

Bölüm 20

PİLONİDAL SİNÜS HASTALIĞI VE KRİSTALİZE FENOL UYGULAMASI

Sami AÇAR¹

GİRİŞ

Pilonidaller gluteal yarılığın altında, kalçaların arasında, kuyruk sokumunun üzerinde bulunan apselerdir. Pilo = Kıl; Nidus = Yuva anlamına gelir. Pilonidal, "kıl yuvası" olarak tanımlanmaktadır. Tarihte ilk defa 1847 yılında, Abraham Wendell Anderson'un Boston Medical Surgical Journal dergisinde yayınlanan "Ülserden çıkarılan kıl" başlıklı yazısında bahsedilmiştir. Richard Manning Hodges 1880 yılında, sakrokoksigeal bölgede, içinde kıl yumağı olan kronik sinüse "pilonidal sinüs" adını vermiştir. Bazı pilonidal apselerin dikkat çeken ölçünde tuy içermesi, ismin doğrulunu gösterir. Kıl yumakları bir parmak kalınlığına kadar ulaşabilir. Natal kleft (gluteal yarık), kalçalar arasında, sakrumun hemen altından perineye, anüsün üstüne uzanan oluktur. Burası koksiksi örten derinin derin katmanlarının anokoksigeal rafeye sabitlenmesi sonucu oluşur. Dik duran kişide her iki gluteal kas arasındaki sınırı meydana getirmektedir.

Pilonidal sinüs hastalığı erkeklerde kadınlara göre iki - dört kat fazla görülür. Beyazlarda, Asya ve Afrikalılardan daha sık rastlanır. ABD'de görülmeye insidansı 100000'de 26'dır. Erkeklerde 21, kadınlarda ortalama 19 yaşında gözlenmektedir (1-3). 45 yaş üzerinde yer alan yetişkinlerde ve çocuklarda daha seyrek saptanmaktadır. Hastalar genelde akut ya da kronik hastalık şeklinde başvurmaktadır.

¹ Dr Öğr. Üyesi, Zeynep Kamil Kadın ve Çocuk Hastalıkları Eğitim Araştırma Hastanesi Genel Cerrahi Nişantaşı Üniversitesi Meslek Yüksekokulu, acarrsami@yahoo.com, sami.acar@nisantasi.edu.tr

Hastalığın sıkılıkla karışabildiği hidradenitis suppuritiva ya da acne inversa varlığında dikkatli olunmalıdır. Ayırımda ilk basamak farkındalıktır. Son altı ay içerisinde vücutun beş farklı yerinde (aksilla, kasıklar, genital bölge, meme altı) ya da özgün olmayan yerlerde (perianal, abdomen, boyun) en az iki çibanla meydana gelen alevlenmeler, hidradenitis suppuritiva için uyarıcı olmalıdır (73). Bu hasta grubunda da kristalize fenol, uygun gruptarda uygulanabilmektedir (74).

Nüks üzerinde etkili olan faktörler, küçük yaş, sigara kullanımı, tedavi öncesi uzun hastalık süresi, pozitif aile öyküsü, fazla delik sayısı, uygulama sayısı ve süresinin fazla olmasıdır. Kristalize fenol uygulama sonrası nüksler genelde ilk beş yılda görülmektedir. Uzun dönemde başarı oranı yaklaşık %70 düzeyindedir. Nüks sayısının artması ile işlem zorlaşmamakta, uygulama sayısı ve süresi artmaktadır.

SONUÇ

Kristalize fenol uygulaması ucuzdur, ayaktan uygulanabilir, girişimsel değildir. Cerrahi ile benzer başarı oranlarına sahiptir. Kolayca tekrarlanabilmesi önemlidir. İş gücü kaybını en az düzeye düşüren, hastaya ve çevresine ek sorumluluk yüklemeyen etkin ve seçkin pilonidal sinüs tedavisi yöntemidir.

