

Guidance to support the primary care team manage a patient with acute gout

Learn how to determine the best treatment options for a patient suffering an acute gout attack using key resources and tools through MedicinesComplete.

Expert, evidence-based knowledge to support the best patient care











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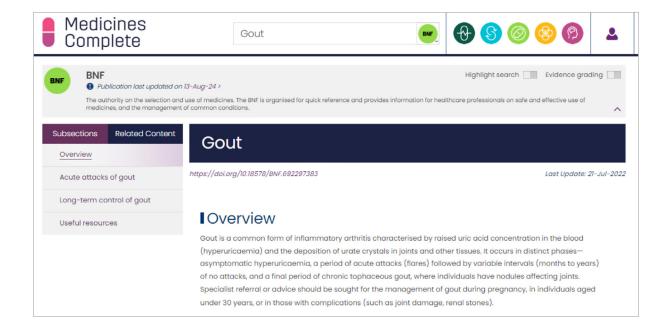
Jim, a 67-year-old man, presents to his GP practice with a suspected acute gout attack.

He explains that over the past two days one of his big toes has become extremely painful and swollen. He describes being treated for gout some years ago when he had similar symptoms. Jim is currently taking aspirin 75 mg and atorvastatin 40 mg daily for cardiovascular disease. His medical history also includes chronic kidney disease (CKD), and his most recent eGFR was measured as 45 mL/minute/1.73 m².

Assess treatment options using MedicinesComplete

After examination, the GP refers to British National Formulary (BNF) on MedicinesComplete to check the current management advice for acute gout.

The 'Gout' treatment summary in BNF provides information on the usual treatment options for acute attacks of gout. These are colchicine, high doses of a non-steroidal anti-inflammatory drug (NSAID), or a short course of an oral corticosteroid.







Jim's care record shows that he was treated with an NSAID for his previous gout flare, however the GP would prefer to avoid using an NSAID given Jim's impaired renal function. The GP therefore decides to look at colchicine as a treatment option.

The GP begins by checking the dosage card for colchicine on MedicinesComplete to confirm the dose and assess its suitability for Jim.



Clicking on the dosage banner expands the dosage card to display the available dosing information for colchicine in BNF, BNF for Children (BNFC), and Martindale: The Complete Drug Reference (Martindale). Selecting the icons at the top of the dosage card allows switching between BNF, BNFC, and Martindale, to see the available dosing information in each of these publications.







The dosage card provides a detailed breakdown of each indication and dose for colchicine. For BNF and BNFC, this includes any dose adjustments required due to drug interactions.



The GP confirms that the standard dose of colchicine for acute gout in BNF is 500 micrograms 2 to 4 times a day, to be taken until symptoms are relieved. The total dose per course should not exceed 6 mg and a course should not be repeated within 3 days. Clicking 'Important safety information' highlights that colchicine has a narrow therapeutic window and there is a risk of serious and fatal toxicity in overdose.

Jim has CKD, and therefore the GP needs to check whether any adjustments to the standard dose are required, and if any other considerations are needed when using colchicine in renal impairment. Selecting 'Read more' displays the full prescribing information in the BNF colchicine drug monograph. Selecting 'Renal impairment' from the list of available monograph sections displays advice on the use of colchicine for patients with renal impairment.

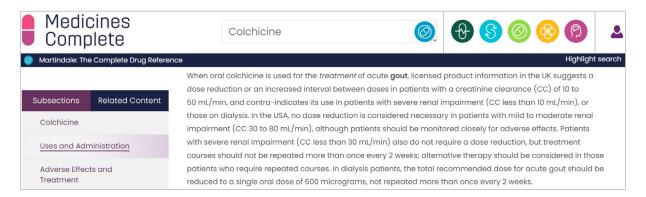


The GP contacts the practice pharmacist to check what dose adjustment would be appropriate for Jim. The GP also asks the pharmacist to check for potential interactions with Jim's current medications.



