A 35-YEAR-OLD MAN came into our clinic with a rash that had developed a week earlier after a trip to a North Carolina beach. The rash started on his upper inner arms (not including his axilla) and then developed in his groin, thighs, buttocks, and the tops of his feet. There was no rash on his back, head, or neck. The rash was a maculopapular eruption with some confluence, and it had a discrete distribution in his bathing suit area.

The patient said the rash was very itchy, although it had improved over the past couple of days. He did not have any systemic symptoms and hadn’t used any new soaps or detergents, nor had he recently worn any new clothes. He did note, however, that he’d experienced a similar rash in the past after trips to the beach, although the previous rashes were not as severe.

None of the other family members who’d accompanied him to the beach had developed the rash.

WHAT IS YOUR DIAGNOSIS?

HOW WOULD YOU TREAT THIS PATIENT?
Diagnosis: Seabather’s eruption
The patient was given a diagnosis of seabather’s eruption (SBE), also called sebather’s dermatitis or sea lice. SBE is an intensely itchy papular-erythematous dermatitis that can develop after an individual has been swimming in the ocean.1

Planula larvae of the scyphomedusae Linuche unguiculata—commonly known as the thimble jellyfish—are to blame for this form of dermatitis.2 L. unguiculata are most frequently found in the waters of the Caribbean, Gulf of Mexico, southern United States, and South America.1 Cases of SBE are most common in the spring and summer months, peaking in May.3 Those at highest risk include children, people with a history of SBE, and water sports enthusiasts (eg, surfers).4

L. unguiculata larvae are small enough that they can make their way through the mesh of swimwear. As the bather gets out of the water, the suit acts as a sieve, with the water draining out and many of the larvae staying behind.1 Once the jellyfish are pressed against the skin, a defense mechanism is triggered and envenomation occurs.1,5

As a result, patients will develop rashes not only in areas beneath their swimsuits, but also in the skin folds, such as the axilla, and between the upper thighs. For surfers, the trouble spots are the chest and abdomen—places where the body rubs up against the surfboard.3,6

Onset does not occur immediately. Rather, it takes several hours for the lesions to develop, and new ones may continue to develop for days.5 Immediate stinging sensations are associated with prior cases of SBE and suggest a sensitization to the antigen.2

Not all reactions are the same. Some people will have a severe response, while others appear to be immune.2 More extreme systemic symptoms, such as fever, chills, nausea, malaise, sneezing, dyspnea, vomiting, headache, abdominal pain, and diarrhea have been seen in children and in cases of extensive envenomation.4,6

“Swimmer’s itch” is included in the differential
Other possible causes of pruritic rashes like the one our patient had (Table) include:

- Cercarial dermatitis, also known as swimmer’s itch, is a maculopapular inflammation characterized by pain, pricking, and pruritus. It develops several hours after bathing in freshwater and is limited to exposed areas of the body. The cause of the dermatitis? The larval trematodes of Shistosoma and Trichobilharzia.5

- Phytophotodermatitis is an erythematous pruritic inflammation of the skin with vesicles and bullae. The eruption, which is often hyperpigmented, occurs when an individual spends time in the sun after coming into contact with light-sensitive botanicals, such as limes.7

<table>
<thead>
<tr>
<th>Condition</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cercarial dermatitis</td>
<td>A maculopapular inflammation characterized by pain, pricking, and pruritus that develops several hours after bathing in freshwater and is limited to exposed areas of the body.</td>
</tr>
<tr>
<td>Phytophotodermatitis</td>
<td>An erythematous pruritic inflammation of the skin, with vesicles and bullae appearing with hyperpigmented streaks along the body. It occurs when an individual spends time in the sun after coming into contact with light-sensitive botanicals.</td>
</tr>
<tr>
<td>Infectious folliculitis</td>
<td>An infection of the hair follicle resulting in the formation of multiple pustules. <em>Pseudomonas aeruginosa</em> folliculitis is associated with hot tub use.</td>
</tr>
<tr>
<td>Seabather’s eruption</td>
<td>An erythematous pruritic papular dermatitis that develops several hours after exposure to ocean water. It is limited to areas of high friction and those covered by swimwear.</td>
</tr>
<tr>
<td>Grover’s disease</td>
<td>A pruritic dermatosis of scaling papules distributed along the trunk that mainly affects middle-aged men. Onset is associated with high fever, intense exercise, and significant sun exposure.</td>
</tr>
</tbody>
</table>
Infectious folliculitis is an infection of the hair follicle resulting in the formation of multiple pustules. *Pseudomonas aeruginosa* folliculitis, often called hot tub folliculitis, may be pruritic and tender.\(^7\)

Grover’s disease is also known as transient acantholytic dermatosis and generally affects middle-aged men. It is a pruritic dermatosis of scaling papules that are distributed along the trunk and can show confluence. Although the cause is unknown, it has been linked with cases of high fever, intense exercise, and significant sun exposure.\(^7\)

**Treatment usually isn’t needed**

SBE usually resolves spontaneously within a week or 2.\(^1\) If treatment is necessary, start with topical corticosteroids and oral antihistamines. If this proves insufficient, move on to oral corticosteroids\(^1\) (strength of recommendation [SOR]: C). To minimize risk, swimmers should remove their bathing suits and shower as soon as possible after leaving the water\(^1,6\) (SOR: C).

**Benadryl does the trick**

We advised our patient to take diphenhydramine (Benadryl) and the itching went away. We also encouraged him to remove his bathing suit and shower as soon as possible after going in the ocean.\(^7\)

**We encouraged our patient to remove his bathing suit and shower as soon as possible after going in the ocean.**

**CORRESPONDENCE**

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**References**