

Lyme disease skin rash puzzles doctors, leads to misdiagnoses

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<https://danielcameronmd.com/lyme-disease-skin-rash-misdiagnoses/>

Lyme disease can cause an atypical skin rash, which may be overlooked by clinicians. [In this case report, a 43-year-old woman](#), who was an avid gardener and lived in Wisconsin, developed pink papules behind her right knee.¹ Over the next several days, the rash “evolved into painless vesicles with surrounding faint erythema.” She also developed fever, chills, neck pain and malaise.

Diagnoses: shingles, cellulitis, necrotizing fasciitis

Doctors initially suspected [shingles](#) (Herpes Zoster) but treatment with valacyclovir, an antiviral medication, did not improve the skin rash or symptoms. “The blisters increased in size and showed purple discoloration,” the authors wrote.

The doctors then diagnosed her with *cellulitis*, a bacterial skin infection which also causes a skin rash. She was prescribed ceftriaxone, followed by cephalexin and trimethoprim-sulfamethoxazole. But the woman remained ill.

She was then referred for evaluation for suspected *necrotizing fasciitis*, an inflammation of the vessel walls. At this time, she had a fever of 101.3°F.

“The atypical appearance of skin rash might confuse physicians with many differential diagnoses, such as spider bite, herpes zoster, bullous cellulitis, necrotizing fasciitis, and so on.”

Additionally, “Physical examination showed blister and a surrounding round erythematous patch at the right popliteal fossa and right inguinal lymphadenopathy,” the authors wrote.

Lyme disease skin rash

The woman was diagnosed clinically with “early Lyme disease with bullous erythema migrans.”

“Given the season, geographic location, outdoor activity, and progression despite treatment for cellulitis and shingles, she was clinically diagnosed with early Lyme disease,” the authors report.

The woman was treated for Lyme disease with a 10-day course of doxycycline and her skin rash resolved.

Laboratory tests for Lyme disease were negative – a common occurrence with early Lyme disease.

“The atypical appearance of skin rash might confuse physicians with many differential diagnoses, such as spider bite, herpes zoster, bullous cellulitis, necrotizing fasciitis, and so on,” the authors point out.

Editor’s comments: I have seen rashes described in this article in my Lyme disease patients. I am

concerned when a patient is diagnosed with shingles, cellulitis or necrotizing vasculitis before Lyme disease is considered as a possible cause of an atypical skin rash.

If uncertain about the root cause of the rash, I will typically treat patients with a combination of medications including an antiviral agent and an antibiotic that is effective in treating cellulitis, a spider bite and Lyme disease.

Related Articles:

[Lyme disease misdiagnosed as shingles in a 62-year-old man](#)

[Lyme disease mimics cellulitis skin infection](#)

[What does a Lyme disease rash look like?](#)

References:

1. Suzuki H, Carlson JR, Matsumoto E. 43-Year-Old Female With Fever and Bullous Skin Lesion. Clin Infect Dis. Dec 17 2020;71(10):2763-2764. doi:10.1093/cid/ciaa206

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