

BÖLÜM

18

# VERTEBRANIN TRAVMA ve SPOR YARALANMALARI

*Recep AYDIN<sup>1</sup>*

**Vaka 1:** Tip II Odontoid Fraktür

**Vaka 2:** Burst Fraktürü

**Vaka 3:** Hangman Fraktürü

**Vaka 4:** Chance Kırığı

**Vaka 5:** Ekstansiyon Teardrop Fraktürü

**Vaka 6:** Jefferson Kırığı

---

<sup>1</sup> Uzman Doktor, Adiyaman Üniversitesi Radyoloji AD, raydin63@gmail.com

## Tedavi ve yaklaşım

---

Tedavi seçenekleri kırığın stabil ve不稳定 olması ve arter yaralanmasına göre belirlenmektedir. Tedavi seçenekleri konservatif veya cerrahidir. Gehweiler sınıflamasına göre Tip 1, 2 ve 5 olanlarda 6 haftalık servikal immobilizasyon ve servikal boyunluk önerilir. Tip 5 fraktürde arterial yaralanma tespiti açısından MR veya BT anjiyografi ile inceleme yapılır (18). Tip 3 ve 4 kırıklarda TAL yaralanması, dislokasyon, fragmente parça ve eşlik eden diğer servikal kırıklara bağlı olarak stabil veya不稳定 olduğuna kara verilerek cerrahi veya konservatif tedavi seçilir.

## KAYNAKLAR

---

1. Sayama, Christina M, Fassett DR, et al. The utility of MRI in the evaluation of odontoid fractures. *J Spinal Disord Tech.* 2008;21 (7):524-526.
2. Jea A, Tatsui C, Farhat H, et al. Vertically unstable type III odontoid fractures: case report. *Neurosurgery.* 2006;58 (4):797.
3. Cahueque M, Cobarr A, Zuniga C, et al. "Management of burst fractures in the thoracolumbar spine." *Journal of orthopaedics.* 2016;13 (4):278-281.
4. Lee IS, Kim HJ, Lee JS, et al. Dural tears in spinal burst fractures: predictable MR imaging findings. *Am J Neuroradiol.* 2009;30 (1): 142-146.
5. Williams, T. G. "Hangman's fracture." *The Journal of bone and joint surgery. British volume* 57.1 (1975): 82-88.
6. Al-Mahfoudh R, Beagrie C, Woolley E, et al. "Management of typical and atypical Hangman's fractures." *Global Spine Journal* 6.3 (2016): 248-256.
7. Resnick D, and M. Partrchia. "Physical injury spine." *Bone and joint disorders* 64 (2002): 3004-3008.
8. Effendi B, Roy D, Cornish B, et al. "Fractures of the ring of the axis. A classification based on the analysis of 131 cases." *The Journal of bone and joint surgery. British volume* 63.3 (1981): 319-327.
9. Li, Xin-Feng, et al. "A systematic review of the management of hangman's fractures." *European Spine Journal* 15.3 (2006): 257-269.
10. Chance GQ. Note on a type of flexion fracture of the spine. *British Journal of Radiology.* 1948; 21:452-453.
11. Bernstein, Mark P, Stuart E. Mirvis, et al. "Chance-type fractures of the thoracolumbar spine: imaging analysis in 53 patients." *American Journal of Roentgenology* 187.4 (2006): 859-868.
12. Al Jallaf Muna, Hessa Al Delail, and Laila Hussein. "Let's review Chance fracture." *Case Reports* 2015 (2015): bcr201.420.6924.
13. Lopez AJ, Scheer JK, Smith ZA, et al. "Management of flexion distraction injuries to the thoracolumbar spine." *Journal of Clinical Neuroscience* 22.12 (2015): 1853-1856.
14. Schneider RC, Kahn EA, Chronic neurological trauma to the spine and spinal cord. Part I. The significance of the acute flexion or 'teardrop' fracture dislocation of the cervical spine. *J Bone Joint surg (Am)* 1956;38: 985-997
15. Keskil Semih, Murat Göksel, and Ulaş Yüksel. "Unilateral lag-screw technique for an isolated anterior 1/4 atlas fracture." *Journal of craniovertebral junction & spine* 7.1 (2016): 50.
16. Gehweiler JA, Osborne RL, Becker RF. *The radiology of vertebral trauma.* St. Louis, MO:WB Saunders: 1980.
17. Walsh Gregory S, and Michael D. Cusimano. "Vertebral artery injury associated with a Jefferson fracture."- *Canadian journal of neurological sciences.* 1995;22(4) 308-311.
18. Kandziora F, Scholz M, Pingel A et al. "Treatment of atlas fractures: recommendations of the spine section of the german society for orthopaedics and trauma (DGOU)." *Global spine journal* 8.2\_suppl (2018): 5S-11S.