KAYNAKLAR

1. Khanna A, Rombeau JL. Pilonidal disease. Clin Colon Rectal Surg 2011; 24: 46.
2. Hull TL, Wu J. Pilonidal disease. Surg Clin North Am 2002; 82: 1169.
3. Søndenaa K, Andersen E, Nesvik I, et al. Patient characteristics and symptoms in chronic pilonidal sinus disease. Int J Colorectal Dis 1995; 10: 39.
4. Jones DJ. ABC of colorectal diseases. Pilonidal sinus. BMJ 1992; 305:410.
5. Akinci OF, Bozer M, Uzunköy A, et al. Incidence and aetiological factors in pilonidal sinus among Turkish soldiers. Eur J Surg 1999; 165:339.
6. Doll D, Bosche FD, Stauffer VK, et al. Strength of Occipital Hair as an Explanation for Pilonidal Sinus Disease Caused by Intruding Hair. Dis Colon Rectum 2017; 60: 979.
7. Mayo OH. Observations on injuries and diseases of the rectum, Burgess and Hill, London 1833. p.45.
8. Classic articles in colonic and rectal surgery. Louis A. Buie, M.D. 1890-1975: Jeep disease (pilonidal disease of mechanized warfare). Dis Colon Rectum 1982; 25: 384.
9. Patel MR, Bassini L, Nashad R, et al. Barber's interdigital pilonidal sinus of the hand: a foreign body hair granuloma. J Hand Surg Am 1990; 15: 652.

10. Shareef SH, Hawrami TA, Salih AM, et al. Intermammary pilonidal sinus: The first case series. *Int J Surg Case Rep* 2017; 41: 265.
11. Mohanna PN, Al-Sam SZ, Flemming AF. Subungual pilonidal sinus of the hand in a dog gromer. *Br J Plast Surg* 2001; 54: 176.
12. Ponten JB, Ponten JE, Luyer MD, et al. An umbilical surprise: a collective review on umbilical pilonidal sinus: An uncommon alternative diagnosis in common umbilical symptoms. *Hernia* 2016; 20: 497.
13. Moyer DG. Pilonidal cyst of the scalp. *Arch Dermatol* 1972; 105:578.
14. DAVAGE ON. The origin of sacrococcygeal pilonidal sinuses based on an analysis of four hundred sixty-three cases. *Am J Pathol* 1954; 30: 1191.
15. Da Silva JH. Pilonidal cyst: cause and treatment. *Dis Colon Rectum* 2000; 43: 1146.
16. Kitchen P. Pilonidal sinus-management in the primary care setting. *Aust Fam Physician* 2010; 39: 372.
17. De Bree E, Zoetmulder FA, Christodoulakis M, et al. Treatment of malignancy arising in pilonidal disease. *Ann Surg Oncol* 2001; 8: 60.
18. von Laffert M, Stadie V, Ulrich J, et al. Morphology of pilonidal sinus disease: some evidence of its being a unilocalized type of hidradenitis suppurativa. *Dermatology* 2011; 223:349.
19. Oh HB, Abdul Malik MH, Keh CH. Pilonidal Abscess Associated With Primary Actinomycosis. *Ann Coloproctol* 2015; 31: 243.
20. Doll D, Friederichs J, Boulesteix AL, et al. Surgery for asymptomatic pilonidal sinus disease. *Int J Colorectal Dis* 2008; 23: 839.
21. O'Meara SM, Cullum NA, Majid M, et al. Systematic review of antimicrobial agents used for chronic wounds. *Br J Surg* 2001; 88: 4.
22. Humphries AE, Duncan JE. Evaluation and management of pilonidal disease. *Surg Clin North Am* 2010; 90: 113.
23. Vahedian J, Nabavizadeh F, Nakhaee N, et al. Comparison between drainage and curettage in the treatment of acute pilonidal abscess. *Saudi Med J* 2005; 26: 553.
24. Matter I, Kunin J, Schein M, et al. Total excision versus non-resectional methods in the treatment of acute and chronic pilonidal disease. *Br J Surg* 1995; 82: 752.
25. Jensen SL, Harling H. Prognosis after simple incision and drainage for a first-episode acute pilonidal abscess. *Br J Surg* 1988; 75: 60.
26. Steele SR, Perry WB, Mills S, et al. Practice parameters for the management of pilonidal disease. *Dis Colon Rectum* 2013; 56: 1021.
27. Armstrong JH, Barcia PJ. Pilonidal sinus disease. The conservative approach. *Arch Surg* 1994; 129:914.
28. Petersen S, Wietelmann K, Evers T, et al. Long-term effects of postoperative razor epilation in pilonidal sinus disease. *Dis Colon Rectum* 2009; 52: 131.
29. Oncel M, Kurt N, Kement M, et al. Excision and marsupialization versus sinus excision for the treatment of limited chronic pilonidal disease: a prospective, randomized trial. *Tech Coloproctol* 2002; 6: 165.
30. Bascom J. Pilonidal disease: long-term results of follicle removal. *Dis Colon Rectum* 1983; 26: 800.
31. Alptekin H, Yilmaz H, Kayis SA, et al. Volume of the excised specimen and prediction of surgical site infection in pilonidal sinus procedures (surgical site infection after pilonidal sinus surgery). *Surg Today* 2013; 43: 1365.