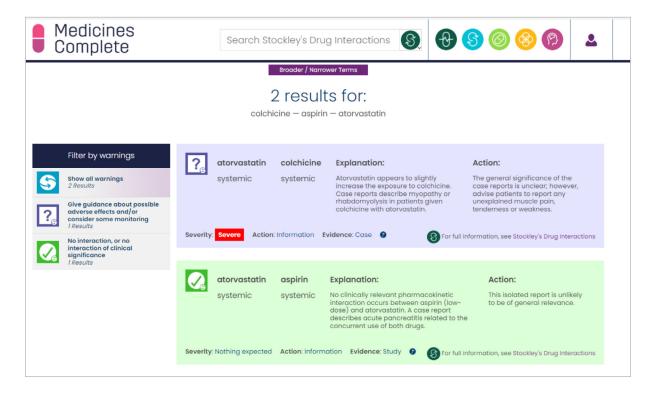


The pharmacist begins by checking for guidance on the dose of colchicine in patients with CKD. BNF advises to use with caution, and to reduce the dose or increase the dosage interval if eGFR 10–50 mL/minute/1.73 m². Martindale concurs that this advice reflects UK recommendations. The pharmacist decides that increasing the dosage interval is a practical option, given that only 500 microgram tablets are available.



Check for potential interactions using Stockley's Interactions Checker

The pharmacist then checks for interactions with Jim's existing drug regimen and refers to Stockley's Interactions Checker, by selecting the light blue icon at the top of the screen. Two results are shown, with an action suggested for a potential interaction between atorvastatin and colchicine. Jim should be advised to report any unexplained muscle pain, tenderness, or weakness.







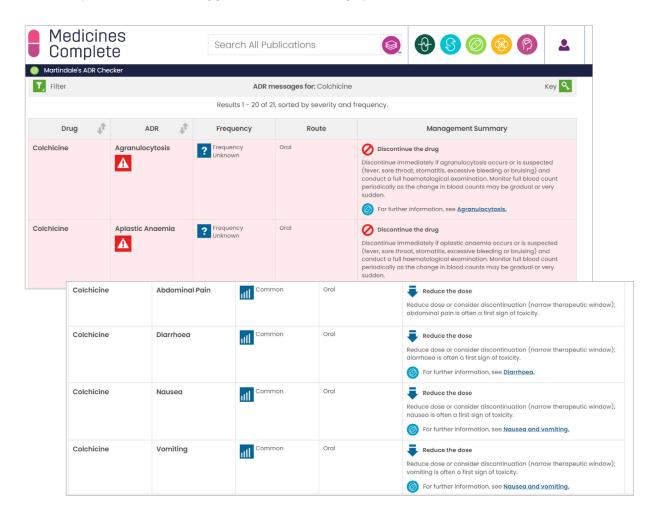
Clicking on the Stockley's Drug Interactions icon at the bottom of each interaction message links to the full interactions' monograph, with a summary box, detailed information on the 'Clinical evidence' supporting the interaction, the 'Mechanism', and its 'Importance and management' in practice. Each monograph is fully referenced.

The pharmacist decides to check whether any other advice should be given to Jim to ensure that colchicine is used safely and effectively.

Identify and prevent adverse drug reactions (ADRs) using Martindale's ADR Checker

The pharmacist refers to Martindale's ADR Checker to check for reported ADRs to colchicine, by selecting the light green icon at the top of the screen.

The search box in Martindale's ADR Checker enables a search by individual drug or multiple drugs, drug group(s), ADR(s), and body system. The results are listed in order of severity and frequency. Potentially severe ADRs are flagged with a red warning symbol.

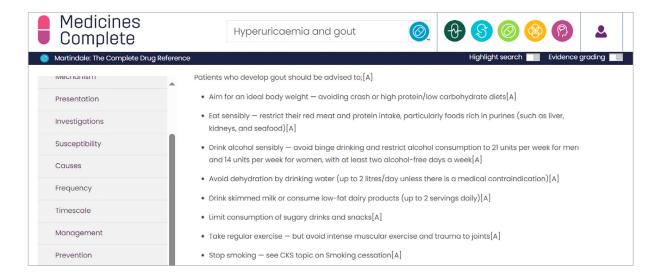






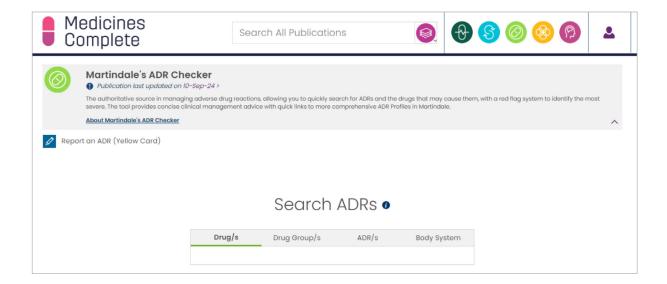
Common ADRs for colchicine include abdominal pain, diarrhoea, nausea, and vomiting. Jim should be advised to be alert for any of these reactions. Severe ADRs include aplastic anaemia. Jim should be advised to seek immediate medical attention if he develops symptoms of infection such as fever, sore throat, mouth ulcers, or excessive tiredness.

