# Rivaroxaban induced petechial purpuric rash over chest at precordial chest leads of ECG

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## **DESCRIPTION**

A man in his 60s presented to dermatology outpatient department for skin lesions over the chest since 1 day. He was on treatment for deep vein thrombosis. Cutaneous examination revealed six patterned well-defined petechial purpuric rashes over the chest in distribution typical of precordial chest leads (figure 1). There was no history of itching, pain or bleeding. As there was no significant itching or any personal or previous history of atopy and allergic reactions, the possibility of allergic contact dermatitis to ECG leads was not considered, and a patch test was also not performed. Complete haemogram, platelet count and coagulation profile were normal. A clinical diagnosis of purpuric lesions secondary to ECG chest leads suction balls was made. The patient was administered empirically chewable vitamin C and the lesions subsided within a week without any postlesional events. The causal relation of appearance of purpuric lesions along the precordial ECG leads can be explained by the suction pressure of suction balls of ECG leads with patient being on direct oral anticoagulant rivaroxaban.

The direct oral anticoagulant rivaroxaban is useful in deep vein thrombosis prophylaxis/treatment, after knee/hip replacement surgery and

Figure 1 Six patterned well defined petechial purpuric rash over chest in distribution typical V1–V6 chest leads.

prevention of stroke in patients with non-valvular atrial fibrillation. 1 Its mechanism of action has been mostly associated with haemorrhage-related adverse effects. Clinicians should be aware of such rare adverse reactions and a proper history regarding the medications should be obtained before ECG recording. There are no such observations published in the available literature and hence the reporting of the image to alert physicians and ECG technicians.

# **Learning points**

- ► Patients on direct oral anticoagulant can develop patterned purpuric lesions along the ECG lead sites.
- Prior history of anticoagulants needs to be taken whenever suction balls of ECG leads are used for recording ECG.

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## **REFERENCE**

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