



Correspondence

In reply: Kounis syndrome: A review article on epidemiology, diagnostic findings, management and complications of allergic acute coronary syndrome: Mastocytosis and post-mortem diagnosis



Mahmoud Abdelghany*, Siddharth Shah, Rogin Subedi, Hani Kozman

Department of Medicine, Division of Cardiology, State University of New York, Upstate Medical University, Syracuse, NY, USA

ARTICLE INFO

Article history:

Received 31 March 2017

Accepted 3 April 2017

We would like to thank Kounis et al. for pointing to the possible association between Kounis syndrome and systemic mastocytosis. Inappropriate mast cell activation and degranulation result in release of inflammatory mediators. The inflammatory mediators associated with systemic mastocytosis include corticotrophin-releasing hormone, histamine, tumor necrosis factor, interleukin-6, platelet-activating factor, renin, chymase and tryptase; many of which are involved in Kounis syndrome as well [1,2]. This explains the significant overlap of the cardiac manifestations in both of them [3]. Patients with systemic mastocytosis undergoing cardiac intervention are probably at a higher risk of complications and may benefit from administration of steroids and antihistamines prior to the procedure [3]. There is very limited data available to establish a definite association between systemic mastocytosis

and Kounis syndrome but the possible association described in a report of 10 cases opens a platform for further research [4].

Kounis syndrome is mainly a clinical diagnosis. Although pathological examination of the coronary arteries and/or the thrombus is highly supportive; but it is difficult and rarely done in the real life.

Conflicts of interest

All authors have no conflicts of interest to declare.

References

- [1] M. Abdelghany, R. Subedi, S. Shah, H. Kozman, Kounis syndrome: a review article on epidemiology, diagnostic findings, management and complications of allergic acute coronary syndrome, *Int. J. Cardiol.* 232 (2017) 1–4.
- [2] T. Gulen, H. Hagglund, B. Dahlen, G. Nilsson, Mastocytosis: the puzzling clinical spectrum and challenging diagnostic aspects of an enigmatic disease, *J. Intern. Med.* 279 (3) (2016) 211–28.
- [3] Paratz ED, Khav N, Burns AT. Systemic mastocytosis, Kounis syndrome and coronary intervention: case report and systematic review. *Heart Lung Circ.* Feb 15 2017. <http://dx.doi.org/10.1016/j.hlc.2016.12.009>.
- [4] D. Gonzalez-de-Olano, A. Matito, P. Sanchez-Lopez, L. Sanchez-Munoz, J.M. Morgado, C. Teodosio, et al., Mast cell-related disorders presenting with Kounis syndrome, *Int. J. Cardiol.* 161 (1) (2012) 56–8.

DOI of original article: <http://dx.doi.org/10.1016/j.ijcard.2017.02.144>.

* Corresponding author.

E-mail address: abdelghm@upstate.edu (M. Abdelghany).