



This feature will challenge your diagnostic acumen with a glimpse of x-rays, electrocardiograms, and photographs of conditions that real urgent care patients have presented with.

If you would like to submit a case for consideration, please e-mail the relevant materials and presenting information to editor@jucm.com.

Figure 1.



Severe Ankle Pain and Swelling

Case

A 12-year-old presents with severe ankle pain and swelling after twisting an ankle while jumping off a tree limb.

View the image taken (**Figure 1**) and consider what your diagnosis would be.

Resolution of the case is described on the next page.

THE RESOLUTION

Figure 2.



Diagnosis

Salter-Harris IV fracture of the ankle (**Figure 2**).

Learnings

Note the fracture lines (*arrows*) through the epiphysis, growth plate, and metaphysis of the distal tibia. Salter-Harris IV fractures involve all three elements of the growing bone. Injuries of this type to the distal tibia are complex injuries and usually result from high-energy forces. Most of these require surgical fixation and require urgent referral to an orthopedic surgeon for treatment.



Figure 1.



Hard, Painless Masses on the Shin

Case

A 17-year-old presents with hard, painless masses on the shin.

View the image taken (**Figure 1**) and consider what your diagnosis would be.

Resolution of the case is described on the next page.

THE RESOLUTION

Figure 2.

**Diagnosis**

Osteochondromatosis (Figure 2).

Learnings

Osteochondromatosis is an inherited disorder in which multiple osteochondromas (*black arrows*), or benign tumors in the form of cartilage-capped bony projections, are seen throughout the skele-

ton. Patients may have anywhere from 2 osteochondromas to hundreds of them. Most are incidentally found in adolescents on x-rays. If osteochondromas are not discovered incidentally, patients present in the first or second decade of life with palpable bony masses and limb shortening. Complications of osteochondromas include fractures, bony deformities, neurologic and vascular injuries, bursa formation, and malignant transformation.