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**Manuscript Type:** CASE REPORT

**A Missed diagnosis of femoral profound artery rupture after femoral shaft fracture: A case report**

Ge J *et al.* Profound artery rupture after femoral fracture

Jun Ge, Ke-Yu Kong, Xiao-Qiang Cheng, Peng Li, Xing-Xing Hu, Hui-Lin Yang, Min-Jie Shen

### Abstract

#### BACKGROUND

Vascular injury is a rare complication of femoral shaft fractures and the rupture of the deep femoral artery is more difficult to diagnose because of its anatomical location and symptoms. Despite the fact that its low incidence, deep femoral artery rupture can lead to life-threatening outcomes, such as compartment syndrome, making early identification and diagnosis critical.

#### CASE SUMMARY

A 45-year-old male patient was delivered to our hospital due to the right lower

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4907019>

Misdiagnosis of pathological **femoral fracture** in a patient with intramuscular hemangioma: **A case report** XIAOLONG YU , 1, \* TAO NIE , 1, \* BIN ZHANG , 1 MIN DAI , 1 HUCHENG LIU , 2 and FAN ZOU  
1 1 Department of Orthopedics, The First Affiliated Hospital of Nanchang University, Artificial Joints Engineering and Technology Research Center of ...

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Mar 31, 2016 · In this report, we present the case of **delayed diagnosis** and management of a **deep femoral artery rupture**. This **rupture** occurred during the insertion of a distal interlocking screw with a **proximal femoral nail** for the fixation of an **intertrochanteric fracture**.

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**femoral fracture**. The **missed diagnosis** of IH led to the **rupture** of an incision following open reduction and internal fixation (ORIF), which was accompanied by extensive blood loss. A careful review of the patient's history and detailed clinical examination are important for the identification of fractures,

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In this **report**, we present the **case** of delayed **diagnosis** and management of a deep **femoral artery rupture**. This **rupture** occurred during the insertion of a distal interlocking screw with a proximal **femoral nail** for the fixation of an intertrochanteric **fracture**.

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This case report presents a **false aneurysm** of the **superficial femoral artery after minimally invasive plate fixation** for complex **distal fracture** of the **femur**. This is a rare but severe complication, and is difficult to **diagnose**.



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Introduction. Acute or late **rupture** of arteries **after femoral fracture** is rare and usually caused by iatrogenic trauma<sup>1</sup> or rarely by bone spikes.<sup>2,3</sup> The profunda femoris pseudoaneurysms following various orthopedic surgical procedures have previously been described.<sup>1</sup> The **diagnosis** is usually delayed because of nonspecific clinical features such as pain, anemia, fever, and hematoma.<sup>1</sup>

**Cited by:** 1 **Author:** Hamidreza Varastehravan, Hossein Noug...

**Publish Year:** 2010

### [Missed diagnosis of false aneurysm of the superficial ...](#)

<https://www.sciencedirect.com/science/article/pii/S1877056814001777>

This case report presents a 38-year-old male patient who developed a **false aneurysm** of the **superficial femoral artery after minimally invasive plate internal fixation** of a **comminuted articular distal femoral fracture sustained** in a motor vehicle accident. Two days **after surgery**, the patient developed pain, non-pulsatile swelling on the medial side of the knee and anemia.

**Author:** M. Lazarov, H. Van der Bracht, J. Victor, ...

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##### Pseudoaneurysm

A pseudoaneurysm, also known as a false aneurysm, is a collection of blood that forms between the two outer layers of an artery, the tunica me...