RETRACTED ARTICLE: Role of transesophageal echocardiography in percutaneous mitral valve repair using MitraClip

Masaki Izumo¹ · Yoshihiro J. Akashi¹

Received: 24 December 2019 / Accepted: 27 December 2019 / Published online: 6 January 2020
© Japanese Association of Cardiovascular Intervention and Therapeutics 2020

The authors have retracted this article [1] because there is significant overlap with a number of previously published articles, most notably previously published articles by Aman and Smith 2019 [2] and Nyman et al. 2018 [3]. All authors agree to this retraction.

The online version of this article contains the full text of the retracted article as electronic supplementary material.

[1] Izumo M, Akashi YJ. Role of transesophageal echocardiography in percutaneous mitral valve repair using MitraClip. *Cardiovasc Interv Ther.* 2020. <https://doi.org/10.1007/s12928-019-00638-1>.

[2] Aman E, Smith TW. Echocardiographic guidance for transcatheter mitral valve repair using edge-to-edge clip. *J Echocardiogr.* 2019;17:53–63.

[3] Nyman CB, Mackensen GB, Jelacic S, Little SH, Smith TW, Mahmood F (2018) Transcatheter mitral valve repair using the edge-to-edge clip. *J Am Soc Echocardiogr.* 2018;31(4):434–53.

Electronic supplementary material The online version of this article (<https://doi.org/10.1007/s12928-019-00638-1>) contains supplementary material, which is available to authorized users.

✉ Masaki Izumo
heartizumo@yahoo.co.jp

¹ Division of Cardiology, Department of Internal Medicine,
St. Marianna University School of Medicine, 2-16-1 Sugao,
Miyamae-ku, Kawasaki-City 216-8511, Japan