A 56-year-old man, with a history of chronic hypertension and smoking, presented to our hospital for increasing symptoms for lower extremity intermittent claudication and impotence. Clinical examination revealed decreased femoral pulses and nonpalpable popliteal, dorsalis pedis, and posterior tibial pulses bilaterally. No vascular skin lesions were noted on the legs. The ankle–brachial indexes were markedly reduced, 0.45 on the right and 0.48 on the left. Lerch syndrome was diagnosed.

Multidetector computed tomography (MD-CT) with coronal volume rendering reconstruction (►Fig. 1) demonstrated abdominal aortic occlusion just below the origin of renal arteries (white arrowhead) with extension of nonvisualization to the bilateral common iliac arteries, confirming the origin of the Lerche diagnosis.

A hypertrophic network of collateral vessels with revascularization to the bilateral iliac axis was highlighted. The following arteries formed collateral pathways: (1) superior mesenteric artery (yellow arrowhead) communicates with inferior mesenteric artery via Riolan’s arc (white arrows), (2) inferior mesenteric artery (green arrowhead) through the superior rectal artery (red arrows) provides blood flow to internal iliac artery (red arrowheads), and (3) inferior epigastric arteries (blue arrowheads) guarantee blood flow to the bilateral external iliac arteries (yellow arrows). Based on these findings, the patient was a candidate for vascular surgery for aortobifemoral bypass grafting.

Abdominal aorta and bilateral iliac occlusive disease characterize as Lerche syndrome. A triad of symptoms/signs are seen: claudication, erectile dysfunction, and decreased distal pulses. The physiopathology results from obstructive atheromatous plaque formation at the level of the abdominal aorta and iliac arteries. The diagnosis is based on symptoms, ankle–brachial index, and diagnostic imaging. Angio MD-CT with three-dimensional reconstruction is the first-line diagnostic noninvasive imaging technique to evaluate aortoiliac disease.1–4 This clearly demonstrates the extension of aortoiliac occlusion, arterial collateral pathways, and (with postprocessing) permits planning the correct treatment.2 Treatment is focused on
revascularization with either percutaneous endoluminal techniques or aortobifemoral bypass graft surgery.

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Conflict of Interest
The authors declare no conflict of interest related to this article.

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Fig. 1 Multidetector computed tomography with coronal volume rendering reconstruction shows abdominal aortic occlusion below renal arteries origin’s (white arrowhead) with extension to bilateral common iliac arteries. Note the hypertrophic network of collateral vessels: (1) superior mesenteric artery (yellow arrowhead) communicates with inferior mesenteric artery via Riolan’s arc (white arrows), (2) inferior mesenteric artery (green arrowhead) through the superior rectal artery (red arrows) provides blood flow to internal iliac artery (red arrowheads), and (3) inferior epigastric arteries (blue arrowheads) guarantee blood flow to the bilateral external iliac arteries (yellow arrows).