An Unusual Association of Chronic Recurrent Multifocal Osteomyelitis, Pyoderma Gangrenosum, and Takayasu Arteritis

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To the Editor:

Chronic recurrent multifocal osteomyelitis (CRMO) is hypothesized to be an autoimmune disorder because of its association with multiple autoimmune diseases, including inflammatory bowel disease, psoriasis, acne, pustulosis, Sweet syndrome, dyserythropoietic anemia, pyoderma gangrenosum (PG), sclerosing cholangitis, inflammatory arthritis, Still disease, Takayasu arteritis (TA), Ollier disease, and dermatomyositis.

PG association with TA is rare; however, Ujiie, et al showed that PG is associated with TA in 33% of patients.

Occurrence of all 3 conditions together (CRMO, PG, and TA) is very rarely reported.

A 10-year-old girl born to nonconsanguineous parents presented with a history of intermittent swelling over the right side of the mandible, associated with pain and claudication pain over legs and back with breathlessness on exertion for the past 2 years. She also developed ulcerative cauliflower-like skin lesions over the dorsum of left foot over the past 2 months (Figure 1). On examination, her pulses were absent in the carotid, brachial, radial, popliteal, and dorsal pedis on left side, and the right femoral, popliteal, and dorsal pedis. Right-sided carotid bruit was heard. Cauliflower-like skin lesion was present over the dorsum of left foot. She had a bony swelling of the body of the right mandible. The rest of the systemic examination was unremarkable. Ethics approval was not required in accordance with the policy of our institution and the patient’s father’s written informed consent to publish was obtained.

Her investigations revealed hemoglobin of 9.1 gm/dl with total count of 13,900 cells/mm³ and platelets of 503,000 cells/mm³. Her erythrocyte sedimentation rate (ESR) was 57 mm/h and C-reactive protein (CRP) was 122 mg/l. Her renal and liver function tests were normal. Serum complements were normal and antinuclear antibody was negative. Routine, fungal, and acid-fast bacillus culture from the ulcerative lesion were sterile. Bone scan showed increased pooling of tracer in the mandible region, suggestive of subacute inflammation. Bone biopsy from the mandible was consistent with chronic osteomyelitis. Skin biopsy was suggestive of PG. Her sedimentation rate (ESR) was 57 mm/h and C-reactive protein (CRP) was 122 mg/l. Her renal and liver function tests were normal. Serum complements were normal and antinuclear antibody was negative. Routine, fungal, and acid-fast bacillus culture from the ulcerative lesion were sterile. Bone scan showed increased pooling of tracer in the mandible region, suggestive of subacute inflammation. Bone biopsy from the mandible was consistent with chronic osteomyelitis. Skin biopsy was suggestive of PG. Her sedimentation rate (ESR) was 57 mm/h and C-reactive protein (CRP) was 122 mg/l. Her renal and liver function tests were normal. Serum complements were normal and antinuclear antibody was negative. Routine, fungal, and acid-fast bacillus culture from the ulcerative lesion were sterile. Bone scan showed increased pooling of tracer in the mandible region, suggestive of subacute inflammation. Bone biopsy from the mandible was consistent with chronic osteomyelitis. Skin biopsy was suggestive of PG. Her sedimentation rate (ESR) was 57 mm/h and C-reactive protein (CRP) was 122 mg/l. Her renal and liver function tests were normal. Serum complements were normal and antinuclear antibody was negative. Routine, fungal, and acid-fast bacillus culture from the ulcerative lesion were sterile. Bone scan showed increased pooling of tracer in the mandible region, suggestive of subacute inflammation. Bone biopsy from the mandible was consistent with chronic osteomyelitis. Skin biopsy was suggestive of PG. Her sedimentation rate (ESR) was 57 mm/h and C-reactive protein (CRP) was 122 mg/l. Her renal and liver function tests were normal. Serum complements were normal and antinuclear antibody was negative. Routine, fungal, and acid-fast bacillus culture from the ulcerative lesion were sterile. Bone scan showed increased pooling of tracer in the mandible region, suggestive of subacute inflammation. Bone biopsy from the mandible was consistent with chronic osteomyelitis. Skin biopsy was suggestive of PG.

Figure 1. A. Swelling over the right side of mandible. B. Cauliflower-like skin lesion was seen over dorsum of left foot. C. Descending thoracic aorta showing long segment of mild narrowing at lower thoracic aorta with some areas of mild dilation just above the level of the diaphragm.
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Figure 2. A. Resolution of lesion over the right side of mandible. B. Healing of pyoderma gangrenosum over dorsum of left foot.