

Management of Gout

Indications for urate-lowering therapy, first-line agent selection, treat-to-target, genetic testing, flare management, and lifestyle guidance.

GRADE

Strong

Cond. For

Cond. Against

Strong Against

ULT = urate-lowering therapy; XOI = xanthine oxidase inhibitor; SU = serum urate.

1 When to Initiate ULT

INITIATE / CONSIDER

Strong	Initiate ULT — ≥1 subcutaneous tophi , radiographic damage attributable to gout, or frequent flares (>2/yr).
Cond.	Consider ULT — >1 prior flare but infrequent (<2/yr).
Cond.	Consider ULT — first flare only if CKD stage >3 , SU >9 mg/dL, or urolithiasis.

2 First-Line Agent & Dosing

AGENT SELECTION

Strong	Allopurinol preferred over all other ULT, including febuxostat and probenecid.
Strong	XOI preferred over probenecid if CKD stage >3.
Strong Against	Avoid pegloticase as first-line therapy.

3 Treat-to-Target & Duration

STRATEGY & TARGET

Strong	Treat-to-target dose titration preferred over fixed-dose.
Strong	Titrate/maintain SU <6 mg/dL .
Cond.	Augmented monitoring protocol with SU checks and further titration.

4 Genetic Testing & Special Populations

HLA-B*5801 TESTING

Cond.	Test before allopurinol if Southeast Asian (Han Chinese, Korean, Thai) or African-American descent.
Cond.	Do not test in other populations.

5 Managing Gout Flares

FIRST-LINE THERAPY

Strong	Oral colchicine , NSAIDs, or glucocorticoids (oral/IA/IM).
Strong	Low-dose preferred over high-dose colchicine.
Strong	NPO patients — IM, IV, or intra-articular glucocorticoids.

6 Lifestyle & Diet

Cond.	Limit alcohol , purine intake , and high-fructose corn syrup , regardless of disease activity.
Cond.	Weight loss recommended if overweight/obese.
Cond.	Do not add vitamin C as gout-specific therapy.

AGAINST ULT

Cond.	First flare without the above risk factors.
Cond.	Asymptomatic hyperuricemia (SU >6.8 mg/dL, no flares/tophi).

DOSING & PROPHYLAXIS

Strong	Start allopurinol/febuxostat low-dose with titration to mitigate AHS risk.
Cond.	Probenecid — start low-dose 500mg 1–2×/day.
Strong	Start concomitant anti-inflammatory prophylaxis (colchicine, NSAIDs, or steroids); continue 3–6 mo, extend if flares/tophi persist.
Cond.	May start ULT during an active flare rather than after.

DURATION & RESPONSE

Cond.	Continue ULT indefinitely rather than stopping once target/flare-free.
Strong	Frequent flares/nonresolving tophi despite target SU — switch to alternate XOI .
Strong Against	Infrequent flares, no tophi — do NOT add/switch agent.

OTHER CONSIDERATIONS

Cond.	Consider desensitization if history of allopurinol hypersensitivity.
Cond.	Prefer allopurinol over febuxostat if CVD history or new CV event.
Cond.	Do not routinely check urinary uric acid or alkalinize urine.

ALTERNATIVES & ADJUNCTS

Cond.	Colchicine-contraindicated — IL-1 inhibition over no therapy.
Cond.	Topical ice as adjuvant.