

POLYMYALGIA RHEUMATICA (PMR)

- proceed with caution

Key practice points:

- The classical presentation of PMR is a patient aged >50 years, of European ethnicity, who experiences rapid onset of aching pain and
 morning stiffness lasting >30 minutes, that is predominantly bilateral at the shoulders and/or hip girdle, and may also involve the neck
 - Symptoms are generally worse with inactivity or at night
 - CRP levels are usually raised (or sometimes ESR is raised and CRP is not)
- Assessment of the patient includes:
 - Exclusion of other possible causes of symptoms, e.g. rheumatoid arthritis, active infection
 - Looking for evidence of cranial symptoms, e.g. new-onset temporal headache, temporal artery tenderness, jaw/tongue pain when chewing or visual impairment; this may indicate the patient also has giant cell arteritis (GCA) which is present in one in five patients with PMR, and presents a more serious clinical scenario than PMR alone
- In patients where PMR is likely, a clinical diagnosis can be confirmed by their response to corticosteroid (prednisone) treatment (Table 1)
- The patient's response to prednisone should be primarily based on their clinical status, e.g. ability to perform movements and tasks that were previously impaired symptoms should generally improve within 24–48 hours
 - If there is no response within one week, the diagnosis should be re-considered; if PMR is still considered likely, then a trial of a higher prednisone dose can be considered
 - CRP (or ESR) levels should also be monitored if they were initially raised; these should normalise within two to three weeks
- Following two to four weeks of successful treatment, the dose of prednisone should be gradually tapered (Table 1); this should be done in response to symptom improvement, not CRP (or ESR) alone
 - Relapses are common during this time and if they occur the prednisone dose should be increased back to pre-relapse levels
- PMR is usually a self-limiting condition and there is no evidence that PMR alone increases mortality or causes structural damage
 - While the aim is to stop prednisone use as soon as possible, the average duration of treatment in patients with PMR is 18 months (longer if they have GCA)
 - Long-term treatment decisions should take into account the adverse effects associated with prolonged corticosteroid use on a case-by-case basis, e.g. osteoporosis, adrenal suppression, steroid-induced diabetes and gastritis

Table 1. General treatment regimens for patients with PMR.

	Initial prednisone dose	Tapering protocol once there is a treatment response	Possible duration of treatment
PMR alone	 In general: 15 mg/day for 2-4 weeks Mild symptoms, relevant comorbidities or other risk factors for corticosteroid-related adverse effects, or frail patient: 7.5-10 mg/day Severe initial symptoms: 20 mg/day Refractory symptoms after one week: consider increasing dose from 15 → 20 mg/day 	Reduce by 2.5 mg every 2-4 weeks until at 10 mg/daily, then reduce dose by 1 mg every month; refer patient if dose cannot be decreased below 10 mg/daily	Patients often need to stay on 5 mg prednisone to remain symptom free, with the average duration of use being 18 months. Some patients may need 2–3 years of prednisone use in total (sometimes longer).
PMR + GCA	In general: 60 mg/day for 2-4 weeks (+ refer the patient for temporal artery biopsy) or 1 mg/kg for patients with a low BMI (<18.5 kg/m²)	Most patients should be able to taper from 60 mg to 20 mg daily over 2–3 months, then from 20 mg to 10 mg daily over 2–3 months, then a more gradual tapering from 10 mg (e.g. in 1 mg increments every 4–8 weeks provided there are no relapses)	Patients may need a longer duration of prednisone use than for PMR alone (see above).

Abbreviations: CRP, C-reactive protein; ESR, erythrocyte sedimentation rate.

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