

**Document type**Article • [Gold Open Access](#) • [Green Open Access](#)**Source type**

Journal

ISSN

1985207X

DOI

10.51866/cr.65

[View more](#)

Delayed hypersensitivity reaction to allopurinol: A case report

Man, Mohammad Che^a; Alhadi, Shahidah Che^b; Mahmud, Wan Fatimah Suriyani Wan^a ; Amiruddin, Salman^c; Razib, Mohd Zhafri Mohd^a; Ismail, Rasimah^d

[Save all to author list](#)^a Department of Family Medicine, Kulliyah of Medicine, International Islamic University Malaysia, Indera Mahkota Campus, Pahang, Kuantan, Malaysia^b Department of Surgery, Kulliyah of Medicine, International Islamic University Malaysia, Indera Mahkota Campus, Pahang, Kuantan, Malaysia^c Fakulti Perubatan, Universiti Sultan Zainal Abidin (UniSZA), Terengganu, Kuala Terengganu, Malaysia^d Department of Internal Medicine (Dermatology), Kulliyah of Medicine, International Islamic University Malaysia, Indera Mahkota Campus, Pahang, Kuantan, Malaysia[Full text options](#) [Export](#) 

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#)

Related documents

Allopurinol-Induced Severe Cutaneous Adverse Drug Reactions: An Analysis of Spontaneous Reports in Malaysia (2000–2018)

Lee, S.C. , Wo, W.K. , Yeoh, H.S. (2021) *Therapeutic Innovation and Regulatory Science*

Reply

Hay, C.A. , Mallen, C.D. , Belcher, J. (2022) *Arthritis Care and Research*

Initiation Dose of Allopurinol and the Risk of Severe Cutaneous Reactions in Older Adults With CKD: A Population-Based Cohort Study

Bathini, L. , Garg, A.X. , Sontrop, J.M. (2022) *American Journal of Kidney Diseases*

[View all related documents based on references](#)

Find more related documents in [View PDF](#)
Scopus based on:

[Authors >](#) [Keywords >](#)

Abstract

Allopurinol is the well-known first-line treatment option for symptomatic hyperuricaemia and gout. It is cost-effective particularly for the management of chronic gout. The common early side effects of allopurinol are skin rashes, diarrhoea and nausea. Meanwhile, a dangerous concerning complication is Stevens–Johnson syndrome, which can cause severe morbidity and mortality. Delayed hypersensitivity to allopurinol is rare but should be one of the differential diagnoses if a patient with underlying gout on chronic allopurinol treatment presents with skin rashes. The present case highlights the importance

of a high index of suspicion in at-risk patients with underlying gout along with skin rashes on long-term allopurinol treatment to avoid unnecessary patient management. © 2023, Academy of Family Physicians of Malaysia. All rights reserved.

Author keywords

Allopurinol; Delayed hypersensitivity; Rashes; Xanthine oxidase inhibitor

Indexed keywords ▼

SciVal Topics i ▼



Chemicals and CAS Registry Numbers ▼

Metrics ▼

References (9)

[View in search results format >](#)

All

CSV export ▼  Print  E-mail  Save to PDF

[Create bibliography](#)

-
- 1 Sukasem, C., Puangpetch, A., Medhasi, S., Tassaneeyakul, W.
Pharmacogenomics of drug-induced hypersensitivity reactions: Challenges, opportunities and clinical implementation [\(Open Access\)](#)

(2014) *Asian Pacific Journal of Allergy and Immunology*, 32 (2), pp. 111-123. Cited 40 times.

apjai.digitaljournals.org/index.php/apjai/article/download/1634/1183

-
- 2 FitzGerald, J.D., Dalbeth, N., Mikuls, T., Brignardello-Petersen, R., Guyatt, G., Abeles, A.M., Gelber, A.C., (...), Neogi, T.
2020 American College of Rheumatology Guideline for the Management of Gout [\(Open Access\)](#)

(2020) *Arthritis Care and Research*, 72 (6), pp. 744-760. Cited 392 times.

