Coronary pseudoaneurysm secondary to blunt chest trauma

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A 26-year-old man suffered a severe impact in a car crash. Computed tomography showed an image suspicious for coronary injury (Fig. 1a). Coronary angiography (Fig. 1b, Supplementary Video 1) revealed a pseudoaneurysm of the first diagonal branch. Sealing was cancelled because of spontaneous healing (Fig. 1c, Supplementary Video 2). Pseudoaneurysm disappeared and coronary artery remained normal after 6 months (Fig. 1d).

Supplementary material (Video 1 and Video 2) is available at EJCTS online.

Figure 1: Spiral computed tomography (CT) depicted an image suspicious for coronary injury (arrow) adjacent to the tips of a fractured rib (a). Coronary angiography performed in order to assess the feasibility of percutaneous sealing confirmed the lesion (b). Stent implantation was scheduled for 4 days later but due to ongoing thrombosis it was decided not to intervene (c). Re-evaluation by CT angiography showed the first diagonal branch tethered at the fractured rib site, but there was no evidence of the pseudoaneurysm and vessel perfusion was fairly normal (d).