

MEETING ABSTRACT



Kounis syndrome and systemic mastocytosis: one step from elective lipoma resection to cardiac arrest

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Background

Kounis Syndrome manifests as unstable vasospastic or nonvasospastic angina and is caused by the release of inflammatory mediators following an allergic reaction. A variety of causes have been reported including antibiotics, general anesthetics, latex, insect stings, drug eluting stents, etc. To the best of our knowledge, Kounis syndrome in the setting of systemic mastocytosis has not been previously published. We describe the case of a 52- year- old male, who developed Kounis syndrome perioperatively and was subsequently diagnosed with systemic mastocytosis.

Methods

Case report and literature review.

Results

A 52-year-old man was brought to operating room for an elective lipoma resection. Shortly after receiving cefazoline intravenously he developed generalized skin pruritus, flushing and dyspnea. He was treated with intravenous Benadryl and the lipoma site was infiltrated with combination of local anesthetics. He became increasingly agitated, hypoxic and the monitor showed development of ST elevation followed by ventricular fibrillation. The patient sustained a cardiac arrest and required full resuscitation. Return of circulation was achieved and ST segment elevation resolved within minutes of treatment with epinephrine. The procedure was abandoned. He was transferred to our hospital and subsequent angiography showed mild coronary artery disease. A transthoracic



ECHO yielded a LVEF of 70% with no wall motion

Conclusion

Kounis syndrome is one of the manifestations of anaphylactic reaction. This case report emphasizes the importance of recognizing Kounis syndrome in the setting of anaphylaxis. Effective management of Kounis syndrome should focus on the investigation and treatment of the acute coronary event as well as suppression of the allergic reaction. The flare of underlying systemic mastocytosis due to perioperative stress, rather than a true allergic reaction to cephalosporin, could have caused this reaction; however, further investigations are required.

Authors' details



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