32. Velotti N, Manigrasso M, Di Lauro K, et al. Minimally Invasive Pilonidal Sinus Treatment: A Narrative Review. *Open Med (Wars)* 2019; 14: 532.
33. Lund J, Tou S, Doleman B, et al. Fibrin glue for pilonidal sinus disease. *Cochrane Database Syst Rev* 2017; 1:CD011923.
34. Colov EP, Bertelsen CA. Short convalescence and minimal pain after out-patient Bascom's pit-pick operation. *Dan Med Bull* 2011; 58: A4348.
35. Burney RE. Treatment of pilonidal disease by minimal surgical excision under local anesthesia with healing by secondary intention: Results in over 500 patients. *Surgery* 2018; 164:1217.
36. Biter LU, Beck GM, Mannaerts GH, et al. The use of negative-pressure wound therapy in pilonidal sinus disease: a randomized controlled trial comparing negative-pressure wound therapy versus standard open wound care after surgical excision. *Dis Colon Rectum* 2014; 57: 1406.
37. Al-Khamis A, McCallum I, King PM, et al. Healing by primary versus secondary intention after surgical treatment for pilonidal sinus. *Cochrane Database Syst Rev* 2010; CD006213.
38. Petersen S, Koch R, Stelzner S, et al. Primary closure techniques in chronic pilonidal sinus: a survey of the results of different surgical approaches. *Dis Colon Rectum* 2002; 45: 1458.
39. Faux W, Pillai SC, Gold DM. Limberg flap for pilonidal disease: the “no-protractor” approach, 3 steps to success. *Tech Coloproctol* 2005; 9: 153.
40. Bessa SS. Comparison of short-term results between the modified Karydakis flap and the modified Limberg flap in the management of pilonidal sinus disease: a randomized controlled study. *Dis Colon Rectum* 2013; 56: 491.
41. Arslan K, Said Kokcam S, Koksal H, et al. Which flap method should be preferred for the treatment of pilonidal sinus? A prospective randomized study. *Tech Coloproctol* 2014; 18: 29.
42. Bascom J, Bascom T. Failed pilonidal surgery: new paradigm and new operation leading to cures. *Arch Surg* 2002; 137:1146.
43. Bascom J, Bascom T. Utility of the cleft lift procedure in refractory pilonidal disease. *Am J Surg* 2007; 193:606.
44. Al-Salamah SM, Hussain MI, Mirza SM. Excision with or without primary closure for pilonidal sinus disease. *J Pak Med Assoc* 2007; 57: 388.
45. Fazeli MS, Adel MG, Lebaschi AH. Comparison of outcomes in Z-plasty and delayed healing by secondary intention of the wound after excision of the sacral pilonidal sinus: results of a randomized, clinical trial. *Dis Colon Rectum* 2006; 49: 1831.
46. Karakayali F, Karagulle E, Karabulut Z, et al. Unroofing and marsupialization vs. rhomboid excision and Limberg flap in pilonidal disease: a prospective, randomized, clinical trial. *Dis Colon Rectum* 2009; 52: 496.
47. Akinci OF, Coskun A, Uzunköy A. Simple and effective surgical treatment of pilonidal sinus: asymmetric excision and primary closure using suction drain and subcuticular skin closure. *Dis Colon Rectum* 2000; 43: 701.
48. Tocchi A, Mazzoni G, Bononi M, et al. Outcome of chronic pilonidal disease treatment after ambulatory plain midline excision and primary suture. *Am J Surg* 2008; 196: 28.
49. Serour F, Somekh E, Krutman B, et al. Excision with primary closure and suction drainage for pilonidal sinus in adolescent patients. *Pediatr Surg Int* 2002; 18: 159.
50. Enriquez-Navascues JM, Emparanza JI, Alkorta M, et al. Meta-analysis of randomized controlled trials comparing different techniques with primary closure for chronic pilonidal sinus. *Tech Coloproctol* 2014; 18: 863.
51. Maurice BA, Greenwood RK. A conservative treatment of pilonidal sinüs. *Br.J.Surg* 1964; 51:510-512.

