

## South East London Guideline for the Management of Gout in Primary Care

*This guidance was developed on behalf of the South East London Integrated Medicines Optimisation Committee (SEL IMOC) through the Committee's rheumatology sub-group. Development was led by a rheumatology specialist at King's College Hospital with support from the Lambeth borough Medicines Optimisation Team*

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South East London Integrated Medicines Optimisation Committee (SEL IMOC). A partnership between NHS organisations in South East London: South East London Clinical Commissioning Group (covering the boroughs of Bexley/Bromley/Greenwich/ Lambeth/Lewisham and Southwark) and GSTFT/KCH /SLaM/ Oxleas NHS Foundation Trusts and Lewisham & Greenwich NHS Trust

## Diagnosis

**Clinical diagnosis** is important. Common presenting features include:

- Typical joint sites (hallux, mid-foot, ankle)
- One or few joints affected (can be polyarticular in longstanding gout or patients on diuretics)
- Onset of symptoms over hours
- Episodic flares, often with resolution between flares
- Presence of tophi

**Serum urate** testing is important for diagnosis and therapeutic monitoring, with the following caveats:

- Urate levels can be normal during flares; if normal, consider repeat testing 2 weeks after the flare
- Hyperuricaemia without clinical features of gout does not equate to a diagnosis of gout, and is not an indication for urate-lowering therapy.

### Refer to rheumatology if diagnostic uncertainty.

Atypical presentations are common, particularly in elderly patients and women. Gout is highly unlikely in pre-menopausal women.

## Red flags

- Consideration must always be given to **septic arthritis** in any patient presenting with an acutely painful, swollen joint.
- Risk factors for septic arthritis include:
  - Prior joint replacement
  - Pre-existing joint damage
  - Recent intra-articular injection
  - Intravenous drug use
  - Immunosuppression.
- Joint aspiration is the gold standard for diagnosis of gout and exclusion of septic arthritis, but may not be possible in primary care.
- Refer to ED for same-day joint aspiration if septic arthritis is suspected or being considered.

## Treatment of flares

**Colchicine** 500 micrograms TDS (OD/BD if CKD or elderly), typically for 5-7 days.

or

**NSAID** (e.g. naproxen 500mg BD) with gastroprotection, typically for 5-7 days.

or

**Prednisolone** 20-30mg OD with gastroprotection, typically for 5-7 days; for polyarticular or resistant flares or if contraindications to colchicine and NSAIDs.

- *Choice of treatment depends on risk factors and patient preference.*
- *Colchicine use in clinical practice and as recommended in guidelines often exceeds the maximum 6mg per course referenced in the BNF.*
- *Suggested colchicine doses in CKD: 500 micrograms BD if GFR 30-60 ml/min; 500 micrograms OD if GFR 15-30 ml/min; avoid if GFR <15 ml/min.*
- *Check for [medication interactions](#) with colchicine, e.g. statins, macrolides.*
- *Choice of prednisolone dose depends on individual risk factors, including infection risk, patient weight and comorbidities.*
- **Do not stop urate-lowering therapy (ULT) during flares.**
- *Advise patient to return if symptoms worsen or if no improvement in 1-2 days.*
- *Advise patients to commence treatment as soon as possible after the onset of symptoms; consider providing patients with a **rescue pack**, to be initiated at the onset of flare symptoms.*
- **Adjunct measures** include rest, ice and elevation of the affected joint.
- *Combination therapy can be considered in treatment-resistant flares.*

## Advice for patients, GPs and self-care

- **Education** should be provided for all patients on the diagnosis, how to manage flares, and the importance of ULT in preventing flares, disability and gout-associated comorbidities, such as renal impairment.
- Provide written information on gout and commonly used medications; available at [Versus Arthritis](#) and [UK Gout Society](#).
- Provide lifestyle advice: **reduce consumption of purine-rich foods** (e.g. shellfish, red meat), fructose (e.g. sweetened drinks) and alcohol
- Advise good intake of fruit, vegetables, fibre and low-fat dairy products.
- Advise maintaining a healthy weight (reduces urate levels).
- **Screen patients for comorbidities** annually, including diabetes mellitus, dyslipidaemia, hypertension and renal impairment.
- **Limit the use of diuretics**, where possible.

## Prevention of flares: urate-lowering therapy

**First line:** Initiate **allopurinol** 100mg OD (50mg OD if renal impairment), then uptitrate in 100mg increments (50mg increments if renal impairment) every 4 weeks until a serum urate  $\leq 300$  micromol/L is achieved.

**Second line:** Initiate **febuxostat** 80mg OD instead of allopurinol, if allopurinol contraindicated or ongoing flares despite maximally tolerated allopurinol. Increase to 120mg OD after 4 weeks if required to achieve serum urate  $\leq 300$  micromol/L.

**Refer to rheumatology:** if ongoing flares despite maximally tolerated allopurinol/febuxostat, contraindications to both medications, or if flares despite a urate persistently  $\leq 300$  micromol/L.

**Consider prophylaxis against flares during ULT initiation and uptitration** (typically for 3-6 months). **First line:** colchicine 500 micrograms OD or BD. **Second line:** low-dose NSAID with gastroprotection, unless contraindicated.

- *ULT should be offered to **all patients** with gout, including first flares.*
- *ULT should be strongly encouraged if any of the following: recurrent flares, tophi, persistent arthritis, joint damage, renal impairment, urolithiasis, diuretic use, comorbidities or diagnosis of gout at a young age.*
- **ULT can be initiated during flares, alongside treatment for the flare.**
- **Allopurinol doses >300mg OD are frequently required to achieve urate targets.** Maximum recommended dose is 900mg daily in normal renal function (doses above 300mg should be split). If GFR 20-60 ml/min, max. recommended dose is 300mg daily. If GFR <20 ml/min, seek rheumatology advice.
- *Seek rheumatology advice if GFR <30 ml/min and febuxostat being considered.*
- *Check renal function before initiating ULT. Check LFTs before initiating febuxostat and periodically during treatment (e.g. after dose changes or if signs of liver dysfunction).*
- *Consider referral to a **practice pharmacist**, if available, to facilitate ULT titration.*
- *Patient information leaflets are available for [allopurinol](#) and [febuxostat](#).*
- *Patients initiating ULT should be advised to **monitor for a new rash**; stop medication and seek medical attention if so. Severe cutaneous reactions are rare (0.1-0.4%) but more common in patients of Asian and Black ethnicity. Patients with previous hypersensitivity reactions to allopurinol are at increased risk of [hypersensitivity reactions to febuxostat](#).*
- *Do not initiate [allopurinol](#) or [febuxostat](#) in patients taking azathioprine or mercaptopurine (risk of fatal myelosuppression).*
- *Avoid febuxostat in patients with [pre-existing major cardiovascular disease](#), e.g. MI, stroke.*
- **ULT should continue lifelong; most patients flare within 5 years of stopping. Consider annual monitoring of urate levels to ensure patients remain at target.**