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Images in Infectious Diseases

Biett's sign: a hallmark sign of secondary syphilis

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A previously healthy 39-year-old man presented with a 2-week history of a painless diffuse erythematous rash (**Figure 1**). He had had multiple sexual partners and unprotected intercourse. Physical examination showed diffuse lymphadenopathy and multiple erythematous macules (diameter, 1–2 cm) with an off-white scaly peripheral collarette (Biett's sign) (**Figure 2**), which are typical findings of syphilitic roseola. Screening for sexually transmitted infections revealed positive results on Venereal Disease Research Laboratory (titer 1:256) and *Treponema pallidum* hemagglutination tests; serologically, he tested negative for human immunodeficiency virus, hepatitis B, and hepatitis C. He received a total of 4.8 million units of penicillin G benzathine over two weeks. At the 1-month followup, cutaneous lesions were absent; he was asymptomatic.

Syphilis is a sexually transmitted infection that is reemerging with increasing prevalence worldwide^{1,2}. Secondary syphilis shows two typical types of rash: one occurring early in this phase called syphilitic roseolas, characterized by light pink to erythematous macules, and one occurring later in this phase named syphilids, marked by erythematous papules^{2,3}. Both have hallmark collarette scales, known as Biett's sign. Additionally, cutaneous manifestations may demonstrate atypical morphology, such as nodulo-ulcerative, annular, and pustular lesions, among others^{1,3}. Due to varied clinical presentations, secondary syphilis is recognized as "the great imitator" and must be considered as a differential diagnosis of all dermatoses with atypical presentation. All secondary syphilis



FIGURE 1: Diffuse erythematous macules with collarette scales.

FIGURE 2: Syphilitic roseolas with Biett's sign.

cutaneous lesions contain highly contagious spirochetes; its non-recognition and late treatment favor an increased risk of disease transmission.

Conflict of interest: The authors declare that there is no conflict of interest.

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