Title: Rare hereditary pattern in sisters with epidermodysplasia verruciformis: a case report

Authors:

Rui Yoshida (ruirui0125cherry@nms.ac.jp)
Toshihiko Kato (toshihiko.kato@phms.co.jp)
Masahiko Kawase (kawasem@jikei.ac.jp)
Mariko Honda (m-honda@jikei.ac.jp)
Tsuyoshi Mitsuishi (tmitsu@tymc.twmu.ac.jp)

Version: 3
Date: 24 April 2014

Author's response to reviews:

Dear Editors,

Attached, please find our manuscript entitled “Rare hereditary pattern in sisters with epidermodysplasia verruciformis: a case report” by Yoshida R., et al., which we would like to submit for publication in BMC Dermatology.

We report a case of two sisters of epidermodysplasia verruciformis. PCR analysis showed the presence of HPV5 in the EV lesions of two sisters. We performed microscopic examination and it showed virus-like particles with crystalline arrays filled in the stratum corneum and the nuclei of keratinocyte cells of the EV lesions. We also detected the presence of the EVER1 and EVER2 genes without any point mutations in elder sister. Most patients have autosomal recessive inheritance patterns but a small number of patients show X-linked recessive or autosomal dominant inheritance of EV. In our case, the parents were carriers but did not develop EV lesions. The sisters are the only offspring, and the mother does not have a history of miscarriage. Thus, it was unusual that both sisters had EV lesions considering that the parents were carriers and the disease showed an autosomal recessive pattern of inheritance.

We believe that this manuscript is of general and wide interest and thus is significant enough to be published in BMC Dermatology.

The data in the manuscript is original and the manuscript is not under consideration elsewhere. None of the manuscript contents have been previously published except in abstract form. All authors have read and approved all versions of the manuscript, its content, and its submission to BMC Dermatology. We are willingness to pay page charges, should the manuscript be accepted for publication.

Corresponding author and reprint requests:
Tsuyoshi Mitsuishi, MD, PhD
Department of Dermatology
Tokyo Women’s Medical University
Yachiyo Medical Center
477-96, Ohwada-Shinden, Yachiyo,
Chiba, 276-8524, JAPAN
Phone: +81-47-450-6000
Fax: +81-47-458-7047
E-mail: tmitsu@tymc.twmu.ac.jp