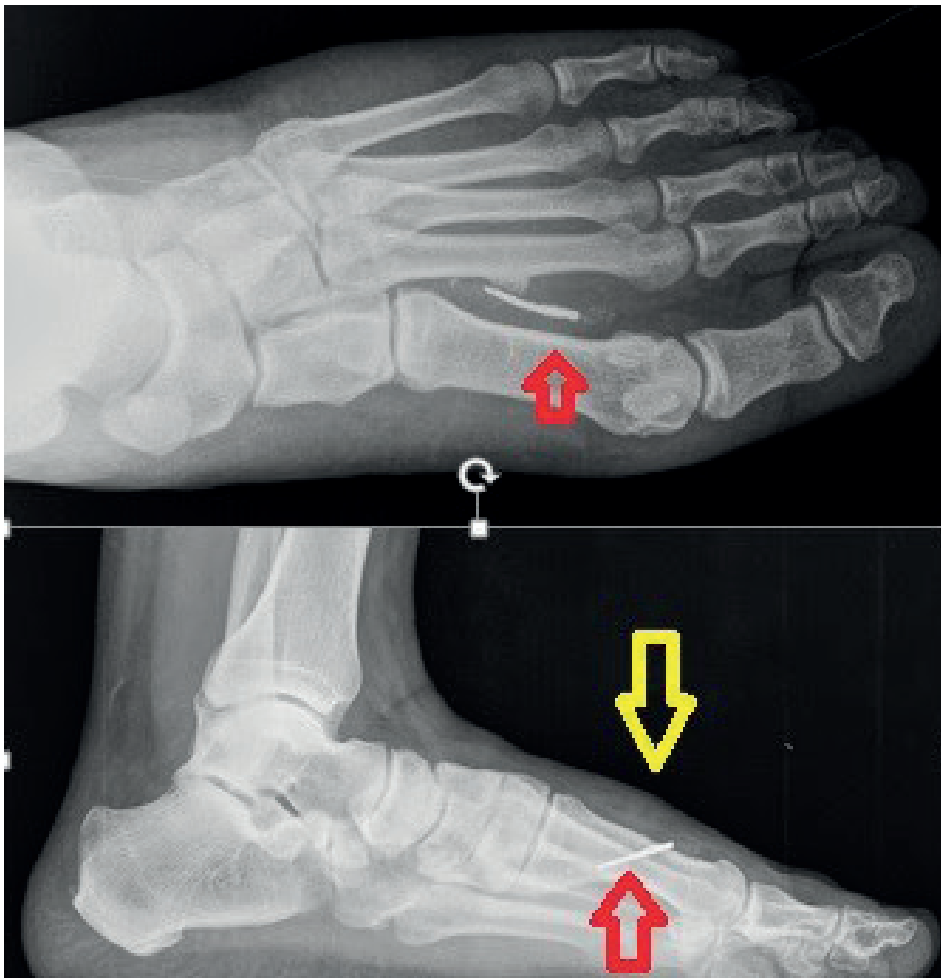


**Figure 1.** Yellow arrow for soft tissue swelling and red arrow for foreign body.



**Figure 3.** Yellow arrow for soft tissue swelling and red arrow for foreign body.

8 days. The patient had pain in the left foot when walking. Examination revealed tenderness and swelling in the first webspace. There was no discharge, blush, or rapid increase of swelling. There was no history of fever or loss

of appetite. The patient gave a history of foreign body injury in the left foot with a nail 24 years ago. His complaints started 2 months after he started jogging.



**Figure 2.** Surgery revealed an approximately 3-cm long glass piece.

AP and lateral views of the forearm showed a foreign body and swelling at the previous injury site (Figure 3). Surgical removal was planned. Under local anesthesia, a 2.5-cm-long metal nail piece was extracted from the incision made on the swelling site (Figure 4). The patient was discharged the same day and called for follow-up. After a week, the symptoms were gone.

## Discussion

Foreign body injuries are frequently encountered in emergency rooms and orthopedic departments. Tissue damage, inflammation, infection are characteristic signs of such an injury. Delayed wound healing, toxic, or allergic reactions associated with the type of foreign body could also be seen. Even if no pathological condition is encountered in the short period, it may occur in the long period. Although these injuries look simple, their complications could be serious. In literature, complications vary from soft tissue abscess to osteomyelitis [3,5]. In these two cases, symptoms were relatively simple, just a secondary soft tissue injury. But the situation that made our cases unique, was the timeline without any symptoms. Our probable explanation was microtraumas with every muscle movement made this process for 10 years and 24 years, respectively.

Gulati et al. [5] reported an 8-year-old forearm foreign body injury. In that case report, a 10-year-old boy was reported with pain and swelling for 6 weeks. Surgical intervention revealed a 14 mm long slender wooden foreign body which penetrated 8 years ago. This case was presented with infectious findings and healed after surgery.

