Can you identify this condition?

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A 30-year-old man presents with a 5-day history of a bilateral, symmetric eruption consisting of multiple, well-demarcated, scaly, erythematous, droplike papules primarily distributed over his trunk and extremities. He denies having any systemic symptoms, but does note that he had a sore throat approximately 2 weeks ago.

**The most likely diagnosis is**

1. Pityriasis rosea
2. Secondary syphilis
3. Nummular dermatitis
4. Guttate psoriasis
5. Pityriasis lichenoides

Can you identify this condition?

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A 4-year-old boy (accompanied by his mother) presents to your office with a 5-day history of runny nose and a 2-day history of swelling in the left eye. The swelling can be localized to the inner portion of the lower eyelid, at the medial angle of the eye. There is redness and some crusting at the eyelids, and the child is fussy when you try to examine the eye. You notice that the mother is continually wiping the eye on account of excessive tearing; when you apply digital pressure to the lacrimal sac, some purulent discharge is exuded from the punctum. The child has no past ocular complications or infections and is otherwise healthy.

**The most likely diagnosis is**

1. Acute ethmoid sinusitis
2. Facial cellulitis involving the medial angle of the eye
3. Dacryoadenitis
4. Dacryocystitis
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4. Guttate psoriasis

Guttate psoriasis is a distinct eruptive dermatosis that classically occurs in children and young adults following a group A β-hemolytic streptococcal (GAS) infection. Guttate psoriasis might present as either the initial manifestation of psoriasis in individuals previously unaffected by psoriasis or as an acute exacerbation in individuals with pre-existing chronic plaque psoriasis. Affected patients are much more likely to have a family history of psoriasis, and might report experiencing a stressful life event in close association with the guttate eruption.

Guttate psoriasis typically presents as an acute bilateral, symmetric eruption consisting of multiple, well-demarcated, salmon-pink to erythematous, round to oval papules ranging in size from 1 mm to 10 mm in diameter. A fine silvery scale is often present on more established lesions. The distribution is primarily on the trunk and proximal extremities. The palms, soles, and face are usually spared. The rash is often asymptomatic, although some patients might report mild pruritus. The word guttate is derived from the Latin word gutta, meaning “drop,” as the lesions can be likened to red drops splashed upon the skin.

There is a well-established association between guttate psoriasis and antecedent or concurrent GAS infection. Typically, the GAS infection precedes onset of the guttate eruption by 1 to 3 weeks, and the patient might relate a history of recent upper respiratory tract infection, pharyngitis, or tonsillitis. There have also been several case reports of guttate eruptions following streptococcal perianal dermatitis in children.

The exact pathophysiologic correlation between guttate psoriasis and streptococcal infection is not fully understood. It is postulated that the guttate eruption might result from an immune reaction to the streptococcal infection, usually in those with susceptible genotypes, particularly human leukocyte antigen–Cw*0602. Human leukocyte antigen genotypes might influence T-cell proliferation in response to streptococcal antigens (some of which have shown homology with human keratin) and thus might modulate the inflammatory response.

Guttate psoriasis is usually a self-limiting process, especially in children, with full resolution occurring within 12 to 16 weeks without treatment. Limited information is available about the long-term prognosis of individuals with first-manifestation guttate psoriasis. However, data from 1 small study suggest that approximately 33% of patients with guttate psoriasis might eventually develop chronic plaque psoriasis.

Diagnosis

Guttate psoriasis is essentially a clinical diagnosis. Throat or perianal bacterial cultures to test for streptococcal infection might be performed, and elevated antistreptolysin O titre levels are common. The differential diagnosis includes pityriasis rosea, pityriasis lichenoides, small plaque parapsoriasis, nummular dermatitis, secondary syphilis, and viral or drug exanthem.

Pityriasis rosea can be differentiated from guttate psoriasis on the basis of morphology and arrangement. Lesions of pityriasis rosea tend to be oval with collarette scaling (ie, circumferential scale just inside the peripheral margin) and their long axes are oriented along skin-cleavage lines on the trunk, thus creating the classic “Christmas tree” pattern. In addition, pityriasis rosea often begins with the “herald patch,” a solitary, large, oval to round, scaly, salmon-coloured or erythematous plaque that precedes the generalized eruption by several days. Pityriasis lichenoides differs from guttate psoriasis in that the eruptions are more often polymorphic (as lesions are present in various stages of evolution) and the papules are generally smaller than those observed in guttate psoriasis. Lesions of small plaque parapsoriasis are flatter and tend to appear as elongated fingerlike patches on the lateral aspects of the trunk, thus producing a characteristic digitate pattern. Nummular dermatitis preferentially involves the distal extremities, and plaques tend to be more coin-shaped and very pruritic; nummular dermatitis plaques are less numerous than those of guttate psoriasis. Secondary syphilis can closely resemble guttate psoriasis, and syphilis serology should be considered if the diagnosis is uncertain. Patients with secondary syphilis tend to have more systemic complaints; involvement of the palms, soles, and face is also common, a distribution pattern that is not usually seen with guttate psoriasis. Viral and drug exanthems should also be considered in the differential diagnosis, as guttate psoriasis can appear similar to these 2 entities, especially early in its course when there is minimal or no scaling. A careful history regarding recent illness or medication use can help to clarify the diagnosis.

Treatment

Although guttate psoriasis is normally a self-limiting process, adjunct therapeutic agents might be beneficial in expediting resolution. Topical agents including emollients, corticosteroids, vitamin D3 analogues, or coal-tar preparations might be effective, but they are cumbersome to apply on account of the large area of involvement. In prolonged cases of guttate psoriasis, resolution might be further accelerated with the use of ultraviolet therapy, particularly narrowband UVB phototherapy, although psoralen-UV A photochemotherapy can also be used. However, firm evidence for the efficacy of these various therapies in the treatment of guttate psoriasis is currently lacking.

If there is evidence of persistent or untreated streptococcal infection, a course of appropriate antibiotics is
indicated; however, there might be no associated improvement in the guttate psoriasis after therapy.11,12 Finally, there is some limited evidence that tonsillectomy might help to reduce frequently recurring or chronic guttate psoriasis associated with streptococcal tonsillitis, although controlled clinical trials have yet to be completed.13

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Competing interests
None declared

References