



ELSEVIER

Available online at www.sciencedirect.com

ScienceDirect

journal homepage: www.elsevier.com/locate/ihj

Images in Cardiology

Brugada pattern induced by fever

Ajay K. Sharma ^{a,*}, Loveena Lama ^a, E. Kevin Heist ^b^a Department of Internal Medicine, Charlton Memorial Hospital, Fall River, MA, USA^b Department of Cardiology, Charlton Memorial Hospital, Fall River and Massachusetts General Hospital, Boston, MA, USA

ARTICLE INFO

Article history:

Received 26 May 2014

Accepted 18 February 2015

Available online 27 April 2015

Keywords:

Brugada pattern/syndrome

Fever

ECG

A forty-nine year old female with a past medical history of myasthenia gravis, status post thymectomy and hypertension presented with fever of 103 F, pleuritic chest pain and cough. Interestingly, her ECG showed type 1 Brugada pattern (Fig. 1). She also gave a history of unexplained syncopal episodes for many years with inconclusive prior work up including a normal echocardiogram, stress test and Holter monitoring. She was treated for community acquired pneumonia. Her ECG returned to baseline in the next few days with improvement in her pneumonia and resolution of her fever (Fig. 2). Given type 1 Brugada ECG pattern induced by fever and unexplained

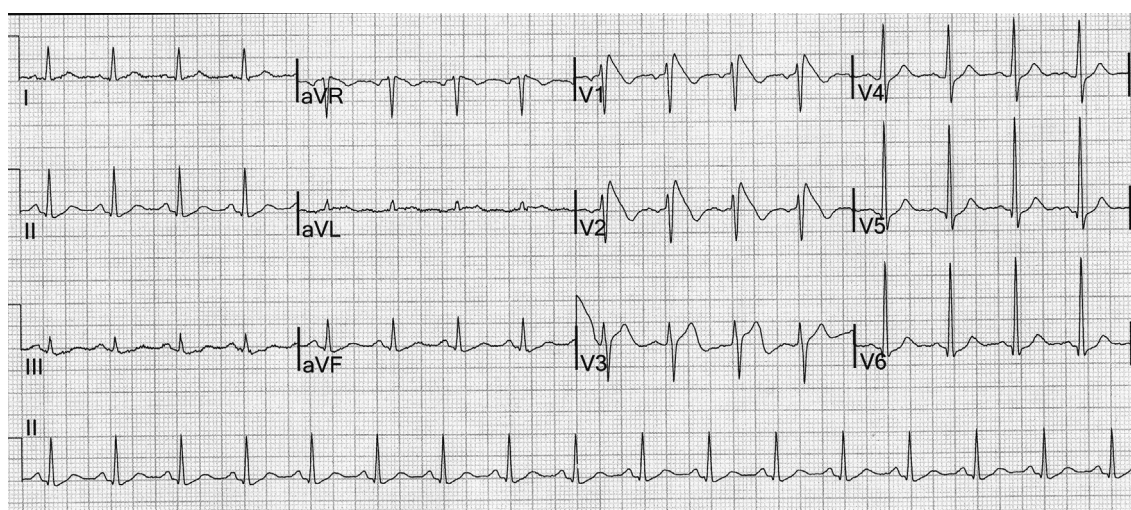


Fig. 1 – ECG showing Brugada pattern on presentation with fever.

* Corresponding author. 55 Fruit Street, Boston, MA, USA. Tel.: +1 718 736 5753.

E-mail address: aksharma@partners.org (A.K. Sharma).

<http://dx.doi.org/10.1016/j.ihj.2015.02.031>

0019-4832/Copyright © 2015, Cardiological Society of India. All rights reserved.

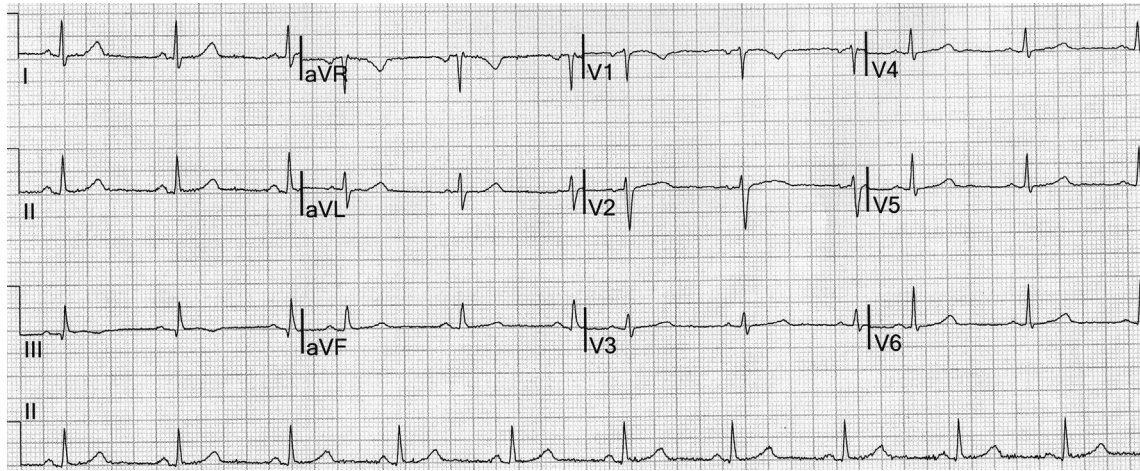


Fig. 2 – ECG showing resolution of Brugada pattern on treatment of pneumonia which was the cause of fever.

syncope, an implantable defibrillator was placed after her infection was treated. Fever is a known trigger for ECG changes and cardiac arrest in patients with Brugada syndrome.¹ Commercial genetic testing did not identify a causative mutation for her Brugada EKG pattern.

Conflicts of interest

All authors have none to declare.

REFERENCE

1. Postema PG. Fever and the electrocardiogram: what about Brugada syndrome? *Heart Rhythm*. 2013;10:1383–1984.