

Generalized leukemia cutis as the initial presentation of pre-B-cell acute lymphoblastic leukemia

Kanoje Priyanka Kamlesh¹, Geeti Khullar¹, Amit Kumar Yadav²

Departments of ¹Dermatology and ²Pathology, Vardhman Mahavir Medical College and Safdarjung Hospital, New Delhi

Introduction

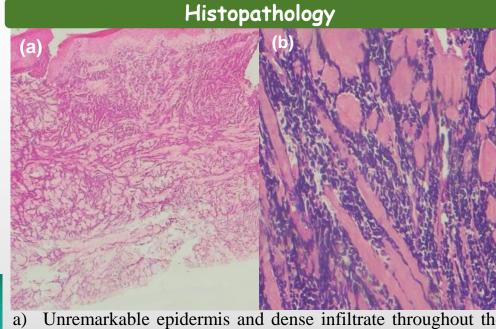
- Pre-B-cell acute lymphoblastic leukemia (ALL) is uncommon, accounts for 2% of all acute leukemias
- Leukemia cutis occurs in 1-3% of ALL cases and is even rarer ٠ in pre-B-cell ALL

Case description

- An 18-year-old male presented with 4-month history of asymptomatic erythematous nodules and plaques on face, trunk and extremities
- No history of fever, weight loss or systemic symptoms

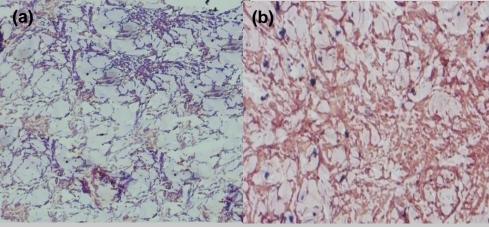


- (a) Single well-defined erythematous hard nodule with focal areas of yellowish-white crusting over right eyelid, encroaching upon the right eye. Small erythematous firm nodule present over left upper eyelid
- (b) Erythematous indurated nodulo-plaque with punched-out centre over left axilla.
- (c) Erythematous plaques with adherent crusting on bilateral legs.



- Unremarkable epidermis and dense infiltrate throughout the dermis (H&E, 40X)
- Medium to large-sized, round tumor cells in Indian file pattern present between collagen bundles (H&E, 200X)

Immunohistochemistry



Tumor cells positive for (a) CD19 and terminal (b) deoxynucleotidyl transferase (TdT)

Investigation

Peripheral blood sr FNAC (inguinal ly

Flow cytometry marrow)

CSF analysis

CT scan (whole bo

Patient was treated with Modified Berlin-Frankfurt-Munster-95 protocol, with complete resolution of cutaneous and extracutaneous lesions at 1 year and is under follow-up

- ALL is uncommon
- is infrequent

Poster ID: 7

	Result
mear	Normal
mph node)	Hypercellular with monomorphic blast cells
y (bone	56% of blast cells, positive for CD79a, CD19, CD10, CD20, CD45, suggestive of B-cell origin
	Normal
ody)	Involvement of nasal cavity, sinuses, frontal lobe, retroperitoneal and inguinal lymph nodes, bone, skin metastases
acted with	Modified Doulin Enoultfunt

Conclusion

Leukemia cutis as the first manifestation of pre-B-cell

Majority of cases described in children, rare in adults Usually localized, generalized distribution as in our case

Reference

Campuzano-Garcia AE, Torres- Alvarez B, Castanedo- Cazares JP. Leukemia cutis in a patient with pre B-cell acute lymphoblastic leukemia. JAAD Case Rep. 2015;1:364-7