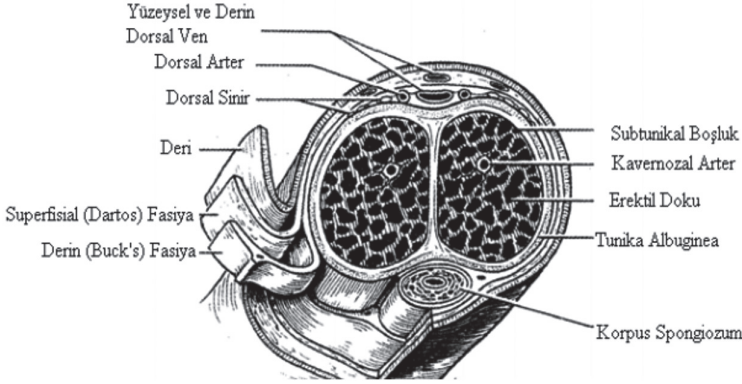


PENİL FRAKTÜR

Kasım ERTAŞ

Anatomi

Penis iki adet korpus kavernözüm ve bir adet korpus spongiozumdan meydana gelir. Dıştan içe doğru katmanlar deri, süperfisiyal fasya (Dartos fasyası), Derin fasyası(Buck) ve tunika albuginea olarak sıralanır. Şekil 1’de penis enine kesit gösterilmektedir.



Şekil 1. Penis Anatomisi

Buck fasyası hem kavernözüm cismi hem de spongioz cismi sarar. Tunika albuginea, kollajen ve elastik liflerden meydana gelir. Tunika albuginea iki katmandan meydana gelir. Kavernöz cisim proksimalde iskiopubik ramusun altından başlar penil shaftı meydana getirir. Spongioz cisim glansa doğru inceler ve distalde glans penisini oluşturur.

KAYNAKLAR

1. Miller S, McAninch JW. Penile fracture and soft tissue injury. In: McAninch JW, ed. *Traumatic and Reconstructive Urology*. Philadelphia: W. B. Saunders; 1996; chapter 59, pp. 693-8
2. Elke N. Fracture of the penis. *Br J Surg*. 2002;89:555-565.
3. El-Sherif AE, Dauleh M, Allowneh n, Vijayan P. Management of fracture of the penis in quatar. *Br J Urol*. 1991;68:622-625
4. Barros R, Schulze L, Ornellas AA, et al. Relationship between sexual position and severity of penile fracture. *Int J Impot Res*. 2017;29:207. doi: 10.1038/ijir.2017.24.
5. Haas CA, Brown SL, Spirnak JP. Penile fracture and testicular rupture. *World J Urol*. 1999;17:101-6. doi: 10.1007/s003450050114
6. Amer T, Wilson R, Chlosta P, AlBuheissi S, Qazi H, Fraser M, Aboumarzouk OM. Penile Fracture: A Meta-Analysis. *Urol. Int*. 2016;96(3):315-29.
7. Zargooshi J. Penile fracture in Kermanshah, Iran: report of 172 cases. *J Urol*. 2000;164:364-6.
8. Dincel C, Caskurlu T, Resim S, Bayraktar Z, Tasci AI, Sevin G. Fracture of the penis. *International Urology and Nephrology*. 1998; 30 (6): 761-5.
9. De Rose AF, Giglio M, Carmignani G. Traumatic rupture of the corpora cavernosa: New physiopathologic acquisitions. *Urology*. 2001; 57: 319-22.
10. Hsu GL, Brock G, Martinez-Pineiro L, von Heyden B, Lue TF, Tanagho EA. Anatomy and strength of the tunica albuginea: its relevance to penile prosthesis extrusion. *J Urol*. 1994; 151: 1205-8.
11. Sawh SL, O'Leary MP, Ferreira MD, Berry AM, Maharaj D. Fractured penis: A review. *Int J Impot Res*. 2008; 20: 366-9.
12. Sant GR. Rupture of the corpus cavernosum of the penis. *Arch Surg*. 1981; 116: 1176-8.
13. Ghanem AN. Re: penile fractures in Kermanshah. *Br J Urol*. 2002;89:890.
14. Miller S, McAninch JW. Penile fracture and soft tissue injury. In: McAninch JW, editor. *Traumatic and Reconstructive Urology*. Philadelphia: W.B. Saunders; 1996. pp. 693-698
15. Fergany AF, Angermeier KW, Montague DK. Review of Cleveland Clinic experience with penile fracture. *Urology*. 1999;54:352-355
16. Pruthi RS, Petrus CD, Nidess R, Venable DD. Penile fracture of the proximal corporeal body. *J Urol*. 2000;164:447-448.
17. Miller S, McAninch JW. Penile fracture and soft tissue injury. In: McAninch JW, ed. *Traumatic and Reconstructive Urology*. Philadelphia: W.B. Saunders; 1996:693-8.
18. Zargooshi J. Penile fracture in Kermanshah, Iran: report of 172 cases. *J Urol*. 2000;164:364-6.
19. Karadeniz T, Topsakal M, Ariman A. Penile fracture: differential diagnosis, management, and outcome. *Br J Urol*. 1996;77:279-281
20. Pliskow RJ, Ohme RK. Corpus cavernosography in acute 'fracture' of the penis. *AJR Am J Roentgenol*. 1979;133:331-332.
21. Dierks P, Hawkins H. Sonography and penile trauma. *J Ultrasound Med*. 1983; 2: 417-9.
22. Bhatt S, Kocakoc E, Rubens DJ, Seftel AD, Dogra VS. Sonographic evaluation of penile trauma. *J Ultrasound Med*. 2005; 24: 993-1000

