The Shortest Route To the Heart

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Abstract

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Written informed consent was obtained from the child father to publish this report in accordance with the journal’s patient consent policy.

Abstract

A six-year-old girl, living in a rural part of Sudan, suffered an accidental penetrating wound to the chest, caused by a sewing needle inserted during a collision with her nine years old sister. She was taken to the nearest district unit, where they tried to remove it but were unsuccessful. She was then transferred to the regional hospital where a chest X Ray showed the needle to be embedded within the heart (Figure 1). She was referred to the cardiothoracic unit in Khartoum.

She arrived into the cardiothoracic unit 13 days after the incident, on arrival she was haemodynamically stable. Echocardiography showed the needle to be embedded within the myocardium, with a small part protruding into the LV cavity about three millimetre, and a small protrusion into the pericardial space, there was a small rim of pericardial effusion, which did not look haemorrhagic (Figure 2).

She underwent successful surgery with no complications.

Learning point

Wounds of the heart by needles are rare injuries, but are serious (1, 2). Complications may demand immediate surgical Intervention, such complications include tamponade, valvular dysfunction, arterial embolism and infection.

References