

Cells to Surgery Quiz: December 2014

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JID and Logical Images, Inc., have cooperated to offer the Cells to Surgery Quiz, incorporating diagnostic images from VisualDx's vast database. Questions relate to the image as well as to selected articles in *JID*, which are listed after the questions. Answers will be posted as supplementary material. We hope you enjoy this challenge.

visualdx.

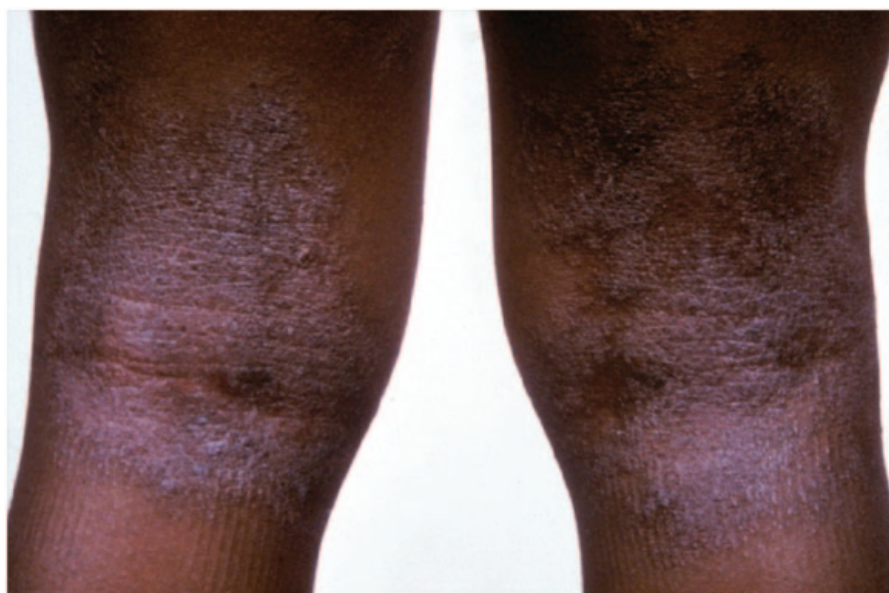


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QUESTIONS

1. A 10-year-old black female presents with the lesions pictured above. She has similar-looking lesions in the antecubital fossa bilaterally. What is the most likely diagnosis?
 - a. Atopic dermatitis.
 - b. Psoriasis.
 - c. Irritant contact dermatitis.
 - d. Seborrheic dermatitis.

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2. What is the proposed mechanism of action of excimer lamp irradiation in decreasing pruritus associated with this patient's skin condition?
- Improves skin barrier function.
 - Decreases pruritogenic immune response.
 - Placebo effect.
 - Antihyperinnervative effect on epidermal keratinocytes.
3. What is the effect of adding a cutoff excimer filter to the excimer lamp?
- Loss of antipruritic effect.
 - Decreased DNA damage to epidermal keratinocytes.
 - Increased production of cyclobutane pyrimidine dimers by epidermal keratinocytes.
 - Increased expression of nicotinamide mononucleotide adenylyl transferase-2 compared with control.

TOPIC ARTICLE

The questions refer to the following article:

Kamo A, Tominaga M, Kamata Y *et al.* (2014) The excimer lamp induces cutaneous nerve degeneration and reduces scratching in a dry-skin mouse model. *J Invest Dermatol* 134:2977–2984

Answers are available as supplementary material at <http://dx.doi.org/10.1038/jid.2014.436>.