004;33(5):289-93.
- [2] Camellino D, Giusti A, Girasole G, Bianchi G, Dejaco C. Pathogenesis, Diagnosis and Management of Polymyalgia Rheumatica. Drugs Aging. 2019;36(11):1015-1026.
- [3] Camellino D, Matteson EL, Buttgereit F, Dejaco C. Monitoring and long-term management of giant cell arteritis and polymyalgia rheumatica. Nat Rev Rheumatol. 2020;16(9):481-495.
- [4] Carvajal Alegria G, Boukhlal S, Cornec D, Devauchelle-Pensec V. The pathophysiology of polymyalgia rheumatica, small pieces of a giant puzzle. Autoimmun Rev. 2020;19(11):102670.
- [5] Mahmood SB, Nelson E, Padniewski J, Nasr R. Polymyalgia rheumatica: An updated review. Cleve Clin J Med. 2020:31;87(9):549-556.