

## Anatomical variations in origin of middle circumflex femoral artery

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**M**CFA has a wide variety of origin in the femoral segment. The majority derived from PFA, 60% on the left and 40% on the right. 50% on the right side and 35% on the left side derived from CFA. The least percentage is followed by CFA as a common trunk with PFA 10% on right and 5% on left. Nasr et al. portrayed that most common origin from PFA 60% each on male and female followed by origin from CFA 14% on male and 17.5% on female, CFA as a common trunk with PFA 18% on male and 15% on female, Superficial Femoral Artery (SFA) 8% on male and 10% on female exhibit 5 varieties in the origin of MCFA. The majority emerge from PFA 78.3%. The second highest begins from the CFA 11.7%, 5% arises from the SFA. Origination from CFA as a common trunk with PFA and from CFA as a common trunk with LCFA have 1.6% each. A cadaveric study exhibited 7 varieties in origin of MCFA. 50.2% got from PFA followed by CFA as a common trunk with PFA 14.6%, common femoral artery 13.1%, CFA with PFA and LCFA 9%, SFA 2.5%, CFA as a common trunk with LCFA 1.9% and 0.6% cases its absent. The origin of MCFA from PFA is in its 64.6% cases. In 32.2% of the lower extremities, it originate from CFA followed by SFA in 1% of cases and 0.5% are absent. Rare form of variation 0.4% origin is from external iliac artery. Most recognized side of beginning of MCFA is the medial side. Besides, concluded 2 variation sides as posteromedial and posterior 25% on right, 15% on left and 15% on right, 10% on left respectively. Medial side aspect described in 60% on right and 75% on left, 58.9% , Samarawickrama et al. 62% , Siddharth et al. 63% . Awareness of these origins will allow the specialists to minimize iatrogenic injuries. These varieties are clinically huge and ought not to be disregarded.

**Abbreviations:** Medial Circumflex Femoral Artery [MCFA], Lateral Circumflex Femoral Artery [LCFA], Common Femoral Artery [CFA], Profunda Femoral Artery [PFA], Superficial Femoral Artery [SFA].