Atypical Eruptive Xanthoma: A Condition Confused With Monkeypox Rash

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Since May 2022, monkeypox outbreaks have been reported in several countries outside Africa. The typical skin lesions of monkeypox begin as papules that appear in possible areas of inoculation, such as the skin or mucous membranes, followed by generalized pustules. Systemic symptoms appear simultaneously or a few days earlier than the lesions.

High levels of chylomicrons in the blood cause the milky appearance of the serum, retinal vessels and eruptive xanthomas. Eruptive xanthomas are characterized by sudden eruptions of multiple erythematous to yellowish, dome-shaped papules on the extensor surfaces of the extremities, buttocks and hands. However, they may present atypically as discrete vesicles or pseudo-pustules.

Figure 1. (A) A skin eruption that had appeared as erythematous-yellow, dome-shaped papules (2-7 mm in size) over the forearms, elbows, knees, and inner thighs. (B) Digital fundus microscopy revealed a stage III lipemia retinalis (salmon-colored retina with all vessels having milky appearance). The arteries and veins become indistinguishable.
that may easily be confused with other dermatologic manifestations of systemic diseases such as monkeypox. Many of the patients with monkeypox presented with atypical symptoms not seen in previous outbreaks. Additionally, these patients had fewer lesions than usual and did not present with a prodromal period. Our present case highlights the importance of careful history-taking and physical examination in patients with skin lesions. Although the monkeypox rash may be similar to xanthomas in size and shape, they are usually vesicular with lesions in the same stage of development.

A 35-year-old Thai male with a history of obesity, multifactorial chyomicronemia and ketosis-prone type 2 diabetes mellitus presented with sudden-onset multiple skin papules on both arms and legs without fever two days after returning from Kuala Lumpur, Malaysia. He denied any associated symptoms like shortness of breath, abdominal pain or blurred vision. He denied unprotected sexual contact and close contact with an infected person or animal. Skin lesions appeared as multiple erythematous-yellow, dome-shaped papules on the extensor surfaces of the extremities and inner thighs without facial involvement. Based on his medical conditions and the characteristics of the lesions, eruptive xanthomas were suspected rather than pox-like vesicles. Fundus microscopy revealed a stage III lipemia retinialis or a salmon-colored retina with all vessels having a milky appearance. Subsequent investigations showed fasting hypertriglyceridemia at 12,590 mg/dL and hyperglycemia (270 mg/dL) with mild ketonemia (plasma ketone 1.6 mmol/L). Additional history-taking revealed that the patient consumed excessive amounts of fast food and soft drinks during his trip abroad. The patient was advised to consult with a dietitian and to limit fat and simple carbohydrate intake. He was prescribed fenofibrate and omega-3 fatty acids for hypertriglyceridemia and insulin for glycemic control. One week later, skin lesions resolved and lipemia retinalis disappeared once plasma triglyceride was lowered to 546 mg/dL.

### Ethical Consideration
Patient consent was obtained before submission of the manuscript.

### Statement of Authorship
All authors certified fulfillment of ICMJE authorship criteria.

### Author Contribution Statement
YT conceived the idea, verified the results of the study, collected and analyzed the data, prepared the initial draft, reviewed and edited the manuscript, prepared the data presentation. NS provided study materials, curated the data. SN programmed the software, curated the data, managed the research activity planning and execution. TH supervised the research activity planning and execution and acquired financial support for the study.

### Author Disclosure
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