64-year-old woman, A.L., was admitted to the oncology unit for neoadjuvant chemotherapy for a new diagnosis of breast cancer. On admission, the patient was alert and oriented. She was mildly obese and ambulated with a walker. She reported normal bowel and bladder function and described a “pain and stiffness” in her left leg.

Her past medical history included frequent falls at home, which she attributed to joint disease. Magnetic resonance imaging showed spinal stenosis and lumbar spine disease. Two months prior to the current hospitalization, A.L. had a breast biopsy for a right breast mass. Histopathology revealed invasive ductal carcinoma and ductal carcinoma in situ. Estrogen and progesterone receptors were positive, HER2-neu receptors were negative, and 2 of 10 axillary lymph nodes were positive, which confirmed stage III disease.

Neoadjuvant treatment was ordered with four cycles of doxorubicin, cyclophosphamide, and docetaxel every 21 days. Because of limited mobility, A.L. received her treatments as an inpatient on the oncology unit.

After two cycles, A.L. reported increased pain and stiffness in her legs and back and spent most of her time in bed. She had lumbar spinal decompression surgery with little improvement in her symptoms. On her third cycle, she reported spasms in her knees when she flexed her ankles or inverted her toes. The spasms increased when she was anxious and with certain noises (e.g., IV pump beeping, doors opening and closing). She received opioid analgesics for pain and baclofen for leg spasms. Differential diagnoses included hyper-excitability neuromuscular disorders and dystonia, in addition to spinal degenerative arthritis.

After completing chemotherapy, A.L. went to a rehabilitation facility and was then readmitted to the hospital for a right breast mastectomy. After a brief stay on the postsurgical unit, she transferred to the oncology unit. Her neurologic state progressively declined, and she continually screamed in pain. Her leg spasms increased 10-fold with sudden noises even at low-volume intensities, and she developed contractures in both legs (see Figure 1). She was unable to focus or hold a short conversation. She had to be prompted to swallow food and medications, and she lost 30 pounds. Serum and cerebrospinal fluid (CSF) anti-ampiphysin antibody testing was ordered; the results were positive. She was diagnosed with paraneoplastic stiff person syndrome (SPS).

**Stiff Person Syndrome**

SPS is a rare paraneoplastic neurologic disorder characterized by underlying primary malignancy and progressive impairment of the central nervous system (CNS) (Greenlee, 2010). Paraneoplastic disorders are immune-mediated and are not related to metastatic disease, cancer treatment, or disease-related comorbidities such as infections or coagulopathies (Dalmau & Rosenfeld, 2013; Kannoth, 2012). The syndrome is an antibody response to antigens on the surface of a cancerous tumor and is thought to be the body’s immune response to eliminating tumor cells (Byrne, Isakoff, Rincon, &