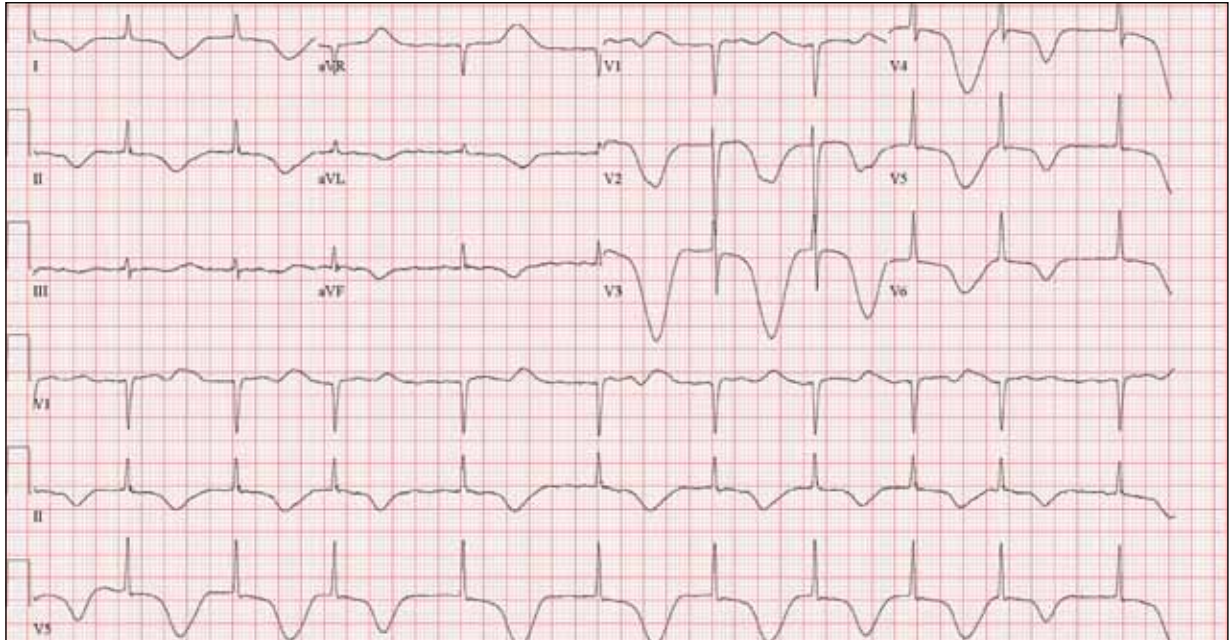


Neighbor Finds Man on Knees, Vomiting



A 68-year-old man was found on his knees, vomiting, in his backyard by a neighbor early this morning. When asked if he was OK, the patient responded that he suddenly felt nauseated and had a headache. The neighbor helped him to his feet and, noticing that his left leg and arm were weak, called 911.

During that time, the neighbor observed slurred speech. As they waited for the ambulance to ar-

rive, the patient was able to say that this was the worst headache he'd ever had. When the paramedics arrived, they recorded a blood pressure of 198/120 mm Hg, consistent in both arms.

Medical history is remarkable for hypertension, paroxysmal atrial fibrillation, adult-onset diabetes, and nephrolithiasis. Surgical history is remarkable for appendectomy, cholecystectomy, and lithotripsy.

The patient is a retired civil engineer who lives at home alone. His wife died three years ago of complications from uterine cancer. He has one adult son who is in excellent health but lives on the opposite coast. The patient has never smoked and drinks approximately one six-pack of beer per month.

Current medications include

hydrochlorothiazide, metformin, and rivaroxaban. He is allergic to sulfa-containing medications.

A complete review of systems is not obtained, given the patient's slurred speech and progressive aphasia. He is able to nod *yes* or *no* to specific questions, and no significant symptoms or findings are identified.

At the hospital, the patient is agitated and in apparent distress, with severe headache and aphasia. Vital signs include a blood pressure of 180/110 mm Hg; pulse, 60 beats/min; respiratory rate, 14 breaths/min; and temperature, 98.4°F. The O₂ saturation is 96.4% on room air.

Pertinent physical findings include aphasia, oculomotor nerve palsy, nuchal rigidity, and findings of a left-sided (right hemispheric) progressive hemiparesis.

continued on next page >>



Lyle W. Larson, PhD, PA-C, is clinical faculty in the Department of Medicine, Division of Cardiology, Cardiac Electrophysiology, at the University of Washington, Seattle.

Woman Complains of Knee Pain Following Fight

A 35-year-old woman presents for evaluation of left knee pain secondary to an assault. She says she was involved in a fight and was struck multiple times throughout her whole body. She states she is “sore all over,” but her knee bothers her the most, as it is difficult and painful to bear weight.

The patient’s medical history is unremarkable. Physical exam shows a young female who is uncomfortable but in no obvious distress. Her vital signs are normal.

You note bruises throughout her body. Inspection of her left knee shows no obvious deformity or swelling. There is some mild bruising and pain present to palpation. She has limited flexion and extension secondary to pain. However, the joint itself appears stable.

Radiographs of the knee are obtained. What is your impression?

see answer on page 20 >>



Nandan R. Hichkad, PA-C, MMSc, practices at the Georgia Neurosurgical Institute in Macon.



ECGCHALLENGE

>> continued from previous page

The remainder of the physical examination is noncontributory.

Samples are drawn for laboratory testing, and an ECG is obtained prior to the patient’s transfer to radiology for CT of the head. The ECG findings include a ventricular rate of 62 beats/min; QRS duration, 88 ms; QT/QTc interval, 718/728 ms; P axis, not measured;

R axis, 35°; and T axis, 209°.

What is your interpretation of this ECG?

ANSWER

The correct interpretation of this ECG includes atrial fibrillation and ST- and T-wave changes consistent with a central nervous system hemorrhage, as well as a

markedly prolonged QT interval.

The most common ECG alterations seen in cases of acute subarachnoid hemorrhage include repolarization abnormalities due to imbalance of autonomic cardiovascular control. While ST depression is more common in patients with poor outcomes, it is not predictive. **CR**