Painful Lesions in a Pancytopenic Patient

Case Study

Ms. P is a 46-year-old female who visited a walk-in clinic with a two- to three-week history of flu-like symptoms that included a fever higher than 38.5°C (101°F), chills, and night sweats. She also was experiencing anorexia and fatigue and reported a 15-pound weight loss. She added that her children had been sick with the flu during this time. She was placed on a seven-day course of antibiotics and told to return to the clinic after completion of the antibiotics. One week later, the symptoms persisted and she developed shortness of breath and increasing fatigue. At the clinic, a chest x-ray and complete blood count were performed. An elevated white blood count (109,000/mm³) prompted the physician to immediately refer her to an oncologist in the area. She then was transferred to the medical center with a tentative diagnosis of acute leukemia.

During the hospital admission interview, Ms. P denied any significant past medical history other than knee surgery 10 years prior and scarlet fever as a child. Her mother died of lung cancer at age 67, and her father died of a cerebral vascular accident at age 72. She had no known allergies and was only taking ibuprofen as needed. Noted on Ms. P’s right elbow. Tape from a previous IV site had been removed near this area, so it was first thought to be a reaction to the tape. However, subcutaneous nodules were discovered on the lower extremities. The following day, lesions were seen over the tunnel track of Ms. P’s central venous catheter. Although only one set of blood cultures had grown gram-positive, coagulase-negative Staphylococcus, the recommendation of the infectious disease service was to start vancomycin. Ms. P’s laboratory reports included the following results: white blood count = 400 cells/mm³; bands = 2%; segmented neutrophils = 12%; lymphocytes = 85%; no blasts; and absolute neutrophil count (ANC) = 56.

What clinical condition could best describe these lesions, seen in the photos, based on the patient’s diagnosis, physical findings, and diagnostic test results?

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