The 'Management Summary' on the right of the screen gives guidance on the action to be taken if an ADR occurs. Where available, a link to a Martindale ADR profile provides further information on an ADR – this includes information on the mechanism, causes, management, and prevention of ADRs. The ADR profile for 'Hyperuricaemia and gout' provides lifestyle advice for patients who develop gout.



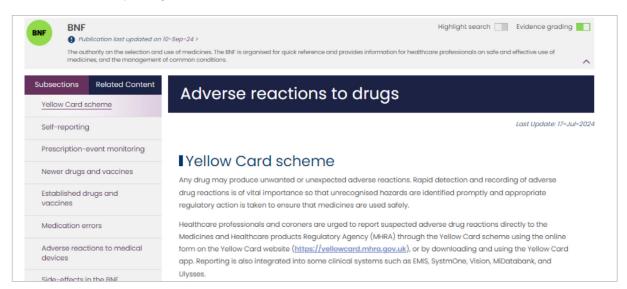
Report ADRs (side effects) via the MHRA Yellow Card scheme

If a serious suspected ADR occurs with colchicine, this should be reported via the MHRA Yellow Card scheme, even if the effect is well recognised. The Yellow Card reporting site is easily accessed via Martindale's ADR Checker by clicking on 'Report an ADR'.





The Yellow Card reporting site can also be accessed via BNF.



Additional counselling points

BNF drug monographs include a 'Patient and carer advice' section for drugs with special counselling needs. For colchicine, this section includes advice on reporting signs and symptoms of colchicine toxicity and blood disorders. It also recommends counselling patients, and, if appropriate, their carers, on how colchicine should be used for the treatment of acute gout.



Next steps

After consideration of the available evidence-based information, the GP and the pharmacist concluded that colchicine is a reasonable choice of therapy for Jim, although the frequency of administration should be reduced due to his CKD. Jim should be given lifestyle advice and counselled on how to safely use colchicine for acute gout, the potential adverse effects of its use (including in combination with atorvastatin), and what to do if adverse effects occur. Following the acute gout attack, options for the long-term control of gout should be considered.







Stockley's Drug Interactions

Stockley's Drug Interactions reliably supports health professionals decide the best course of action regarding drug interactions to deliver the best patient outcomes. Expertly authored, Stockley's Drug Interactions covers interactions between therapeutic drugs, proprietary medicines, herbal medicines, foodstuffs, drinks, pesticides, and drugs of abuse.



Stockley's Drug Interactions

Stockley's Interactions Checker supports health professionals safely manage the selection of drugs at the point of care. This essential tool provides a simple snapshot of the severity, description, and management guidance and links to the full record in Stockley's Drug Interactions if further detail is required.



Martindale: The Complete Drug Reference

Health and industry professionals globally rely on Martindale: The Complete Drug Reference for concise and specific detail to quickly understand the characteristics and clinical uses of drugs, herbals, and other pharmaceutical substances.



Martindale's ADR Checker

Martindale's ADR Checker provides concise clinical management advice with a severity flag system to support health professionals when managing patients with adverse drug reactions. Answers can be found quickly, summarised by frequency, age and route. Further detail is available through indepth ADR Profiles in Martindale: The Complete Drug Reference.



British National Formulary

Practical and evidence based, BNF is the only drug formulary in the world that is both independent, and has rigorous, accredited content creation processes. An integral part of the UK's healthcare infrastructure and relied on by health professionals who prescribe, dispense, and administer medicines globally, BNF supports safe and effective decision-making at the point of care.



Access this essential knowledge today

MedicinesComplete makes it easy for health professionals to access essential medicines information at the point of care. Providing trusted evidence-based knowledge for confident decision-making and effective patient care.



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