

**40624****Fever following Covid-19 vaccination in subjects with Brugada syndrome: incidence and management**

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**Background:** Fever is a potential side effect of Covid-19 vaccination. Patients with Brugada syndrome (BS) have an increased risk of life-threatening arrhythmias when experiencing fever. A prompt treatment with antipyretic drugs is suggested in these patients.

**Aim of the study:** To evaluate the incidence and management of fever within 48 hours from Covid-19 vaccination among BS patients.

**Methods:** 163 consecutive patients were enrolled in a prospective registry involving 5 European hospitals with a dedicated inherited disease ambulatory.

**Results:** Mean age was  $50 \pm 14$  years and 121 (75%) patients were male. Prevalence of Brugada ECG pattern type-1,-2 and -3 was 32 %, 44%, 24%, respectively. Twenty-eight (17%) patients had an implantable cardioverter defibrillator.

Fever occurred in 32 (19%) BS patients after  $16 \pm 10$  hours from vaccination, with peak of body temperature of  $37.9 \pm 0.5$  degrees. Patients with fever were younger ( $39 \pm 13$  vs  $48 \pm 13$  years,  $p=0.04$ ). No additional differences in term of sex and cardiovascular risk factors were found between patients with fever and not.

Twenty-seven (84%) out of 32 patients experienced mild fever and five (16%) moderate fever. Pharmacological treatment with antipyretic drugs was required in 18 (56%) out of 32 patients and was associated with resolution of symptoms.

No patient required hospital admission and no arrhythmic episode was recorded in patients with ICD within 48 hours after vaccination.

**Conclusion:** Fever is a common side effect in BS patients after Covid-19 vaccination. Careful evaluation of body temperature and prompt treatment with antipyretic drug may be needed.