

KOUNIS SYNDROME: A RARE EXPERIENCE



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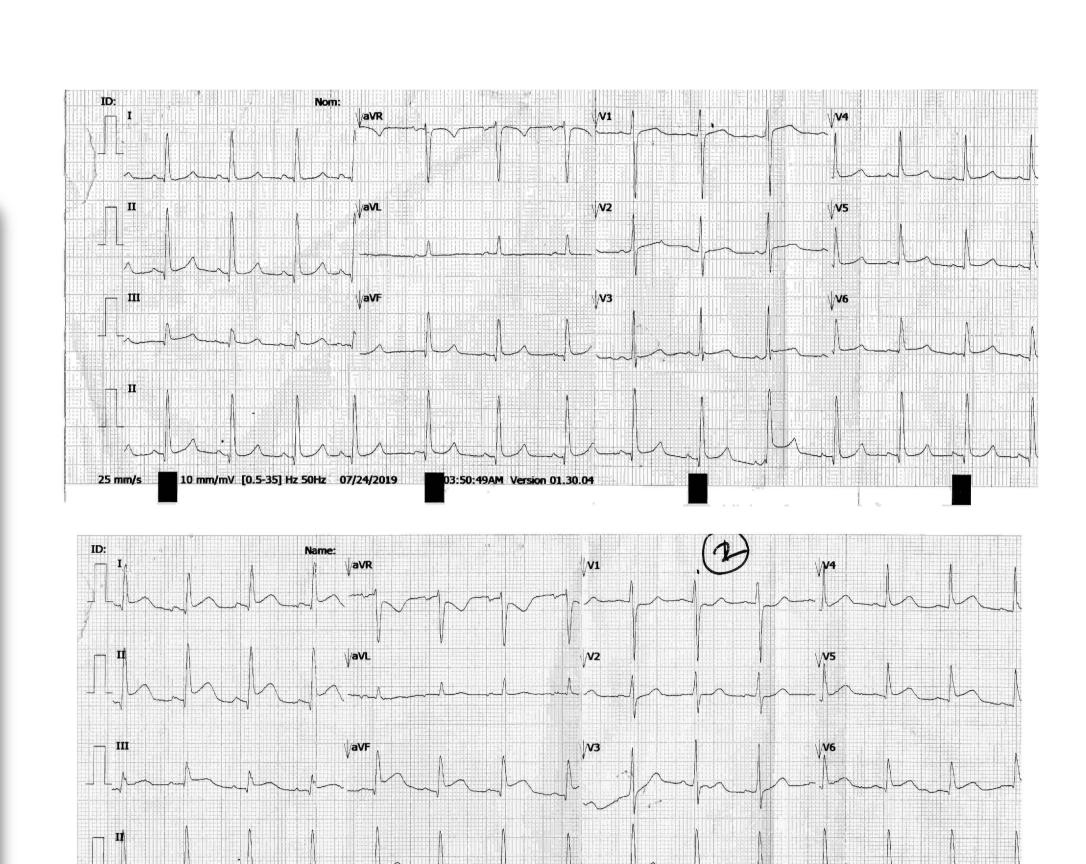
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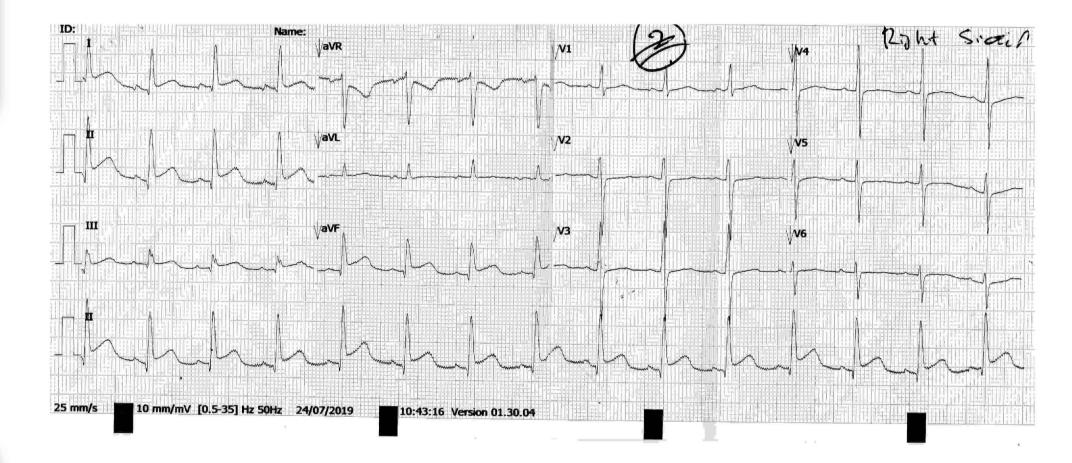
Introduction

