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New Jersey Medical School **DEPARTMENT OF MEDICINE**

Background

Methadone is a mainstay in the treatment of opioid use disorder. QTc prolongation causing Torsade de Pointes (TdP) is an infrequent, but life-threatening complication of methadone use. However, the evidence supporting this notion is limited.

Case

A 58-year-old woman with heroin use disorder on methadone presented with shortness of breath. She became hypoxemic to the 80's and was found to have segmental pulmonary emboli (PE). Her potassium was 3.1 mmol/liter. Initial electrocardiogram (EKG) was notable for ventricular bigeminy with QTc of 657 milliseconds (Figure 1), which later degenerated into an accelerated junctional rhythm (AJR) with an episode of TdP with R on T phenomena.

Conclusion

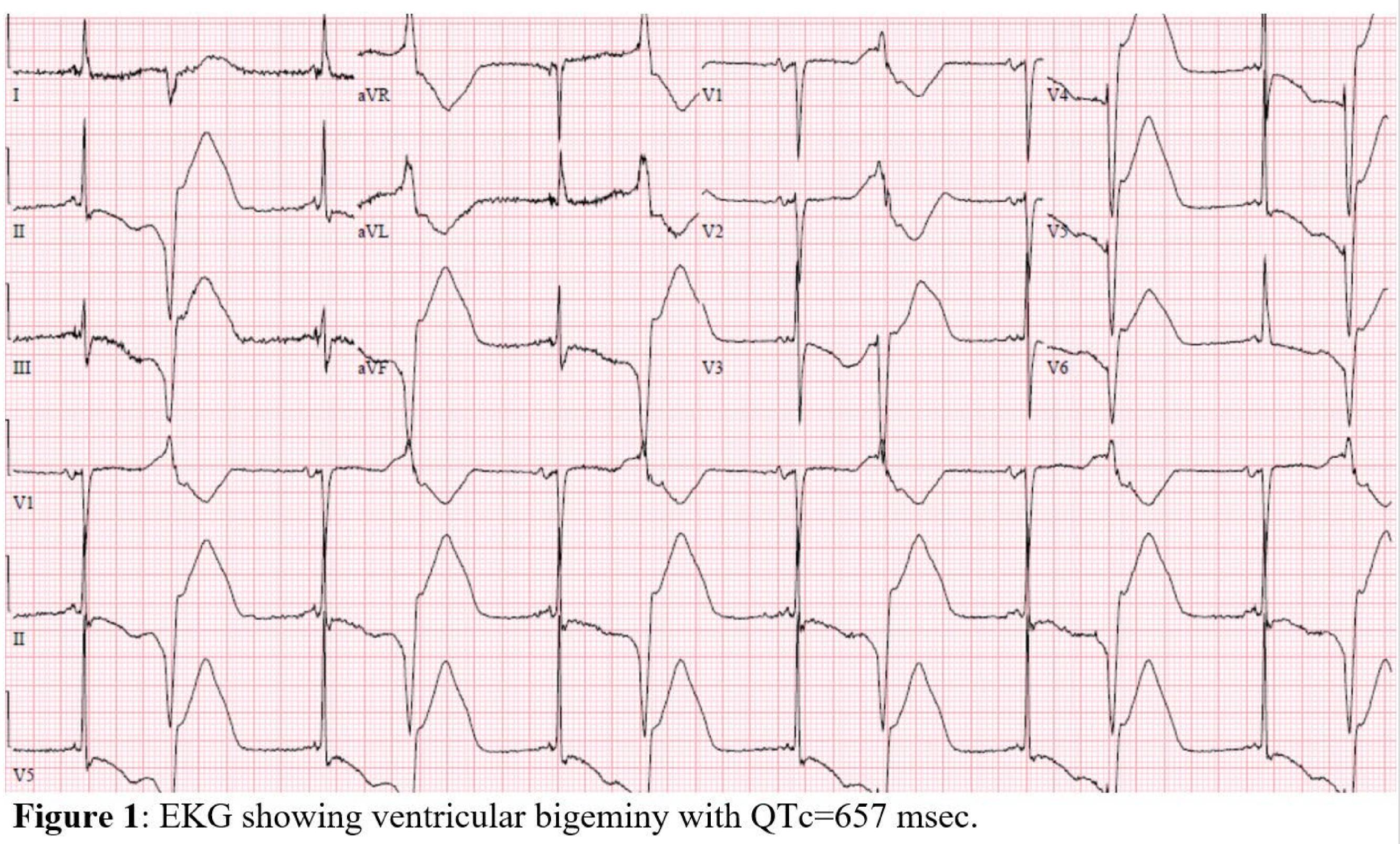
Methadone can minimize this. In patients on methadone, interval QTc monitoring with serial EKGs can prevent life-Suboxone can be life-saving.

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Prolonged QTc and Torsade de Pointes In The Setting of Methadone Use

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precipitate arrhythmia by Initially, she was started on a heparin drip for PE and later switched to Eliquis. prolonging QTc. Aggressive electrolyte repletion and Given loss of normal sinus rhythm (NSR) and evidence of TdP, she was mitigation of exacerbating factors like PE can transferred to the CCU for close monitoring. Central line was placed for aggressive repletion of potassium with return of NSR. Methadone was held and QTc eventually normalized after eight days, consistent with its half-life. threatening TdP. Transitioning high risk patients to Addiction Medicine was consulted, and the patient was discharged with Suboxone as an outpatient.

Disclosures: All authors have no disclosures.

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Decision Making



