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Nitroglycerine-Responsive Combined ST-Segment Coronary Artery Spasms of High Lateral, Inferior, and Septal Affection; an Extremely Rare Presentation; a Case Report

Yasser Mohammed Hassanain Elsayed

Egyptian Ministry of Health (MOH), Egypt

Rationale: Coronary artery spasm is common ischemic heart disease. It is a serious clinical cardiovascular issue. Nitrates such as nitroglycerine have a pivotal role in the management of coronary artery disease.

Patient concerns: A 45-year-old married, officer, heavy smoker, Egyptian male patient presented with acute excruciating severe chest pain and combined electrocardiographic ST-segment coronary artery spasms.

Diagnosis: Combined ST-segment coronary artery spasms of ST-segment elevations and ST-depressions were the most probable diagnosis.

Interventions: Electrocardiogram, echocardiography, and nitroglycerine intravenous infusion.

Outcomes: Dramatic response of both clinical and electrocardiographic combined ST-segment coronary artery spasms to nitroglycerine.

Lessons: A combined ST-segment coronary artery spasms including ST-segment elevation and ST-depression may be present in the same ECG. The dramatic efficacy of later using nitroglycerine in the management of combined ST-segment coronary artery spasms.

Keywords: Nitroglycerine; coronary artery spasm; combined ST-segment coronary artery spasms; ischemic heart disease

Biography

Dr. Yasser Mohammed Hassanain Elsayed is a researcher, reviewer, editor, international speaker, critical care physician, and cardiologist in the Egyptian Ministry of Health. He has (105) publicized articles as a single author and (4) medical books since December 2017. He has reviewed (130) articles since November 2020. He is a Keynote Speaker in many international cardiovascular conferences. The most famous article for the researcher; 1. Graded Phenomenon (Yasser's Phenomenon). 2. Wavy Triple An Electrocardiographic Sign (Yasser's Sign). 3. Connected Aircraft Squadron Electrocardiographic Sign (Yasser's sign). 4. Electrocardiographic Passing Phenomenon (Flying Phenomenon or Yasser's Phenomenon). 5. Movable-weaning off an electrocardiographic phenomenon (changeable phenomenon or Yasser's phenomenon). 6. Yasser's COVID-19 Discrepancy phenomenon. 7. Yasser's Maneuver for Regaining the Consciousness in the Psychogenic Coma. He is also an editorial member in several medical journals e.g. Anesthesia & Surgery Open Access Journal, Journal of Clinical & Community Medicine, Annals of mental health and addiction sciences, Research and Reviews on Healthcare Open Access Journal, International Journal of Clinical Case Reports and Reviews, International Journal of Clinical and Medical Case Reports, Journal of MAR Cardiology, Research International Journal of Anesthesiology, etc.

dryaser24@yahoo.com