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## Leukemia Cutis in Acute Myeloid Leukemia with Monocytogenic Differentiation (M5)

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### 1. Clinical Image

A 76-year-old male presented to the emergency department with one year of generalized weakness, 20 lbs weight loss, and physical deconditioning. In the preceding one month he had developed a non-tender and non-pruritic widespread nodular erythematous rash, seen in Figure 1, 2, and 3. He had leukocytosis of 19000 per cubic milliliter, but the rest of the complete blood count and comprehensive metabolic panel were within normal limits. Skin biopsy of the right lateral thigh showed a perivascular lymphocytic infiltrate in the dermis, with positive staining for CD56, CD43 CD45 and BCL2, seen in Figure 4. He was diagnosed with leukemia cutis. A bone marrow biopsy revealed increased blasts with scant baso-philic cytoplasm and enlarged nuclei. 30% population of immature myeloid cells was detected with coexpression of CD4, CD11b, CD13, CD14, CD15, CD33, CD38, CD45 (bright), CD56, CD64

(bright), CD123 (weak), and HLA-DR. Patient was diagnosed with acute myeloid leukemia with monocytogenic differentiation (M5). He was initiated on Vidaza and venetoclax. Unfortunately, the patient passed away 2 weeks later due to rapid progression of the disease.



**Figure 1**: Non-tender and non-pruritic widespread nodular erythematous rash of the lower extremities.

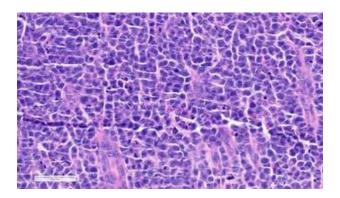


**Figure 2**: Non-tender and non-pruritic widespread nodular erythematous rash of the torso.

Volume 7 Issue 20-2024 Clinical Image



**Figure 3**: Non-tender and non-pruritic widespread nodular erythematous rash of the face.



**Figure 4**: Skin biopsy of the right lateral thigh nodular rash revealing a perivascular lymphocytic infiltrate in the dermis, with positive staining for CD56, CD43 CD45 and BCL2, consistent with leukemia cutis.