



[PICTURES IN CLINICAL MEDICINE]

Tolvaptan for the Treatment of Elephantiasis Nostras Verrucosa

Yuko Eda, Yoh Arita, Nobuyuki Ogasawara and Shinji Hasegawa

Key words: tolvaptan, lymphedema, obesity, elephantiasis nostras verrucosa

(Intern Med 58: 3347-3348, 2019) (DOI: 10.2169/internalmedicine.2815-19)



Picture 1.



Picture 3.



Picture 2.

A 79-year-old woman was repeatedly admitted because of cellulitis due to obesity and lymphedema despite furosemide (20 mg) and compression bandages being used to treat the edema in her lower limbs. She had also been diagnosed with heart failure with a preserved ejection fraction. Her body weight (BW) was 105 kg and body mass index 44.2 kg/m². Her lower limbs showed severe edema, verrucose, cobblestone-like papulonodules, and plaques, which were compatible with the features of elephantiasis nostras verrucosa (ENV; Picture 1). Kaposi-Stemmer sign was present, indicating lymphedema (Picture 2). After the treatment of cellulitis, her leg edema remained. Tolvaptan (7.5 mg) therapy was initiated. However, our patient could not tolerate this treatment because of hypernatremia and require a reduction in the dosage to 3.75 mg. One year after the tolvaptan therapy had been started, her BW decreased to 92 kg, and the ENV improved (Picture 3) with no side effects. The right/left maximum thigh circumference (74/73 cm) de-

Department of Cardiology, Japan Community Healthcare Organization (JCHO) Osaka Hospital, Japan Received: February 12, 2019; Accepted: June 5, 2019; Advance Publication by J-STAGE: July 22, 2019 Correspondence to Dr. Yoh Arita, arita-yo@osaka.jcho.go.jp

creased to 68/70 cm. ENV is a rare clinical condition associated with chronic non-filarial lymphedema (1). In our patient, conventional treatment with compressive bandages and furosemide was not very effective (2). However, combined treatment with tolvaptan was greatly effective in this clinical situation. Tolvaptan with obesity management may be a useful and effective treatment strategy for ENV.

The authors state that they have no Conflict of Interest (COI).

References

- 1. Yosipovitch G, DeVore A, Dawn A. Obesity and the skin: skin physiology and skin manifestations of obesity. J Am Acad Dermatol 56: 901-916; quiz 917-920, 2007.
- 2. Grada AA, Phillips TJ. Lymphedema: diagnostic workup and management. J Am Acad Dermatol 77: 995-1006, 2017.

The Internal Medicine is an Open Access journal distributed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License. To view the details of this license, please visit (https://creativecommons.org/licenses/by-nc-nd/4.0/).

© 2019 The Japanese Society of Internal Medicine Intern Med 58: 3347-3348, 2019