**BOTE sign in molluscum contagiosum**

Abheek Sil, Dibyendu Bikash Bhanja, Atanu Chandra, Surajit Kumar Biswas

**DESCRIPTION**

A 26-year-old immunocompetent man presented to the dermatology outpatient department seeking opinion regarding multiple reddish cutaneous eruptions over trunk and abdomen for the past few weeks. He was particularly distressed by a solitary bump near the umbilicus, which he claimed was painful. He had self-medicated with paracetamol tablets (500 mg two times per day) for a few days without any lesional improvement. He denied any other history of intake of oral/topical medication (allopathic or alternative) for his symptoms. Relevant medical history was notable for early-onset atopic dermatitis, which had been in remission since puberty. Cutaneous examination revealed multiple discrete, mildly tender, pink-red coloured, shiny, dome-shaped, umbilicated papules (ranging from 3–8 mm in diameter) with a surrounding intense erythematous halo distributed over the trunk and proximal upper extremities; some lesions had focal erosions and crusting (figure 1). The clinical impression of molluscum contagiosum was further reaffirmed by typical dermoscopic findings of roundish white-to-yellow structures with peripheral crown and dotted vessels. Giemsa stained smear showing multiple oval to round basophilic bodies with homogeneous appearance (Henderson Patterson bodies) confirmed our diagnosis as molluscum contagiosum. Secondary bacterial infection was ruled out as superficial swab failed to show any aerobic bacterial growth. Routine laboratory investigation including serology for HIV, viral hepatitis and syphilis was unremarkable. The patient was adequately counselled about the self-resolving nature of the condition, especially in the background of the obvious inflammatory response. The lesion had resolved on subsequent follow-up after 3 weeks. This spontaneous resolution of molluscum contagiosum lesions, heralded by a lesional inflammatory response, has been coined as the beginning of the end (BOTE) sign.

Molluscum contagiosum is a common skin infection caused by the molluscipox virus. Although, the course of the infection often includes tender, crusted, erythematous lesions that prompt suspicion and often result in empirical treatment for secondary bacterial infection, pathogen-negative bacterial swab cultures refutes the role of bacterial superinfection. Cutaneous perilesional plasmacytoid dendritic cell infiltration has been correlated with molluscum resolution. Recently, the acronym ‘BOTE’ sign has been proposed to help underscore the significance of the inflamed lesion as an expected variation in the evolution of immune response to the virus, rather than bacterial superinfection.

We seek to highlight the BOTE sign as a predictor of impending resolution, rather than provoking concern.

**Patient’s perspective**

I had experienced a painful reddish bump over my tummy for last few weeks. I have a previous history of atopic dermatitis. I was very anxious about the new rash. So, I sought an urgent dermatology consultation. After doing some tests, doctors told me that this is the beginning of the end and I was much relieved when my skin had almost healed over next few weeks. Now, I like the name, beginning of the end.

**Learning points**

- The sign of inflammation in molluscum contagiosum represents a host response that often precedes resolution of the viral disease, rather than secondary bacterial superinfection.
- This phenomenon has been termed as the beginning of the end sign and this does not require additional antibacterial treatment.
Contributors  AS contributed to conception, initial drafting of the manuscript, critical revision of the content and final approval of the manuscript. DBB, AC and SKB contributed to patient management, conception, critical revision of content and final approval of the manuscript. All authors are in agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

Funding  The authors have not declared a specific grant for this research from any funding agency in the public, commercial or not-for-profit sectors.

Competing interests  None declared.

Patient consent for publication  Obtained.

Provenance and peer review  Not commissioned; externally peer reviewed.

ORCID iD  Atanu Chandra http://orcid.org/0000-0002-3809-8926

REFERENCES