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## Traumatic popliteal artery entrapment syndrome

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A 20-year-old man presented 1 month history of left calf pain with limping and coldness. He is a soldier. He fell into a tank hatch by accident 1 month ago. After that accident, he had left calf clamping pain and limping gait. He had no past medical history. His left lower leg was cold and left foot color was paler. The motor power was decreased to grade 4 and the sensory deficit was 5/10. His left popliteal artery pulse was slightly decreased and dorsalis pedis artery pulse was weak. The simple X-ray showed no bony abnormalities. The ultrasound showed decreased amplitude of left proximal popliteal artery and disappeared biphasic pattern of distal left popliteal artery compared with right popliteal artery. But peripheral CT angiography showed no significant luminal narrowing of both lower leg arteries. We couldn't perform ankle-brachial index because patient's pain was severe during tourniquet compression. So, we checked Digital Infrared Thermal Imaging (DITI). In the DITI, there was no visible thermal imaging of left below the knee level and it means the left lower leg temperature was below the 26 degree. The MRA showed decreased left artery size below popliteal artery compared with right artery and MRI showed swelling and edema of left posterior deep muscle. So, we performed peripheral angiogram, we can find the short segment narrowing of left popliteal artery. He was performed popliteal artery angioplasty with saphenous vein patch. At post operation 10 days, DITI showed increased left leg temperature difference between left and right leg. Therefore, his final diagnosis was traumatic popliteal artery entrapment syndrome. And DITI is a useful and non-invasive diagnostic tool for evaluation of vascular insufficiency.

## **Biography**

Hyun Hee Choi has her expertise in evaluation and passion in improving the health. Her specialty and interesting subjects are coronary artery disease intervention and endovascular treatment of peripheral artery disease. She obtained degree of Physics in the Ewha Woman's University before being Doctor. She has tried to use her knowledge of physics to evaluation and improvement of medical department.

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