



SKIN CANCER (OTHER THAN MELANOMA)

EXTRANODAL NATURAL KILLER/T-CELL LYMPHOMA WITH HEMOPHAGOCYTIC SYNDROME: A CASE REPORT

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Background: Extranodal natural killer/T-cell lymphoma, nasal type (ENKTCL) is a rare while aggressive type of Non-Hodgkin's lymphoma. ENKL accompanied with hemophagocytic syndrome(NK/T-LAHS) features a poor performance status.

Observation: An 18-year-old Chinese male presented a single ulcer in the left thigh, without any subjective symptoms or positive systemic signs. The primary lesion was a skin-colored fixed-and-hard nodule, which was gradually enlarged, with black scabs on its top. When the black scabs fell off, the ulceration beneath was exposed. The histopathological examination was taken, which showed mixed lymphocyte infiltration hinting infection. The bacterial culture and drug-sensitive test revealed MSSA infection. Anti-bacterial therapy was given, but there was no significant improvement. 2 months Later, the patient presented with high fever and fatigue, with a similar nodule appeared in the other thigh. Physical examination revealed an ulcer in the right side of his uvula. The biopsy was taken again. The result showed a infiltration of small sized lymphoid cells along the dermo-epidermal junction and infiltrated blood vessels with fibrinoid change. Immunohistochemical staining with markers including CD3, CD56 and CD43 were positive, In situ hybridization for EBER, T-cell intercellular antigen and GranzymeB staining revealed positive results, while CD20 ,CD30, CD68, CD123 were netative, Ki-67 showed high cell proliferation of about 80%. Laboratory tests showed cytopenias affecting three lineages in the peripheral blood, elevated LDH, ferritin and soluble CD25 levels, accompanied with reduced fibrinogen levels. Splenomegaly was found in the B-ultrasound. The bone marrow aspiration revealed focal hemophagocytosis. The diagnosis of NK/T-LAHS was confirmed. By now, the patient had been treated with two cycles of the SMILE regimen, and is still in close follow-up.

Key message: Early diagnosis of NK/T-LAHS and appropriate treatment are essential for prognosis. While the complex performance and lack of specific symptoms complicates the early diagnosis.

