ABSTRACT
The anatomical variations with respect to the origin of radial artery has been reported extensively in the literature. The incidence of superficial radial artery is 0.5% and associated with high origin of radial artery. Awareness about normal variation and the possibility of unilateral variation of radial artery course could prevent complications during intravenous and arterial cannulation in the upper limb.

Keywords: Unilateral Anatomical variation, Superficial Radial Artery, Arterial cannulation

INTRODUCTION
A 65yr old male patient belonging to American Society of Anesthesiologists Class 3 was posted for Thoracic Pott’s spine decompression and stabilisation. A wide bore intravenous cannulation and an arterial cannulation was planned for invasive monitoring. An abnormal pulsation of the blood vessel in the origin of cephalic vein region was noted on the right distal forearm as we were about to cannulate the cephalic vein (Fig 1). Normal radial artery pulsation on the right side was absent. Surprisingly, the radial artery course on the distal left forearm was normal and was cannulated. Postoperatively, we confirmed that there was no history of bony or soft tissue injury.

The anatomical variations with respect to the origin of radial artery has been reported extensively in the literature by anatomists. The incidence of superficial radial artery is 0.5% and associated with high origin of radial artery.\(^1\) Abnormal course of radial artery and its implications during percutaneous coronary intervention and radial artery graft retrieval during coronary artery bypass grafting, has been reported by interventional cardiologist \(^2\) and cardiothoracic surgeons.\(^3\)

Anaesthetic implication of such variation would be inadvertent arterial cannulation and accidental injection of the drugs intra-arterially. Inadvertent injection of drugs intra-arterially, would lead to arterial spasm, gangrene.\(^4\)

To conclude, awareness about normal variation and the possibility of unilateral variation of radial artery course could prevent complications during intravenous and arterial cannulation in the upper limb. All medical personnel should be aware of such variations and to be borne in mind even during simple procedures like intravenous cannulation. Whenever Cephalic vein is prominent or tortuous do look for the pulsatility of the vessel before cannulation.

REFERENCES
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Figure 1: Unilateral presence of superficial radial artery over the anatomical snuff box