Summary of GCA and PMR

GCA and PMR share:

Burden of

disease is likely to increase with aging population¹



There are limited steroid-sparing options available for these conditions²

PMR



The pathophysiology is thought to involve promotion of proinflammatory Th17 cells and inhibition of regulatory T cells³



- Diagnosis should be considered a **neuro-ophthalmic emergency**⁴
- 80% of patients present with isolated cranial symptoms: headache, scalp tenderness, jaw claudication, and vision issues¹
- Diagnostic delays are more common in patients with • noncranial symptoms⁵
- **Complications can be serious**⁶:
 - Permanent vision loss: 20%
 - Stroke: 3% to 7%
- First-line treatment has limitations⁷:
 - High rate of relapse: 34% to 62%
 - Treatment-related adverse events: 85%
 - Low rates of remission: Up to 20%
- Mean time from symptom onset to diagnosis was 8 weeks⁸



- Involves inflammation in the connective tissues surrounding the tendons and muscles^{9,10}
- Pain restricts the active shoulder range of motion and may impair ٠ sleep and routine daytime activities
- Diagnosis is challenging with nonspecific features that overlap with other rheumatological disorders^{10,11}
- **Prognosis is favorable with prompt diagnosis** and appropriate • treatment; however, up to 50% or patients experience flares upon glucocorticoid tapering or discontinuation^{10, 12}
- Carries an increased risk ratio of CVD (1.15 to 2.70) and inflammatory arthritis¹³
- Average delay from symptom onset to diagnosis is ~12 weeks¹⁴

CVD, cardiovascular disease; GCA, giant cell arteritis; PMR, polymyalgia rheumatica; Th, T-helper. **1.** Bond M et al. Ther Adv Muscuoloskel Dis. 2022;14:1-20. **2.** Charlton R. Ther Clin Risk Manag. 2012;8:173-179. **3.** Robinette ML et al. Front Immunol. 2021;12:623716. **4.** Borg FA et al. Curr Allergy Asthma Rep. 2008;8(4):323-330. **5.** Helliwell T et al. BMJ Open. 2018;8(2):e019320. **6.** Bajko Z et al. Exp Ther Med. 2021;22:876. 7. Dejaco C et al. Nat Rev Rheumatol. 2017;13(10):578-592. 8. Prior JA et al. BMC Med. 2017;15(1):120. 9. Lundberg IE et al. J Intern Med. 2022;292(5):717-732. 10. Nielsen BD, Dasgupta B. Reu tismo, 2018;70(1):1-9, 11, Dejaco C et al, Arthritis Rheumatol, 2015:67(10):2569-2580, 12, Smuthy T et al, J Clin Med, 2019;8(5):582 13. Hancock AT et al. CMAJ. 2014;186(13):E495-E501. 14. Frolund LL et al. Joint Bone Spine. 2021;88(5):105185

