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Brugada syndrome associated with out-of-hospital cardiac arrest: A case report

Ni GH *et al.* Brugada syndrome associated with out-of-hospital cardiac arrest

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Abstract

BACKGROUND

Brugada syndrome (BrS) is an inherited disease characterized by an electrocardiogram (ECG) with a coved-type ST-segment elevation in the right precordial leads (V1-V3), which predisposes to sudden cardiac death (SCD) due to polymorphic ventricular tachycardia (VT) or ventricular fibrillation (VF) in the absence of structural heart disease. We report the case of a 29-year-old man with out-of-hospital cardiac arrest. BrS is associated with a high incidence of SCD in

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Brugada syndrome is associated with an **increased risk for sudden cardiac death**. 1 Hypothermia is often used in experimental models of Brugada syndrome because it produces Brugada-like J-ST segment elevation.2, 3, 4 However, it remains unclear how therapeutic hypothermia clinically affects electrocardiogram and outcome in Brugada syndrome. We report a case of Brugada syndrome in which therapeutic hypothermia was performed after out-of-hospital cardiac arrest.

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- How often does Brugada syndrome occur in men?
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Brugada Syndrome

Medical Condition

Abnormal heart rhythm



- Breathlessness
- Blackout
- Palpitations
- Seizures
- Cardiac arrest

A genetic disorder characterized by a disruption in the normal heart rhythm. The common symptom is fainting.

- Rare (Fewer than 200,000 cases per year in US)
- Requires lab test or imaging
- Treatable by a medical professional
- Can last several years or be lifelong

It is caused by genetic mutation. Blackouts, seizures, palpitations and breathlessness are the observed symptoms. The treatment of the condition includes medication and a procedure where an ICD is implanted in the body.

Symptoms

Usually asymptomatic but some of these symptoms may be observed:

- Blackouts - temporary loss of consciousness
- Seizures
- Palpitations