

# Cytarabine-induced Inflammation of Seborrheic Keratosis in a patient diagnosed with Acute Myelogenous Leukemia

Kingsley Odega, MS3, Preeya T. Shah, M.D., Shira E. Lanyi, MD, Sarah E. Gradecki, M.D., Barrett J. Zlotoff, M.D.

## Background and Purpose

Cytarabine-induced inflammation of seborrheic keratosis is a rare reaction that has only been reported a few times in the past<sup>1-5</sup>. We report a similar finding in a 66-year-old female patient with pseudo-vesicular inflammatory eruption soon after undergoing induction chemotherapy for Acute Myelogenous Leukemia.

## Case Description

- A 66-year-old female was admitted to the hospital for 7+3 induction chemotherapy.
- She received cytarabine for seven days and daunorubicin for three days.
- Several days into treatment, she developed a pruritic rash that involved multiple pre-existing seborrheic keratoses (Figure 1).

## Histology

Histology demonstrated (Figure A and B):

- Seborrheic keratoses with underlying superficial perivascular lymphocytic infiltrate
- Extravasated RBCs within dermis
- Negative GMS, fite stains
- Negative bacterial, fungal, and AFB tissue cultures



Figure 1 (before)



Figure 2 (after)

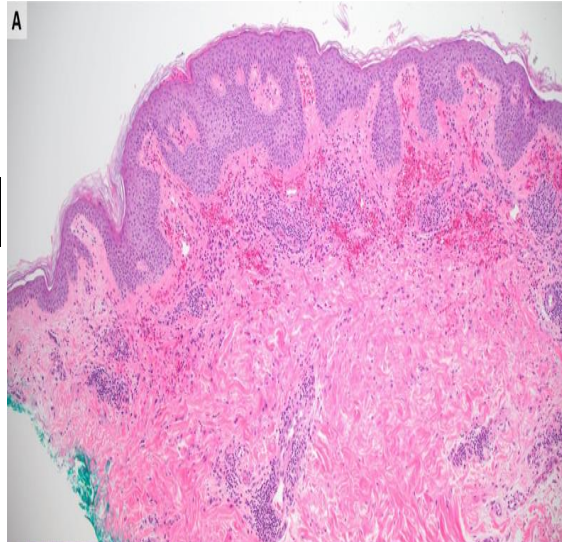


Figure A

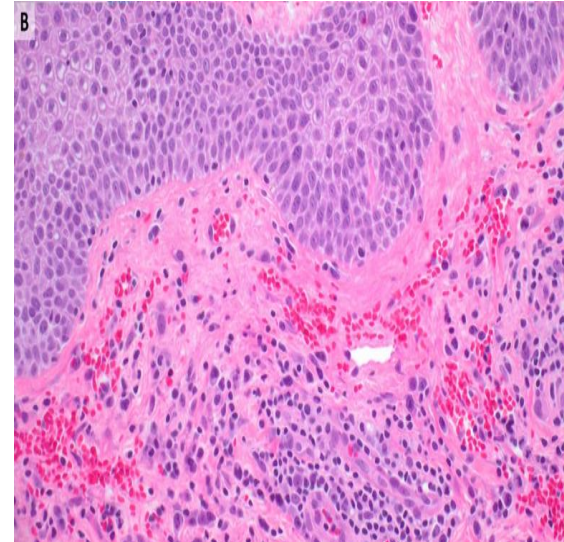


Figure B

## Intervention and Outcome

- Treatment is typically supportive with topical steroids, antihistamines, and analgesics.
- Resolution occurred following discontinuation of the drug, and completion of cytarabine treatment (Figures 2).

## References

1. Kechijian P. Cytarabine-Induced Inflammation in the Seborrheic Keratoses of Leser-Trélat. *Ann Intern Med.* 1979;91(6):868. doi:10.7326/0003-4819-91-6-868
2. Patton T, Zirwas M, Nieland-Fisher N, Jukic D. Inflammation of seborrheic keratoses caused by cytarabine: a pseudo sign of Leser-Trélat. *J Drugs Dermatol JDD.* 2004;3(5):565-566.
3. Lilly E, Granter SR, Haynes HA, Ibrahim OA. Chemotherapy-induced inflammatory seborrheic keratoses in a man with acute myeloid leukemia: a variant of Leser-Trélat sign? *Cutis.* 2012;90(5):235-236.
4. Williams JV, Helm KF, Long D. Chemotherapy-induced inflammation in seborrheic keratoses mimicking disseminated herpes zoster. *J Am Acad Dermatol.* 1999;40(4):643-644. doi:10.1016/s0190-9622(99)70455-x
5. Greer KE, Hawkins H, Hess C. Leser-Trélat associated with acute leukemia. *Arch Dermatol.* 1978;114(10):1552.