

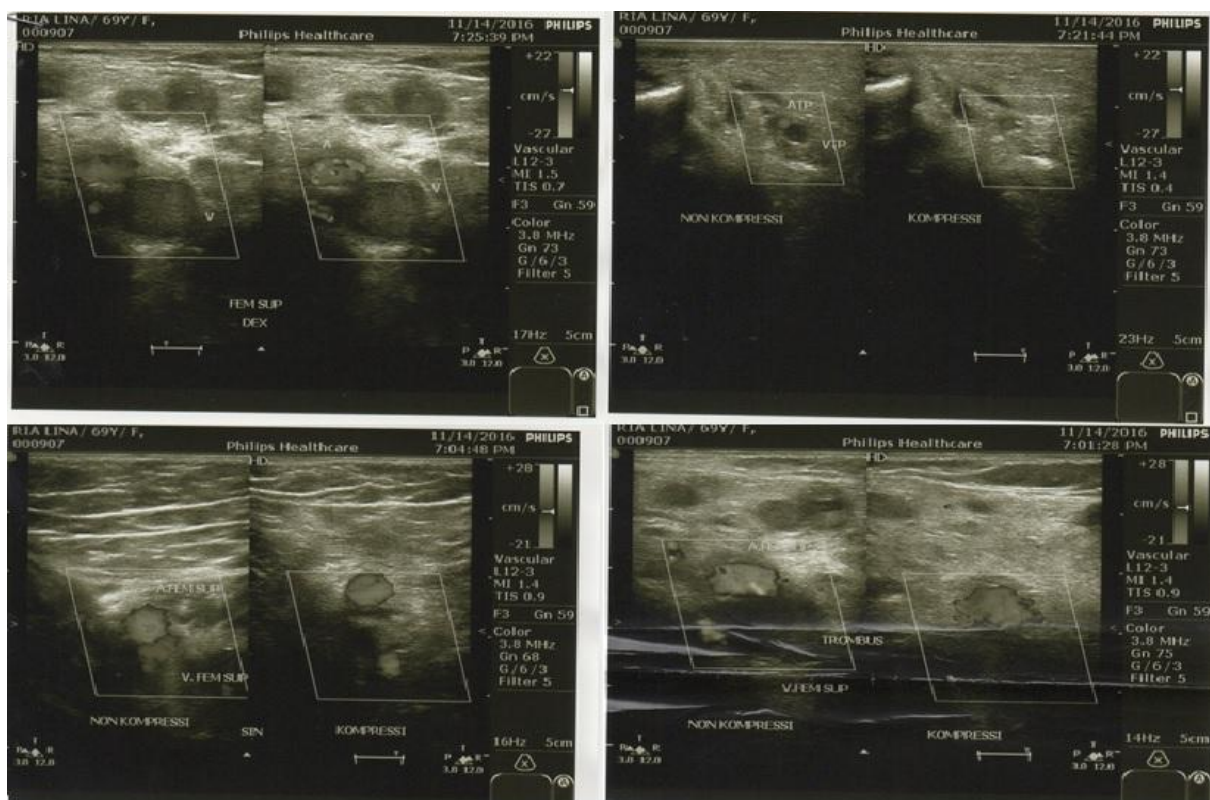
LOWER-LIMB VENOUS-THROMBO EMBOLISM IN POST ELECTIVE PERCUTANEOUS CORONARY INTERVENTION: A CASE REPORT

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Background: Most clinicians are focusing on artery's complications that might be happen due to manipulation on artery while the PCI procedure. However, vein's complication is also happen in rarity.

Case description: A 69-year-old female patient was undergone an elective-PCI procedure. Patient's medical history with hypertension and hyperlipidemia; pacemaker implanted; decreased effort tolerance-shortness of breath; significant mid RCA and LAD lesion shown by CT Coronary Angiogram. The PCI procedure was done through access of the right common femoral artery. A 6-French Cordis Exoseal for vascular closure device was utilized. After discharging, the patient complained of a painful swelling of her right leg. Physical examination showed diffuse swelling of the entire right leg and bruising around the puncture site. A vascular Doppler study was performed. It demonstrated thrombus in the right proximal superficial femoral vein.



Then, the patient was treated with Enoxaparin 60 mg subcutaneous bi-daily for 5-days continuously. Furthermore, anti-embolic stockings were applied. During discharge, she started on Rivaroxaban 15mg per-oral once-daily for a month. Upcoming follow-up, the symptoms were fully resolved.

Discussion: Filis et al. report the incidence of complications after PCI is approximately 0.43%, mostly involving pseudo-aneurysm (40%), hematomas (20%), bleeding (13%), and vein thrombosis (0.05%). Post catheterization compression was believed the cause of thrombosis formation. Other possible causes are immobilization, closure device usage, and venous trauma during arterial catheterization.

Conclusion: Lower-limb venous-thromboembolism is rarely happen following the PCI procedure. However, clinicians should be aware of this possible complication and immediate anti-coagulant treatment is necessary.