Penetrating chest wound with twisted steel

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A 28-year old male fell from 3-m-high scaffold and sustained penetrating wound. The computed tomography (CT) revealed a segment of twisted steel stayed at the left chest (Figs 1 and 2). He underwent surgery for removal of the steel, repair of superior branch of left pulmonary artery and wedge resection of wounded lung tissue.

Figure 1: Posteroanterior chest radiography (a) and three-dimensional reconstruction of CT angiogram (b) shows twisted steel (arrow pointing) penetrating through the left chest.

Figure 2: The CT shows the path of the steel (a). The steel penetrates through the superior lobe of the left lung, tightly close to the descending aorta (b, AO: aorta), and makes the origin of the superior branch of the left pulmonary artery ruptured (c, LPA: left pulmonary artery).