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Manuscript Title:

Acute deep venous thrombosis induced by May-Thurner Syndrome after spondylolisthesis surgery:
a case report and literature review

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Abstract:

Deep venous thrombosis (DVT) is a serious complication of lumbar spine surgery. Current guidelines recommend pharmacomechanical prophylaxis in patients at high risk of DVT after spinal surgery. One underestimated cause of DVT is May-Thurner Syndrome (MTS), a venous anatomical variation that might be involved in invasive intervention. To date, no published work has reported any case of symptomatic MTS caused by isthmic spondylolisthesis or subsequent acute DVT after posterior lumbar surgery. We here present a case of a patient who developed an acute DVT 4 hours after spondylolisthesis surgery, and MTS was considered only after surgery during a review of a gynecological enhanced computerized tomography (CT) imaging taken before the procedure. We here show that clinicians should consider MTS in the presence of this dangerous triad: spondylolisthesis, elevated D-dimer levels, and sonographically indicated unilateral deep...

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