NAVEEN K. VOORE, MD Hospitalist, Internal Medicine, Riverside Shore Memorial Hospital, Nassawadox. VA ALEXIS DAVIS, MD Franklin Square Hospital, Baltimore, MD JOSEPH FUSCALDO, MD Franklin Square Hospital, Baltimore, MD

The Clinical Picture

A rash after streptococcal infection









A PREVIOUSLY HEALTHY 39-YEAR-OLD woman presented to the emergency department with 7 days of a gradually worsening rash. One week before the onset of the rash, her primary care physician had diagnosed streptococcal pharyngitis, for which she was doi:10.3949/ccim.79a.12042



FIGURE 1

treated with oral amoxicillin. She had no history of skin or joint problems and was not currently taking any medications.

She was afebrile and her vital signs were normal. She had mild pharyngeal erythema but no palpable cervical lymph nodes. The skin examination showed well demarcated, erythmatous papules 1 cm in diameter, with overlying scales over the entire body, sparing the palms and the soles of the feet (FIGURE 1).

Q:	Which is the most likely diagnosis?
	Impetigo
	Drug reaction
	Guttate psoriasis
	Nummular eczema
	Pityriasis rosea

A: The most likely diagnosis is guttate psoriasis.

Guttate psoriasis is a relatively uncommon condition that affects less than 2% of patients with psoriasis, primarily children and young adults. It is strongly associated with recent or concomitant beta-hemolytic streptococcal infection. The rash usually develops 1 to 2 weeks after the streptococcal pharyngitis or upper respiratory tract infection. Other organisms involved in guttate psoriasis are Staphylococcus aureus, Candida, and viruses such as human papillomavirus, human immunodeficiency virus, and human endogenous retrovirus.² Several commonly used drugs are also implicated in psoriasiform eruptions, including beta-blockers, nonsteroidal anti-inflammatory drugs, angiotensin-converting enzyme inhibitors, lithium, metformin, and digoxin.

Acute onset of skin lesions caused by streptococcal infection can be either the first manifestation in a previously unaffected person or an acute exacerbation of long-standing psoriasis. Skin lesions are usually scaly, erythematous, and guttate (drop-shaped); they

primarily involve the trunk but can spread to the rest of the body, sparing the palms and soles.

Throat culture should be done to confirm streptococcal infection. Titers of antistreptolysin O are elevated in more than half of patients with guttate psoriasis. Histopathologic examination can differentiate guttate psoriasis from other psoriasiform conditions, such as pityriasis rosea, secondary syphilis, and lichen simplex chronicus; however, the clinical appearance of the rash is so characteristic that biopsy is not usually needed to confirm the diagnosis.

Guttate psoriasis responds well to phototherapy with ultraviolet B radiation and medium-potency topical corticosteroids.³ And since streptococcal throat infection triggers the condition, it must also be treated for complete recovery.

CASE CONTINUED

Our patient was treated with topical steroid creams. Her rash improved slowly and had completely resolved in 6 weeks.

REFERENCES

- England RJ, Strachan DR, Knight LC. Streptococcal tonsillitis and its association with psoriasis: a review. Clin Otolaryngol Allied Sci 1997; 22:532–535.
- Fry L, Baker BS. Triggering psoriasis: the role of infections and medications. Clin Dermatol 2007; 25:606–615.
- Thappa DM, Laxmisha C. Suit PUVA as an effective and safe modality of treatment in guttate psoriasis. J Eur Acad Dermatol Venereol 2006; 20:1146–1147.

ADDRESS: Naveen K. Voore, MD, 9507 Hospital Avenue, PO Box 17, Nassawadox, VA 23413-0017; e-mail naveen.voore@rivhs.com.

CME CREDIT TEST

Visit WWW.CCJM.ORG Test your knowledge of clinical topics and earn Category I CME Credit

CME ANSWERS

Answers to the credit tests on page 807 of this issue

Emergency contraception 1C 2B

Hereditary colorectal cancer syndromes 1C 2B

Influenza 1D 2C

Testosterone replacement therapy 1B 2A