

## Kounis Syndrome

**Iryna Domoratska**  
Life Star Emergency, Slovakia

**A**cute coronary syndrome associated with mast-cells and platelets activation in the setting of hypersensitivity and allergic or anaphylactic insults defined as a Kounis syndrome.

Inflammatory mediators induce coronary vasoconstriction and platelets activation leading to plaque erosion and rupture. They also induce tachycardia, dysfunctional ventricular contractility and blockade of atrioventricular conduction. Prolonged hypotension is another pathogenic mechanism for ACS.

87-year-old female patient with known allergy to Analgin, took Algifen droops for low back pain. Within 10 minutes she had anaphylactic shock with angioedema and hypotension. Her pulse rate was 120-160 per minute, irregular, blood pressure 57/30 mmHg, oxygen saturation 80 % on room air, she had an altered mental state (GCS 14) and complained of pain in the epigastrium. After prompt management with O<sub>2</sub>, Epinephrine ( 2 mcg/min), within 10 minutes the patient was stabilized – GCS 15, pulse rate 86 per minute, blood pressure 96/45 – 123/100 mmHg. 12 leads ECG showed atrial fibrillation, ST elevation in aVR > 4 mm and in V1 > 2 mm, ST depression in precordial and limb leads (STEMI equivalent, indicates LMCA lesion). Patient received Anopyrin 200 and Brilique 180 mg. Admission for PCI was denied by cardio center. Patient was admitted to the nearby hospital. Laboratory tests showed high troponins. Patient passed away on the third day of hospitalization.

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.

### Biography:

Iryna Domoratska, doctor anesthesiologist, currently working as an Emergency Medicine doctor in Life Star Emergency, Slovakia. Five years worked in Riyadh, Saudi Arabia as an anaesthesiologist in prominent private hospital. In year 2014 obtained European Diploma in Anaesthesiology and Intensive Care. Had presentations in international Emergency Medicine conferences and congresses – Slovakia, Czech republic, Austria.