- Kounis syndrome was first described by Kounis and Zavras in 1991 as "syndrome of allergic angina", has been established as a condition associated with mast cell activation including allergic, hypersensitivity, anaphylactic and anaphylactoid reactions that lead to of Coronary Acute concurrence Syndrome.
- Kounis syndrome has been linked with various conditions, drugs, environmental exposures, foods, and coronary stents.
- We report a case of Kounis syndrome induced by food ingestion.

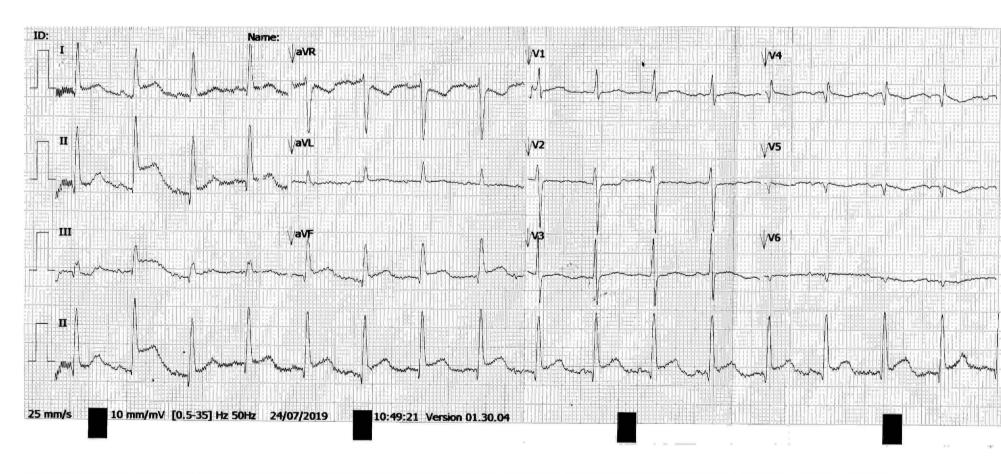
Case report

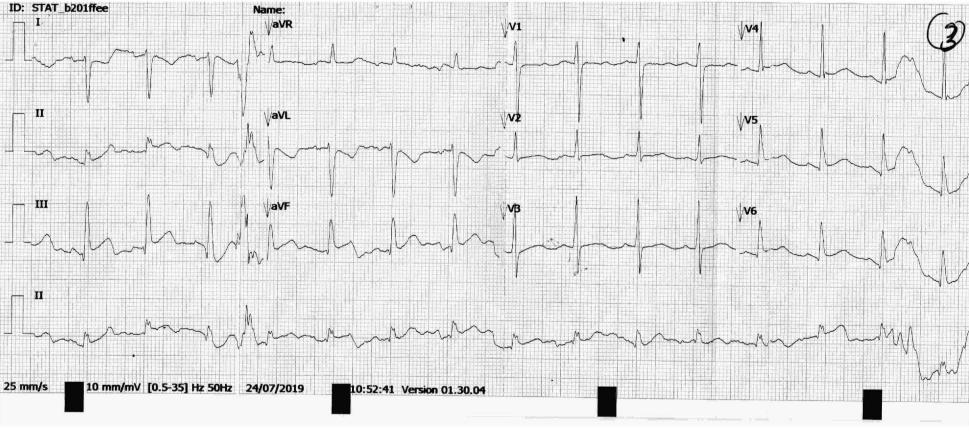
- A 53 years old woman with underlying hypertension and ischemic heart disease was brought to emergency department with a complaint of near-syncopal attack, difficulty in breathing, preceded by unexplained generalized body rashes and itchiness after taken her breakfast.
- Further history revealed that she ate mackerel-tuna fish for her breakfast.
- Physical examination on arrival at emergency department showed initial blood pressure of 72/43 mmHg, pulse rate of 71 beats/min regular, afebrile with oxygen saturation of 100%.
- Electrocardiogram revealed elevation of ST-segment in lead II, III, aVF, compatible with acute inferior myocardial infarction.
- She was immediately administered 200mg Hydrocortisone, 10mg Chlorpheniramine, 10mg Ranitidine, 0.01mg/kg Epinephrine intravenously. She was also started on intravenous Epinephrine infusion.
- Her symptoms improved after medications were given and serial Electrocardiogram showed normal sinus rhythm without ischemic changes.

