Cells to Surgery Quiz: January 2015

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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.

Questions

1. A 59-year-old woman presents to your clinic with the lesions shown above, which have slowly increased in size and number over the past few months. Because of her job, it is difficult for her to coordinate regular follow-up visits. Which of the following would provide the best treatment option for this patient, who is poorly compliant with medications and lacks the ability to follow up regularly?
   a. Photodynamic therapy.
   b. Cryotherapy.
   c. Oral isotretinoin.
   d. Topical tretinoin.

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2. Jung et al. observed normal sebaceous gland function using coherent anti–Stokes Raman scattering (CARS) microscopy. Which of the following would you expect to see with in vivo imaging CARS microscopy?
   a. Holocrine secretion of sebaceous glands.
   b. Centrifugal migration of sebocytes.
   c. Three-dimensional longitudinal imaging of the sebaceous glands.
   d. All of the above.

3. After discussing possible treatment options with the patient, you both decide to treat the lesions with cryotherapy. Which of the following would be an expected in vivo effect that would be observed in sebaceous glands after cryotherapy?
   a. Destruction of sebocytes' intracellular structures.
   b. Destruction of central sebocytes before peripheral sebocytes.
   c. Permanent gland destruction.
   d. Increased lipid excretion into the infundibulum.
   e. None of the above.

TOPIC ARTICLE
The questions refer to the following article:

Answers are available as supplementary material at http://dx.doi.org/10.1038/jid.2014.474.