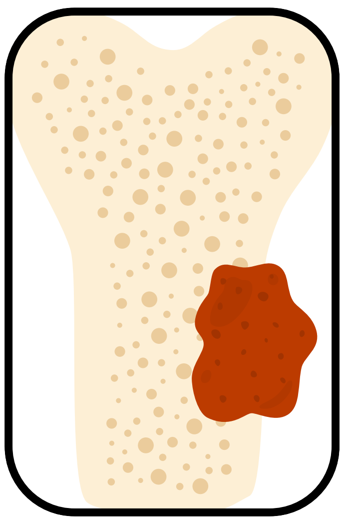
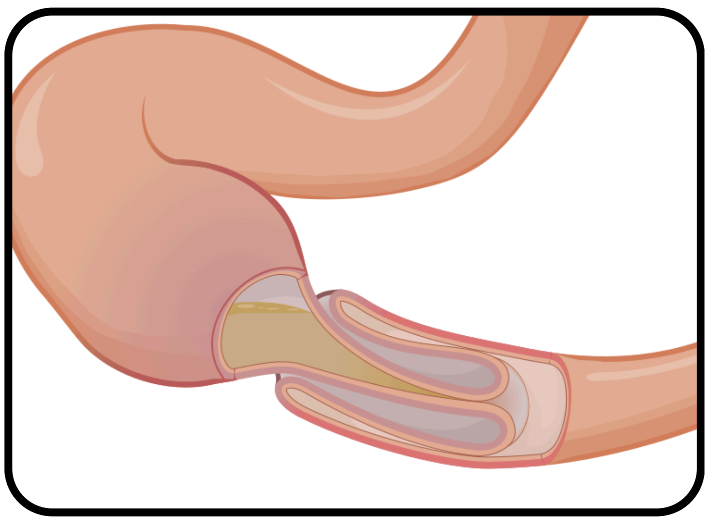
# Jejunojejunal Intussusception Caused by Intestinal Metastasis of Osteosarcoma in an Adolescent Patient

