# Young man, cigarette smoking and abdominal pain: Mesenteric involvement of Buerger's disease

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## Abstract (300 word limit)

Buerger's disease, as known as thromboangiitis obliterans, is a progressive, non-arteriosclerotic, inflammatory disease occurring in male smokers younger than 40-50 years of age. Thromboangiitis obliterans predominantly produces occlusion of small to medium-sized vessels of upper and lower extremities. Intestinal involvement of thromboangiitis obliterans is rare. We report a case of 32-year-old male cigarette smoker who had prior history of thromboangiitis obliterans of lower limbs and presented at our institution due to acute abdominal pain. Physical exam revealed diffuse, tender abdomen with diminishing bowel sound. Digital rectal exam found blood in feces. With a high index of suspicion for mesenteric ischemia, emergent surgery was arranged. Bowel infarction was diagnosed by diagnostic laparoscopy and was managed successfully with bowel resection. Thromboangiitis obliterans with mesenteric vascular involvement was confirmed by pathological examination. The literature concerning mesenteric involvement of thromboangiitis obliterans is reviewed. Discussion: In most reported cases, mesenteric involvement of Buerger's disease occurred after the disease had affected lower extremities. Mesenteric involvement had been the initial clinical manifestation of Buerger's disease in one reported case. If a young male with habit of cigarette smoking presented ischemic abdominal pain, especially with history of Buerger's disease, mesenteric involvement of Buerger's disease should be a part of differential diagnosis.

## Image



## Recent Publications (minimum 5)

1. Lee KS, Paik CN, Chung WC, Lee KM, Jung SH, Kawk JW, Jung JH, Baik JH (2010) Colon ischemia associated with Buerger's disease: case report and review of literature. Gut Liver 4:287-291.
2. Turkbey B, Eldem G, Akpinar E (2009) Mesenteric ischemia in a patient with Buerger's disease. JBR-BTR 92:211-212.
3. Cakmak A, Gyedu A, Akyol C, Kepenekci I, Koksoy C (2009) Occlusion of the celiac trunk, the inferior mesenteric artery, and stenosis of the superior mesenteric artery in peripheral thromboangiitis obliterans. Vasa 38:394-396.
4. Leung DK, HasKal ZJ (2006) SIR 2006 film panel case: mesenteric involvement and bowel infarction due to Buerger's disease. J Vasa Interv Radiol 17: 1087-1089.
5. Cho YP, Kang GH, Han MS, Jang HJ, Kim YH, Kwon TW, Lee SG (2005) Mesenteric involvement of acute stage Buerger's disease as the initial clinical manifestation: report of a case. Surg Today 35:499-501



## Biography (150 word limit)

Jing-Jim Ou had his expertise of minimal invasive surgery in the field of colon and rectal disease. He completed surgical residency training at Tri-Service General Hospital and then worked as an attending surgeon at Show Chwan Memorial Hospital. In 2010, he had fellowship training at IRCAD in Strabourg. With accumulation of the experience of minimal invasive surgery, now he also worked as one of the local faculty in Asian Institute of TeleSurgery.

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**Notes/Comments:**