According to a study by Salati et al. [6], Wooden splinters were the most missing foreign body, followed by metallic fragments and glass fragments in hand. However, only one patient was presented after 2 years, in our cases, one foreign body was glass, another was a metallic nail. Wooden splinters are known to be radiolucent which is the cause of being the most missing object.

Another case report by Yang et al. [7] was a flexor pollicis longus rupture due to migration of a retained foreign



**Figure 4.** Surgery revealed a 2,5-cm long metal nail piece.

body. This case was about a 30-year-old glass fragment injury. This case report demonstrates that even after 30 years, a foreign body can migrate and trigger more serious injuries

In current literature, standard AP and lateral radiographic views are the first options for foreign body injuries. However, injuries by wooden pieces or glass pieces smaller than 2 mm may require other modalities to evaluate [2,8]. Ultrasound, computed tomography scan, and magnetic resonance imaging could be useful in injuries with these radiolucent materials. In the first case, the radiographic evaluation revealed an approximately 3 cm long piece of glass. Radiographic evaluation is important as symptoms of these injuries could mimic other conditions such as tumors and allergic reactions.

The first approach to these injuries should always start with the application of the tetanus vaccine (if necessary) and prophylactic antibiotherapy. Removal of objects is usually the main goal of surgery, but debridement of necrosed tissues and irrigation should be applied to all cases. Necrosed tissues may serve as a source for soft tissue infections. This case was a late symptom, therefore only surgical intervention was applied.

## Conclusion

Foreign body extremity injuries are common injuries. Although these injuries could be forgotten in long term and may cause soft tissue injuries even after a long time [5]. Therefore, foreign body injuries should be kept in mind in the presence of symptoms of inflammation, infection, and allergic reactions. Detailed patient history and imaging are important for diagnosing foreign body injuries in suspected cases.

### What is new?

Symptoms of foreign body injuries are well documented in the literature. But there are few cases of late presence. This article presents two cases with late symptoms, which are rarely seen.

### List of Abbreviations

AP Anterior-posterior

### Conflict of interest

The author declares that there is no conflict of interest regarding the publication of this case report.

### Funding

None.

### Consent for publication

Written consent was obtained from all the patient.

### Ethical approval

Ethical approval is not required at our institution to publish an anonymous case report.

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### References

1. Özer M, Türker M, Başbuğ V, Kesik K, Türkmen F, Kaçıra BK, et al. Evaluation of deep-seated soft tissue foreign bodies according to gender and age groups. *Selcuk Med J.* 2019;35(1):24–30. <https://doi.org/10.30733/std.2019.01131>
2. Alemdar C, Demirtaş A, Azboy İ, Gem M, Özkul E, Bulut M, et al. Orthopedic approach to foreign body injuries. *J Clin Exp Invest.* 2013;4(4):443–8. <https://doi.org/10.5799/ahinjs.01.2013.04.0321>
3. Chandrashekara CM, George MA, Al-Marboi BS. Neglected foreign body, the cause of navicular osteomyelitis in a paediatric foot: a case report. *J Ortho Case Rep.* 2013;3(3):26–9. <https://doi.org/10.13107/jocr.2250-0685.111>
4. Ekinci Y, Gurbuz K, Çiraklı A, Ekinci D, Çiraklı S. *Pseudomonas aeruginosa* as a cause of septic arthritis after a sewing needle injury. *Ege J Med.* 2016;55(2):95–7. <https://doi.org/10.19161/etd.344192>
5. Gulati D, Agarwal A. Wooden foreign body in the forearm - presentation after eight years. *Ulus Travma Acil Cerrahi Derg.* 2010;16(4):373–5.
6. Salati SA, Rather A. Missed foreign bodies in the hand: an experience from a center in Kashmir. *Libyan J Med.* 2010;5(1):5083. <https://doi.org/10.3402/ljm.v5i0.5083>
7. Yang SS, Bear BJ, Weiland AJ. Rupture of the flexor pollicis longus tendon after 30 years due to migration of a retained foreign body. *J Hand Surg.* 1995;20(6):803–5. [https://doi.org/10.1016/S0266-7681\(95\)80052-2](https://doi.org/10.1016/S0266-7681(95)80052-2)
8. Courter BJ. Radiographic screening for glass foreign bodies--what does a "negative" foreign body series really mean? *Ann Emerg Med.* 1990;19(9):997–1000. [https://doi.org/10.1016/S0196-0644\(05\)82562-4](https://doi.org/10.1016/S0196-0644(05)82562-4)

### Summary of the case

1	<b>Patient details</b>	Female, 77 years old
2	<b>Symptoms</b>	Syncope
3	<b>Final diagnosis</b>	Syncope secondary to AHCM
4	<b>Clinical procedures</b>	Echocardiogram
5	<b>Clinical specialty</b>	Cardiology
6	<b>Interesting features</b>	Lateral ST segment elevation on ECG secondary to AHCM