A misguided ‘pill in the pocket’ approach with flecainide leading to cardiac arrest

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DESCRIPTION

A 67-year-old woman was initially complaining of breathlessness and had a single syncope before she went into cardiac arrest. First monitored rhythm was a slow pulseless electrical activity. Return of spontaneous circulation was achieved by cardiopulmonary resuscitation within 20 min. The ECG on admission to the intensive care unit showed an irregular rhythm due to intermittent high-degree atrioventricular block with very broad QRS complexes (figure 1). The patient was treated with orciprenaline and a temporary pacemaker. Coronary angiography did not show any coronary stenosis.

After a detailed medical history with her husband we found out that flecainide was prescribed as a ‘pill in the pocket’ therapy for atrial fibrillation despite a pre-existing right bundle branch block with left-anterior hemiblock. Additionally, due to a misunderstanding between the patient and her treating physician, she took flecainide 100 mg twice daily on a regular basis.

Furthermore, there was a history of chronic kidney disease (serum creatinine 1.8 mg/dl) leading to a trough plasma flecainide level of 0.8 mg/l measured in hospital 12 h after the last ingestion. This borderline high plasma flecainide level was obviously sufficient to provoke a life-threatening situation in the setting of a pre-existing conduction disturbance.

The patient was treated with therapeutic hypothermia and remained pacemaker dependent for 24 h. During the next days, the QRS complex became narrower while still showing the pre-existing bifascicular block (figure 2). We discharged the patient from the intensive care unit in a good neurological condition after 9 days.

Learning points

▸ Avoid flecainide in patients with pre-existing conduction disturbances.
▸ Be aware that the rate of flecainide elimination is slower in patients with chronic kidney disease.1
▸ Make sure that the patient understands correctly what is meant by a ‘pill in the pocket’ therapy.

Competing interests None.

Figure 1 ECG on admission showing an irregular rhythm due to intermittent high-degree atrioventricular block with very broad QRS complexes.
Patient consent Obtained.

REFERENCE