23. Fedel M, Venz S, Andreessen R, Sudhoff F, Loening SA. The value of magnetic resonance imaging in the diagnosis of suspected penile fracture with atypical clinical findings. *J Urol*. 1996; 155(6): 1924-7.
24. Thompson RF. Rupture of the penis. *J Urol*. 1954;71:226-229
25. Summerton DJ, Campbell A, Minhas S, Ralph DJ. Reconstructive surgery in penile trauma and cancer. *Nat Clin Pract Urol*. 2005; 2(8): 391-7.
26. Eke N. Fracture of the penis. *Br J Surg*. 2002;89:555-565
27. Agrawal SK, Morgan BE, Shafique M. Experience with penile fracture in Saudi Arabia. *Br J Urol*. 1991;67:644-646
28. Naraynsingh V, Maharaj D, Kuruvilla T, Ramsewak R. Simple repair of fractured penis. *J R Coll Surg Edinb*. 1998;43:97-98.
29. Maharaj D. Re: Penile fractures in Kermanshah, Iran. *J Urol*. 2001;165:1223-1224.
30. Seftel AD, Haas CA, Vafa A, Brown SL. Inguinal scrotal incision for penile fracture. *J Urol*. 1998;159:182-184.
31. Mellinger BC, Douenias R. New surgical approach for operative management of penile fracture and penetrating trauma. *Urology*. 1992;34:429-432.
32. Ishikawa T, Fujisawa M, Tamada H, Inoue T, Shimatani N. Fracture of the penis: nine cases with evaluation of reported cases in Japan. *Int J Urol*. 2003; 10(5): 257-60
33. Gontero P, Muir GH, Frea B. Pathological findings of penile fractures and their surgical management. *Urol Int*. 2003; 71(1): 77-82
34. Orvis BR, McAninch JW. Penile rupture. *Urol Clin North Am*. 1989;16:369-375.
35. Devine CW, Jordan GH, Schlossberg SM. Surgery of the penis and urethra. In: Walsh PC, Retik AB, Stamey TA, Vaughan ED, editors. *Campbell's Urology*. 6th ed. Philadelphia: W.B. Saunders; 1992. pp. 2957-3032. Güncel Üroloji 2. Baskı

Referans kitaplar:

- 1)EAU Guidelines
- 2) Temel Üroloji 4. Baskı
- 3) Smith Urology 17. Baskı
- 4) Campbell-Walsh Urology 9. Baskı
- 5)Güncel Üroloji 2.baskı