

IMAGE IN CARDIOVASCULAR MEDICINE

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Complete revascularization via left snuffbox approach in a nonagenarian patient with acute myocardial infarction

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A 94-year-old woman was admitted to the documented hospital with a 1-week history of intermittent angina. The electrocardiogram showed ST-segment depression in inferolateral leads and a high sensitivity troponin level was elevated. Echocardiography demonstrated hypokinesia of inferior, posterior and lateral walls. Urgent coronary angiography (CAG) was planned via the right radial approach after loading of acetylsalicylic acid 300 mg and clopidogrel 300 mg, but the right radial artery was pulseless. Therefore, CAG was performed via the left distal radial approach in the area of the "anatomical snuffbox" (Fig. 1A, B, Suppl. Video 1). CAG demonstrated diffuse intermediate to severe stenosis in proximal to mid right coronary artery (RCA) (Fig. 1C, left) and severe stenosis in the circumflex artery (LCx) and obtuse marginal branch (Fig. 1D, left). Thus, complete revascularization was achieved with 4.0×9 mm and 3.5×38 mm zotarolimus-eluting stents (ZESs) in the RCA (Fig. 1C, right) and a 3.0×24 mm ZES in the LCx (Fig. 1D, right). There was no bleeding complication of the puncture site with a compressive bandage with gauze for 3 h (Fig. 1E, F).

Regarding complete revascularization in patients with acute myocardial infarction, the feasibility of the distal radial artery approach, called snuffbox approach, has not been known well [Kim et al., Korean Circ J. 2018; 48: e118]. Furthermore, percutaneous coronary intervention (PCI) via the right conventional radial approach for very old patients is sometimes challenging due to a difficulty of catheter manipulation by severe subclavian tortuosity leading to crossover to femoral access, even though the transradial approach significantly reduces vascular complication in elderly patients. This case highlights the feasibility of mutivessel PCI via the left snuffbox approach in a very old patient with acute myocardial infarction.

Conflict of interest: None declared

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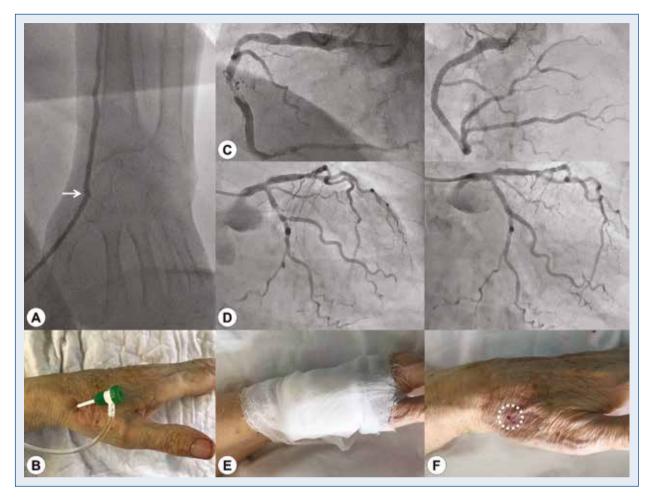


Figure 1. A. Peripheral angiography of left hand demonstrating successful puncture of the left distal radial artery (arrow: puncture site of left snuffbox approach); **B.** Inserted 6 Fr sheath via left snuffbox approach; **C.** Pre- (left) and post-interventional (right) coronary angiography in the right coronary artery; **D.** Pre- (left) and post-interventional (right) coronary angiography in the left circumflex artery; **E.** Hemostasis by manual compressive bandage with gauze; **F.** No vascular complication of puncture site the following day (white circle).