

Background

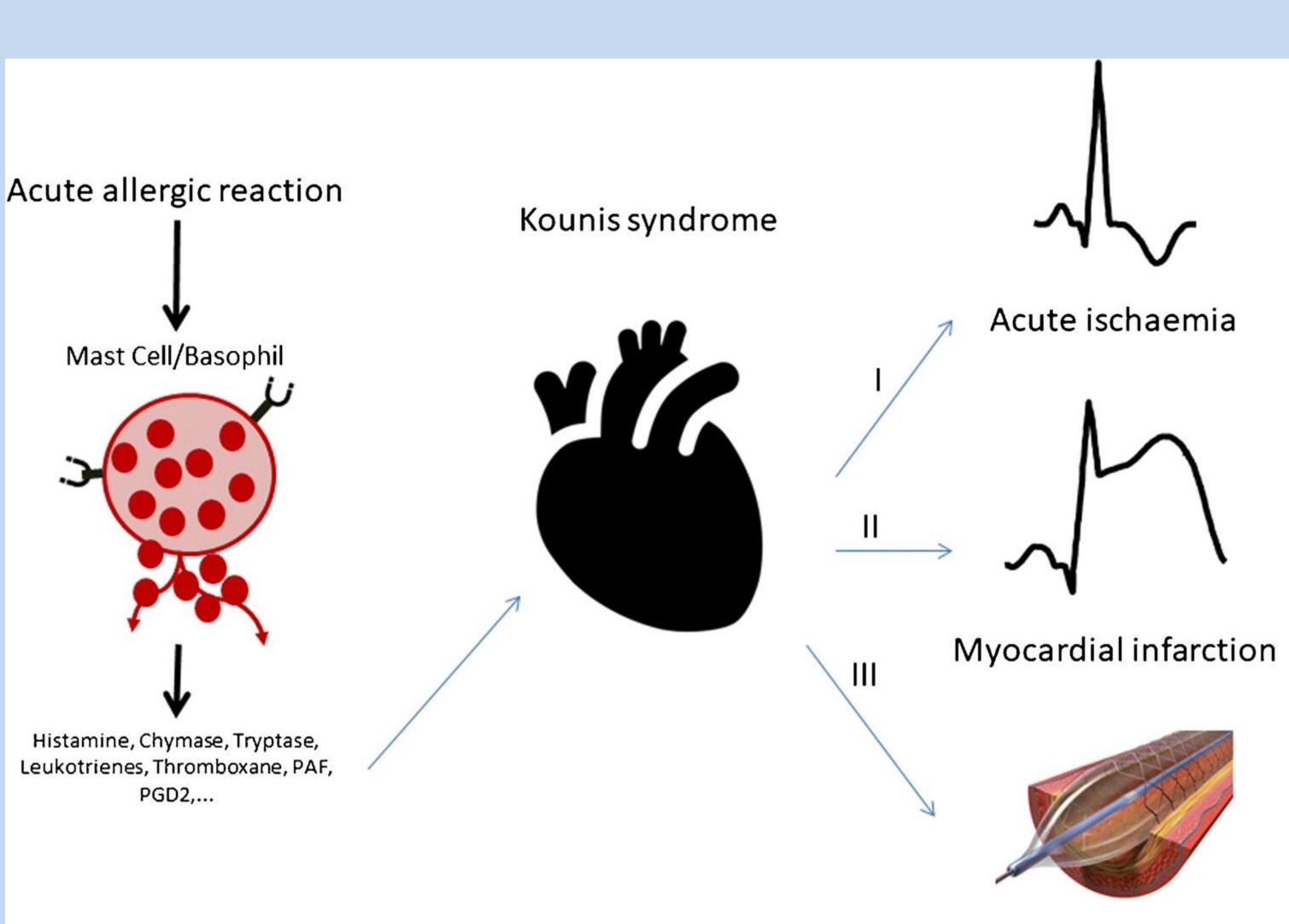
Acute coronary syndrome associated with mast cell and platelets activation in the setting of hypersensitivity insults is defined as a Kounis syndrome.

Inflammatory inducE mediators coronary vasoconstriction and platelets activation leading to plague erosion and rupture. They also induce tacycardia, dysfunctional ventricular contractility and A-V block. Prolonged hypotension is another mechanism for ACS.

Case presentation:

87-year-old female patient with known allergy to Analgin, took Algifen drops for low back pain. Within 10 minutes she had anaphylactic shock with angioedema, epigastric pain and hypotension (pulse 120-160 per minute, irregular; blood pressure 57/30 mmHg; oxigen saturation 80%; GCS 14). Ten minutes after prompt management with O2 and Epinephrine (2mcg/min) and intravenous fluid, the patient was stabilised (GCS 15, pulse 86 per minute, blood pressure 95/45 – 123/100)





Anaphylaxis 2º Cardiac effect / ischaemia

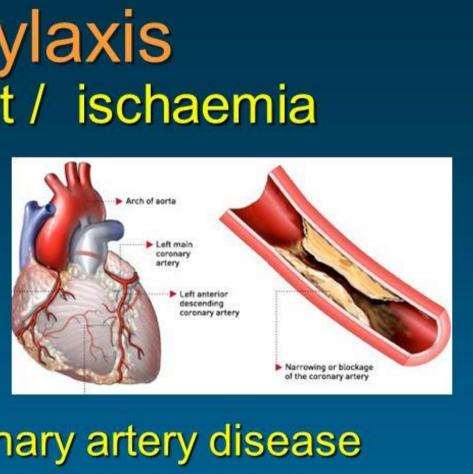
- Cardiac mast cells
- direct mediator effect
- coronary artery vasoconstriction
- 'Kounis syndrome'

Known or subclinical coronary artery disease hypotension / hypoxia trigger +/- plaque rupture

KOUNIS SYNDROME Iryna Domoratska, MD, EDAIC, Slovakia

Coronary stent thrombosis

The ECG showed athat inditiation with uncontrolled ventricular response together with marked ST elevation in aVR (4.02 mm) and in V1 (2.14 mm). Greater ST elevation in aVR than in V1 usually indicates LMCA lesion (STEMI equivalent). There was also depression in leads I, Ii, aVF, FT, V6. Patient received Anopyrin 200 mg and Brilique 180 mg. Admission for PCI was denied and patient was admitted to ICU in a nearby hospital with stable vital signs and very mild chest pain. Laboratory tests showed high troponin level. Patient passed away on the third day of hospitalization.



Conclusion: Kounis syndrome is not that rare, but it is rarely diagnosed and is hugely underestimated. Till now, the diagnosis of syndrome is based on its clinical manifestations.