Ahmed Omar Ali, Seçil Yuksel, Osman Hakan Kocaman, Başak Erginel

*İstanbul Üniversitesi, İstanbul Tıp Fakültesi, Çocuk Cerrahisi AD*



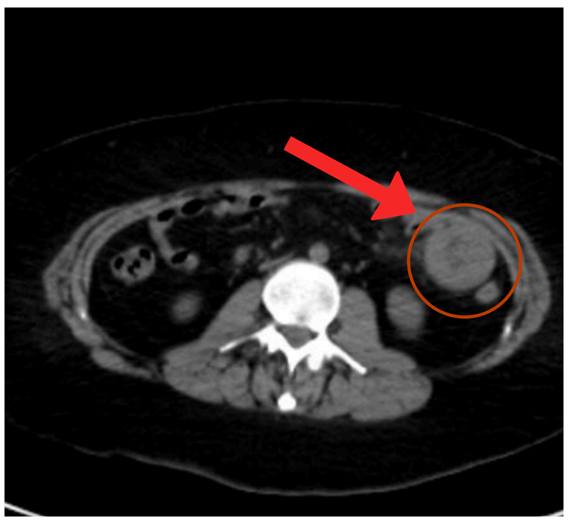


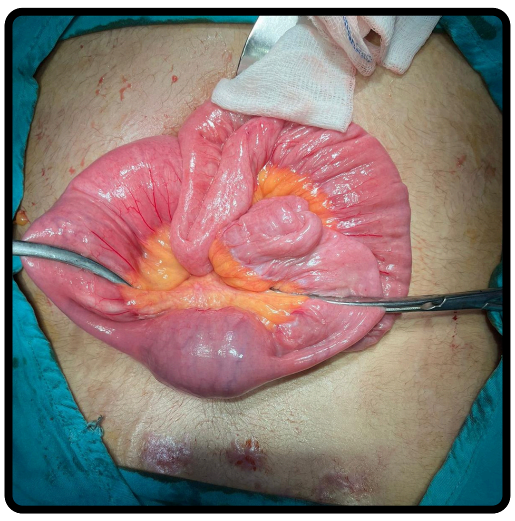
## Introduction

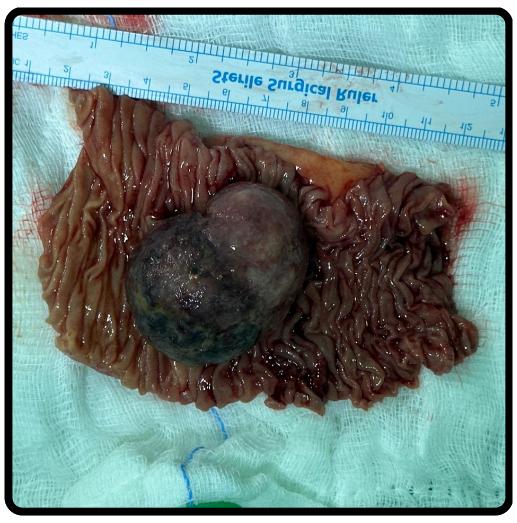
- Osteosarcoma is a high-grade long bones malignant tumor affecting adolescents and young adults.[4]
- The lungs are the most common site for distant metastases.[4]
- Small bowel metastases are exceptionally uncommon; and rarely act as a a pathological lead point for Intussusception in adolescents.[1,3,5]
- This case highlights a rare presentation of jejunojejunal intussusception caused by metastatic osteosarcoma.[3,5]

## Case

- 17 y, female, abdominal pain, vomiting,
- Medical history of high-grade osteosarcoma of the left femur treated with wide excision and adjuvant chemotherapy
- She developed pulmonary metastasis 18 months after diagnosis, managed with left lower lobectomy, and a year ago,
- Had a metastatic lesion surgically removed from the left ventricle of the heart.







- Abdominal exam showed tenderness in the right lower quadrant without peritoneal signs.
- CT imaging revealed a 10 cm jejunojejunal intussusception with a suspected intraluminal lesion at the lead point.
- Urgent exploratory laparotomy done. The intussusception was confirmed and manually reduced. A firm, well-circumscribed 5 cm mass was palpated in the jejunum. Segmental small bowel resection with primary anastomosis was performed.
- Histopathology confirmed metastatic osteosarcoma.

## Conclusion

- This case demonstrates the rare event of osteosarcoma metastasis causing jejunojejunal intussusception.
- Surgical resection provides both treatment and diagnosis. Early diagnosis and intervention improve outcomes in complex oncologic cases.

## References

1. Bacci, G., Ferrari, S., Longhi, A., Donati, D., De Paolis, M., Forni, C., et al. (2006). Osteosarcoma metastases to the gastrointestinal tract: Report of three cases and review of the literature. Skeletal Radiology, 35(9), 648–653.
2. Fitzgerald, J. F., Hernandez, J. A., & Chiou, C. C. (1987). Intussusception in children: A 25-year review of diagnosis and treatment. Radiology, 161(3), 609–612.
3. Lange, B. J., Makley, J. T., & Pratt, C. B. (1995). Intussusception as a presentation of metastatic osteosarcoma. Journal of Pediatric Surgery, 30(1), 122–124.
4. Marina, N., Gebhardt, M., Teot, L., & Gorlick, R. (2004). Biology and therapeutic advances for pediatric osteosarcoma. The Oncologist, 9(4), 422–441.
5. Qureshi, S. S., Kembhavi, S., Ramadwar, M., & Vora, T. (2005). Intussusception in children: A rare presentation of secondary metastatic disease. Pediatric Surgery International, 21(9), 721–723.

8th WORLD CONGRESS of PEDIATRIC SURGERY
WOFAPS
12-15 November 2025
Titanic Mardan Palace Hotel
ANTALYA, TÜRKIYE