Cells to Surgery Quiz: April 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.

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Questions

- 1. A 52-year-old man presents to the clinic with a concern of an "enlarging mole." The lesion has irregular borders and multiple pigmentary changes. On dermoscopy, the lesion is composed of five colors, multiple blue/gray dots, peripheral black dots, and scarlike depigmentation. What is the diagnosis?
 - a. Melanocytic nevus.
 - b. Lentigo.
 - c. Pigmented basal cell carcinoma.
 - d. Superficial spreading melanoma.

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- 2. In the study by Sheen et al., how was IGF-2 mRNA-binding protein 3 (IMP-3) found to express its effect in melanoma cells?
 - a. By increased translation of IGF-2 protein.
 - b. By binding directly to high-mobility group AT-hook 2 (HMGA2) mRNA, leading to overex-pression of HMGA2.
 - c. By binding to an upstream regulator of HMGA2, leading to overexpression of HMGA2.
- 3. According to the findings of this study, what would be the implications if the patient's melanoma in Question 1 expressed high levels of IMP-3?
 - a. Enhanced tumorigenicity.
 - b. Enhanced lymph node metastasis.
 - c. Higher risk of stage III/IV staging.
 - d. Decreased 5-year survival rate.
 - e. All of the above.

TOPIC ARTICLE

The questions refer to the following article:

Sheen Y-S, Liao Y-H, Lin M-H et al. (2015) IMP-3 promotes migration and invasion of melanoma cells by modulating the expression of HMGA2 and predicts poor prognosis in melanoma. J Invest Dermatol 2015:1065–73

Answers are available as supplementary material at http://dx.doi.org/10.1038/jid.2015.38.