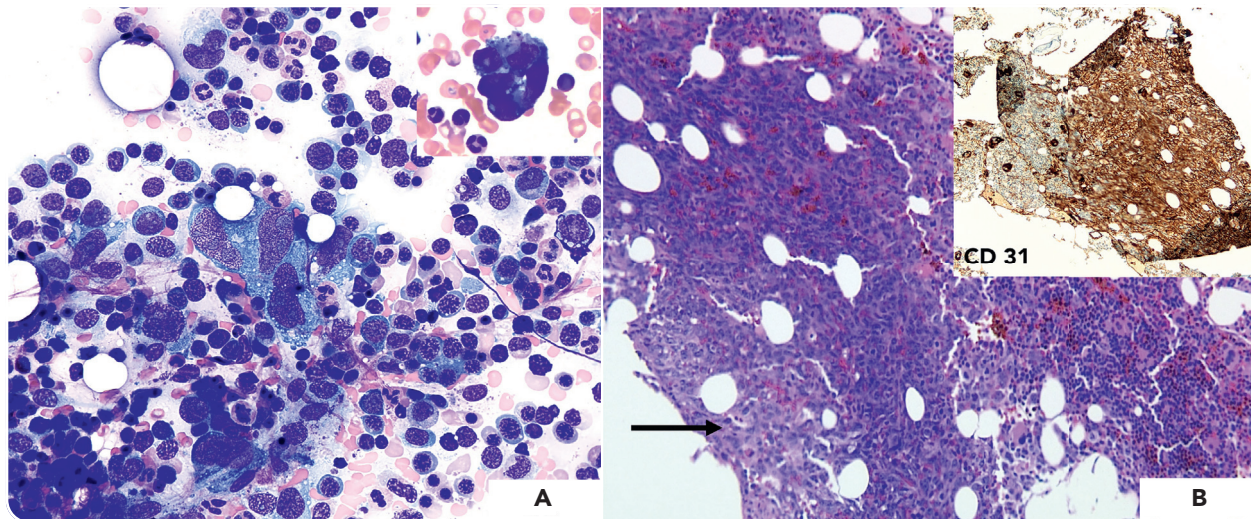


Metastatic angiosarcoma in a bone marrow biopsy

Sharon Koorse Germans and Olga K. Weinberg, University of Texas Southwestern, Dallas



A 37-year-old man presented with bilateral deep vein thrombosis and a rapidly growing mass in the right lower extremity, which was diagnosed as angiosarcoma. He received 8 cycles of paclitaxel and targeted radiation. Six months from diagnosis, a metastasis to the left scapula was found. Three months later, he presented with numbness, fatigue, hematuria, and a rapid decrease in hemoglobin and platelet count. Laboratory evaluation included a hemoglobin concentration of 62 g/L, platelet count of $6 \times 10^9/L$, and a white blood cell count of $14.1 \times 10^9/L$. The peripheral blood smear showed a leukoerythroblastic blood picture. Bone marrow aspirate revealed clusters of large, pleomorphic epithelioid cells with vacuolated cytoplasm (panel A,

hematoxylin and eosin stain; original magnification $\times 500$; inset, original magnification $\times 400$) in a background of erythroid predominant trilineage hematopoiesis. The core biopsy examination revealed a hypercellular marrow replaced by sheets of highly pleomorphic epithelioid cells (panel B, hematoxylin and eosin stain; original magnification $\times 400$, arrow points to metastatic cells). The diagnosis was confirmed by positive staining for CD31 and CD34 (panel B, inset, original magnification $\times 200$).

Metastatic sarcoma to the bone marrow is unusual. This case highlights a rare case of metastatic angiosarcoma involving the bone marrow as a cause for new-onset cytopenias.