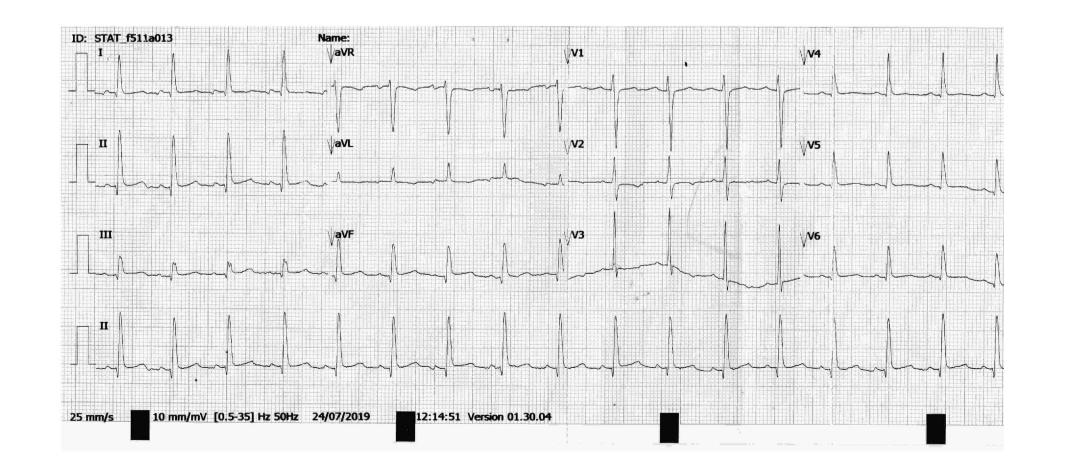




1. Electrocardiogram pattern on arrival







Discussion

- Cases of Kounis syndrome often encountered in clinical practice than anticipated.
- The mechanism Kounis syndrome of involves the release of inflammatory mediators through mast cell activation which induces coronary artery spasm and/or atheromatous plaque erosion or rupture.
- Electrocardiogram findings and associate signs/symptoms may improve after anaphylactic medications given. Thrombolytic therapy was not indicated in treating this case.

Conclusion

- Nounis syndrome is a rare phenomenon, mostly due to the lack of awareness of it's signs/symptoms that may lead to underdiagnosed and delay of an appropriate treatment.
- Therefore, awareness of this syndrome can help physician in making prompt diagnosis and initial treatment.

References

- 1. Biteker, M. Current understanding of Kounis syndrome. Exp Rev Clin Immunol. 2010; 6: 777–788
- 2. Kounis NG, Zavras GM. Histamine-induced coronary artery spasm: the concept of allergic angina. Br J Clin Pract 1991; 45(2): 121-8.
- 3. Kounis, N.G., Mazarakis, A., Tsigkas, G. et al. Kounis syndrome: a new twist on an old disease. Future Cardiol. 2011; 7: 805–824

2. Electrocardiogram pattern after given medications

