Herpes zoster, or shingles, is characterized by unilateral radicular pain and a vesicular rash that is generally limited to a single dermatome. It results from reactivation of latent varicella-zoster virus (VZV) within the sensory ganglia. The incidence and severity of herpes zoster increase with advancing age; more than half of all persons in whom herpes zoster develops are older than 60 years. Zoster occurs with higher frequency in HIV-infected persons, and it may occur at any stage of HIV infection.

A 65-year-old black Hispanic man whose HIV infection had been diagnosed 1 year ago but had never been treated, presented to the clinic with rash and moderate pain in the right side of his chest of several days’ duration. The rash had been preceded by discomfort. His CD4+ cell count was 343/µL, and his HIV RNA level was 23,500 copies/mL.

On examination, the patient had an erythematous, maculopapular, vesicular rash in the T8 dermatome distribution of the right side of his chest. A diagnosis of shingles was made on the basis of the typical presentation, and it was later confirmed by a culture of a sample taken from one of the blisters. He received treatment with oral acyclovir 800 mg 5 times a day for 7 days. One week later, there were no new lesions, and a keloid scar started to develop. The pain, however, continued with the same intensity.

Two months later, when the lesion had healed completely (Figures 1 and 2), the patient was started on an antiretroviral regimen of ritonavir-boosted atazanavir plus the tenofovir/emtricitabine fixed-dose combination. He has been seen in the clinic regularly every 3 months and has reported good adherence to treatment and no adverse effects to his medications. After 2 years, his HIV infection remains well controlled: his viral load is undetectable and his CD4 count is rising, but the pain has persisted and has been difficult to control. The management of his pain has been multidisciplinary (pain clinic, neurology service, and infectious diseases/HIV clinic) and has included analgesics and topical medications.

Typical zoster lesions are clinically recognizable, with pain and vesicles limited to an easily identifiable dermatome. The presentation is subtler when few lesions occur, sparse lesions are covered by hair, vesicles have not yet erupted, or existing lesions are grouped close to the midline so that the dermatomal pattern is less evident. Diagnostic clues include the presence of lesions, sensory symptoms that do not cross the midline, and pain or sensory signs. In HIV-infected patients, the lesions might get worse after the initiation of antiretroviral therapy because of the development of immune reconstitution inflammatory syndrome.

Systemic antiviral therapy is strongly recommended for all HIV-infected patients and some immunocompetent patients (eg, those older than 50 years or who have moderate to severe pain, moderate to severe rash, or non-truncal involvement). Acyclovir, licensed in the United States in 1982, has been the antiviral therapy of choice, but famciclovir, another oral antiviral agent, is also effective. Both the incidence and the duration of postherpetic neuralgia are directly correlated with increasing age. Postherpetic neuralgia can be severe and incapacitating.
Several types of treatment are available, but no results of comparative trials have been published to assist in selection of therapy. Fortunately, most patients with postherpetic neuralgia have gradual improvement in symptoms with time. Nonnarcotic analgesics are occasionally effective, but many patients require narcotic medication for pain relief.

Other modalities of treatment include anticonvulsant agents (eg, phenytoin and carbamazepine), tricyclic antidepressants (eg, amitriptyline and desipramine), phenothiazines, cimetidine, topical capsaicin, nerve blocks, subcutaneous local anesthetic, and electrical nerve stimulation. A herpes zoster vaccine was approved by the FDA in 2006 for use in persons 60 years and older but is contraindicated in persons with HIV/AIDS because it is a live-attenuated (high-dose) VZV.

References