


CARDIOVASCULAR FLASHLIGHT

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Cardiogenic shock from acute ST-segment elevation myocardial infarction induced by severe multivessel coronary vasospasm

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A 43-year-old woman was brought to the emergency room after acute onset chest pain and dizziness developed while at rest. She developed excruciating chest pain followed by drop of systolic blood pressure to 67 mmHg. Cardiothoracic examination revealed bilateral diffuse moist rales. An 18-lead electrocardiogram showed ST-segment elevation in leads II, III, aVF, and V3R through V5.

Videos S1 and S2). After excluding pheochromocytoma, the patient was discharged home 4 days later on a regimen of nimodipine 30 mg three times daily, diltiazem 30 mg four times daily, and perindopril 2 mg once daily. A 4-month follow-up survey indicated that the patient had fully recovered.

This case highlights the importance of identifying possible vasospasm for a variety of clinical manifestations of acute coronary syndrome. The patient was originally diagnosed and treated for acute ST-segment elevation myocardial infarction based on clinical presentations and angiographic finding of severe coronary stenosis. Thus, excluding the possibility of vasospasm is mandatory for every angiographic coronary lesion regardless of the severity of stenosis, even if spasm is not clinically suspected.

Supplementary material is available at European Heart Journal online.

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