

Allopurinol Induced Aplastic Anemia in a Gout Case

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Introduction : Gout is a relatively common problem in Iran (1). According to Iranian Pharmacopia Allopurinol is indicated for treatment. Allopurinol is reported to induce bone marrow suppression and aplastic anemia (2, 3). This study is aimed at reporting aplastic anemia due to allopurinol from the first time from Iran. **Case Report :** A 45 year male admitted due to weakness and fatigue in rheumatology department, Imam Reza Hospital. On admission, WBC was 2400 (PMN 22%, Lymph 64%), Hgb 7.6 g/dL, PLt 70000 and normal other indices. He was receiving 600 mg Allopurinol per day for 3 years prior to admission. In bone marrow aspiration and biopsy a hypocellular marrow (20%) was reported with fat cells among bone layers. Different hematological cell lines were also reported with dominancy in lymphocytes and macrophages with hemosydrin. Allopurinol withdrawn immediately and supportive management were performed. The patient was discharged with moderate recovery in blood indices. A two months follow up reveals persistent bone marrow suppression. **Discussion :** Timing of these findings suggests drug induced side effects, which was happened after long term use. Although this side effects has been reported before, as far as we know this is the first time that long term use of allopurinol has caused aplastic anemia. **References :** 1. Azarm T, Saghafi MR Cyclosporine therapy of severe Aplastic anemia. JOURNAL OF ISFAHAN MEDICAL SCHOOL 2002; 67(20): 12-9. 2. LinksLin YW, Okazaki S, Hamahata K, Watanabe K, Usami I, Yoshibayashi M, Akiyama Y, Kubota M. Acute pure red cell aplasia associated with allopurinol therapy. Am J Hematol. 1999 Jul;61(3):209- 11.

[✦Top](#)