## **Scholars Journal of Medical Case Reports**

Abbreviated Key Title: Sch J Med Case Rep ISSN 2347-9507 (Print) | ISSN 2347-6559 (Online) Journal homepage: <u>https://saspublishers.com</u>

Medical Science

OPEN ACCESS

ase Report

# Isolated Spontaneous Dissection of the Common Iliac Artery: A Rare Case Report

Eddich Yassine<sup>1\*</sup>, Noureddine Lahlou<sup>1</sup>, Ilyas el hachimi<sup>1</sup>, Nizar taoussi<sup>1</sup>, Mehdi khayoussef<sup>1</sup>, Tarik bakkali<sup>1</sup>, Hassan toufik chtata<sup>1</sup>

<sup>1</sup>Ibn Sina university hospital

DOI: https://doi.org/10.36347/sjmcr.2025.v13i06.010

| Received: 28.04.2025 | Accepted: 01.06.2025 | Published: 05.06.2025

#### \*Corresponding author: Eddich Yassine Ibn Sina university hospital

ion onia aniversity noopital

Abstract	(

Spontaneous dissection of peripheral arteries, particularly when not involving the aorta, is a rare clinical entity. This report discusses the case of a 61-year-old male with isolated, spontaneous dissection of the left common iliac artery. The patient presented with moderate abdominal and thigh pain without a history of trauma. Imaging revealed a 1.9 cm dissection of the common iliac artery. A conservative management approach was adopted with symptom resolution. The case highlights the importance of recognizing vascular anomalies and individualizing management.

Keywords: Iliac artery dissection, spontaneous dissection, conservative treatment, vascular anomalies, case report. Copyright © 2025 The Author(s): This is an open-access article distributed under the terms of the Creative Commons Attribution 4.0 International License (CC BY-NC 4.0) which permits unrestricted use, distribution, and reproduction in any medium for non-commercial use provided the original author and source are credited.

## **INTRODUCTION**

Spontaneous dissection of peripheral arteries, without aortic involvement, is rare. Even more exceptional is the non-traumatic, isolated dissection of the common iliac artery over a short segment.

## **CASE PRESENTATION**

We report a 61-year-old male, ex-smoker, with a history of hypertension managed by diet, admitted for

sudden, moderate pain in the left flank radiating to the ipsilateral thigh. There was no history of recent trauma or femoral catheterization. General examination was normal aside from mild flank tenderness. Peripheral pulses were intact and symmetrical. Laboratory findings were unremarkable. Abdominal ultrasound was normal. However, abdominal CT angiography revealed a 1.9 cm long, isolated dissection of the left common iliac artery without signs of rupture or thrombosis (Figure 1).



Figure 1A : Sagittal section of a CT angiogram of the aorta and lower limbs showing a short, isolated dissection of the left common iliac artery

**Citation:** Eddich Yassine, Noureddine Lahlou, Ilyas el hachimi, Nizar taoussi, Mehdi khayoussef, Tarik bakkali, Hassan toufik chtata. Isolated Spontaneous Dissection of the Common Iliac Artery: A Rare Case Report. Sch J Med Case Rep, 2025 Jun 13(6): 1342-1344.



Figure 1B: Cross-sectional view of a CT angiogram of the aorta and lower limbs showing a short, isolated dissection of the left common iliac artery

The patient was managed conservatively with analgesics, antiplatelet therapy, and optimized hypertension control. He experienced complete symptom resolution. A follow-up CT angiogram is scheduled in 6 months.

## **DISCUSSION**

Arterial dissection primarily affects the aorta and carotid arteries. Iliac artery involvement is very rare [1-5]. Non-traumatic, isolated dissection of the iliac artery may be associated with connective tissue disorders such as Marfan syndrome, fibromuscular dysplasia, or cystic medial degeneration [1]. Other cases have been linked to hormonal changes in women or pregnancy [2], atherosclerosis [3], or physical exertion [4].

In this case, given the patient's age and uncontrolled hypertension. atherosclerosis was considered the underlying cause. The dissection was warranting focal and minimally symptomatic, conservative management including analgesia, antiplatelet therapy, and cardiovascular risk factor control.

Due to the rarity of this condition, therapeutic indications remain unclear. Liang et al. reported that asymptomatic patients can be safely managed conservatively [5]. Nonetheless, long-term monitoring is essential as progression to aneurysm is possible. Annual or biannual imaging is advised. Immediate surgical or endovascular repair is indicated in cases of rupture or limb ischemia.

In our patient, a 6-month imaging follow-up is planned. Further treatment will depend on lesion stability: either continued observation or interventional management if progression or aneurysmal changes occur.

### CONCLUSION

Isolated iliac artery dissection is extremely rare, often related to connective tissue disease. Emergency intervention is necessary when complications arise, but in stable, minimally symptomatic cases, conservative treatment with close follow-up is a viable option.

Conflict of Interest: None declared.

#### Funding: None.

**Consent for Publication:** Informed consent was obtained from the patient.

#### **Highlights:**

- Rare case of isolated dissection of the common iliac artery
- Non-traumatic presentation with moderate symptoms
- Managed conservatively with medical therapy and clinical improvement
- Importance of imaging and close follow-up in vascular anomalies

#### REFERENCES

- Dueppers P, Jankowiak S, Schelzig H, Wagenhäuser MU, Oberhuber A. Spontaneous Rupture of an Isolated Iliac Artery Dissection in a Young Man because of Cystic Medial Degeneration Erdheim– Gsell. Annals of Vascular Surgery. Avril 2015 29(3) : 596.e11–596.e13.
- 2. Nolte JE, Rutherford RB, Nawaz S, Rosenberger A, Speers WC, Krupski WC. Arterial dissections

Eddich Yassine et al, Sch J Med Case Rep, Jun, 2025; 13(6): 1342-1344

associated with pregnancy. Journal of Vascular Surgery. Mars 1995 21(3):515–520.

- Declemy S, Kreitmann P, Popoff G, Diaz F. Spontaneous Dissecting Aneurysm of the Common Iliac Artery. Annals of Vascular Surgery. Nov 1991 ;5(6):549–551.
- 4. Ehsan O, Darwish A, Edmundson C, Mills V, Al-Khaffaf H. Non-Traumatic Lower Limb Vascular

Complications in Endurance Athletes. Review of Literature. European Journal of Vascular and Endovascular Surgery. Juil 2004;28(1):1–8.

 Liang Z, Guo W, Du C, Xie Y. Effectiveness of the conservative therapy for spontaneous isolated iliac artery dissection : Preliminary results. Vascular. 30 août 2017;25(6):649–656.