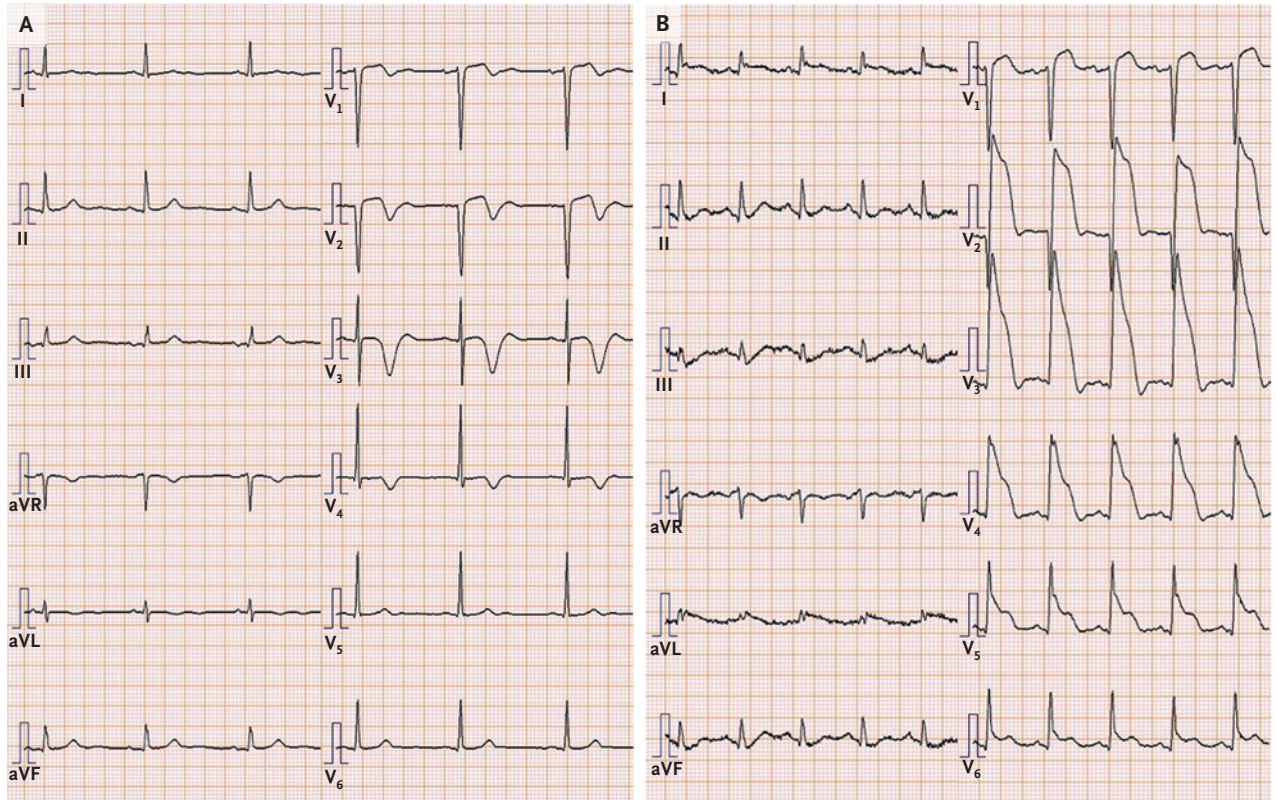


IMAGES IN CLINICAL MEDICINE

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Wellens' Syndrome



A 58-YEAR-OLD MAN WITH CORONARY ARTERY DISEASE PRESENTED TO the emergency department with a 1-day history of intermittent chest pain at rest. An electrocardiogram (ECG) that was obtained on arrival — at which time the patient reported no chest pain — showed biphasic T waves in leads V_1 and V_2 and inverted T waves in leads V_3 and V_4 (Panel A). The high-sensitivity troponin T level was 0.41 ng per milliliter (reference value, <0.1). Owing to concern about Wellens' syndrome, the cardiology department was consulted, and catheterization was planned for later that day. Eighty minutes after presentation, the patient began having chest pain. A repeat ECG showed ST-segment elevations in leads V_1 through V_6 as well as in leads I and aVL (Panel B). Emergency coronary angiography identified a complete occlusion of the proximal left anterior descending artery, and a stent was placed (see the Supplementary Appendix, available at NEJM.org). Wellens' syndrome refers to the biphasic or deep precordial T-wave inversions, particularly in leads V_2 and V_3 , that are seen during a pain-free period that occurs after spontaneous reperfusion of an occluded left anterior descending artery. Rapid assessment and intervention are indicated, given the risk of coronary-artery reocclusion by an unstable plaque. The patient did well after the procedure and was discharged after a 2-week cardiac rehabilitation program.

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