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)2151-4658](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)2151-4658)

doi: 10.1002/acr.24180

[View at Publisher](#)

[View PDF](#)

-
- 3 Brandt, O., Bircher, A.J.
Spättypreaktionen durch oral und parenteral applizierte Arzneimittel [\(Open Access\)](#)

(2017) *JDDG - Journal of the German Society of Dermatology*, 15 (11), pp. 1111-1134. Cited 14 times.

[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1610-0387](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1610-0387)

doi: 10.1111/ddg.13362_g

[View at Publisher](#)

-
- 4 Yang, C.-Y., Chen, C.-H., Deng, S.-T., Huang, C.-S., Lin, Y.-J., Chen, Y.-J., Wu, C.-Y., (...), Chung, W.-H.
Allopurinol use and risk of fatal hypersensitivity reactions a nationwide population-based study in Taiwan

(2015) *JAMA Internal Medicine*, 175 (9), pp. 1550-1557. Cited 141 times.

<http://archinte.jamanetwork.com/article.aspx?articleid=2397733>

doi: 10.1001/jamainternmed.2015.3536

[View at Publisher](#)

- 5 Do, M.D., Mai, T.P., Do, A.D., Nguyen, Q.D., Le, N.H., Le, L.G.H., Hoang, V.A., (...), Bardin, T.

Risk factors for cutaneous reactions to allopurinol in Kinh Vietnamese: Results from a case-control study ([Open Access](#))

(2020) *Arthritis Research and Therapy*, 22 (1), art. no. 182. Cited 13 times.
<http://arthritis-research.com/>
doi: 10.1186/s13075-020-02273-1

[View at Publisher](#)

- 6 Choon, S.-E., Lai, N.-M.

An epidemiological and clinical analysis of cutaneous adverse drug reactions seen in a tertiary hospital in Johor, Malaysia

(2012) *Indian Journal of Dermatology, Venereology and Leprology*, 78 (6), pp. 734-739. Cited 44 times.
doi: 10.4103/0378-6323.102367

[View at Publisher](#)

- 7 Stamp, L.K., Barclay, M.L.

How to prevent allopurinol hypersensitivity reactions?

(2018) *Rheumatology (Oxford, England)*, 57 (1), pp. i35-i41. Cited 40 times.
doi: 10.1093/rheumatology/kex422

[View at Publisher](#)

- 8 Ely, J.W., Stone, M.S.

The generalized rash: Part I. Differential diagnosis ([Open Access](#))

(2010) *American Family Physician*, 81 (6), pp. 726-734. Cited 31 times.
<http://www.aafp.org/afp/2010/0315/p726.pdf>

[View at Publisher](#)

- 9 Li, S., Yang, H., Guo, Y., Wei, F., Yang, X., Li, D., Li, M., (...), Wang, Y.

Comparative efficacy and safety of urate-lowering therapy for the treatment of hyperuricemia: A systematic review and network meta-analysis ([Open Access](#))

(2016) *Scientific Reports*, 6, art. no. 33082. Cited 60 times.
www.nature.com/srep/index.html
doi: 10.1038/srep33082

[View at Publisher](#)

[View PDF](#)

👤 Mahmud, W.F.S.W.; Department of Family Medicine, Kulliyah of Medicine, International Islamic University Malaysia, Indera Mahkota Campus, Pahang, Kuantan, Malaysia; email:wsuriyanie@gmail.com

© Copyright 2024 Elsevier B.V., All rights reserved.

About Scopus

[What is Scopus](#)

[Content coverage](#)

[Scopus blog](#)

[Scopus API](#)

[Privacy matters](#)

Language

[日本語版を表示する](#)

[查看简体中文版本](#)

[查看繁體中文版本](#)

[Просмотр версии на русском языке](#)

Customer Service

[Help](#)

[Tutorials](#)

[Contact us](#)

ELSEVIER

[Terms and conditions ↗](#) [Privacy policy ↗](#)

All content on this site: Copyright © 2024 Elsevier B.V. ↗, its licensors, and contributors. All rights are reserved, including those for text and data mining, AI training, and similar technologies. For all open access content, the Creative Commons licensing terms apply.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies ↗.



[View PDF](#)