52. Stansby G, Greatorex R. Phenol treatment of pilonidal sinüs of the natal cleft. Br.J.Surg. 1989;76: 729-730.
53. Shorey BA. Pilonidal sinüs treated by phenol injection. Br.J.Surg. 1975;62: 407-408.
54. Steward TJ, Bell M. The treatment of pilonidal sinüs by phenol injection. Ulser Med. J. 1969; 38: 167-171.
55. Kelly SB, Graham WJH. Treatment of pilonidal sinüs by phenol inhesion. Ulser Med. J. 1989; 58: 56-59.
56. Schneider IH, Thaler K, Kockerling F. Treatment of pilonidal sinuses by phenol injections. Int. J. Colorectal Dis. 1994; 9: 200-202.
57. Hegge HGJ, Hoitsma HWF. Treatment of complicated or infected pilonidal sinüs disease by local application of phenol. Surgery 1987; 102: 52-54.
58. Kaymakcioglu N, Yagci G, Simsek A, et al. Treatment of pilonidal sinüs by phenol application and factors affecting the recurrence. Tech Coloproctol 2005; 9: 21-24.
59. Dogru O, Camci A, Aygen E, et al. Pilonidal sinüs treated with crystallized phenol: An eight - year experience. Dis Colon Rectum. 2004 Nov;47(11):1934-8.
60. Aygen E, Arslan K, Dogru O, et al. Crystallized phenol in nonoperative treatment of previously operated, recurrent pilonidal disease. Dis Colon Rectum. 2010 Jun;53(6): 932-5.
61. Dag A, Colak T, Turkmenoglu O, et al. Phenol procedure for pilonidal sinüs disease and risk factors treatment failure. Surgery. 2012; 151: 113-117.
62. Bayhan Z, Zeren S, Duzgun SA, et al. Crystallized phenol application and modified Limberg flap procedure in treatment of pilonidal sinüs disease: A comparative retrospective study. Asian Journal of Surgery. 2016; 39: 172-177.
63. Topuz O, Sozen S, Tukenmez M, et al. Crystallized phenol treatment of pilonidal disease improves quality of life. Indian J Surg. 2014; 76: 81-84.
64. Girgin M, Kanat BH. The results of a one-time crsytallized phenol application for pilonidal sinüs disease. Indian J Surg. 2014; 76: 17-20.
65. Calikoglu I, Gulpinar K, Oztuna D, et al. Phenol injection versus excision with open healing in pilonidal disease: A prospective randomized trial. Dis Colon Rectum. 2017; 60: 161-169.
66. Kandamany N, Mahaffey PJ. The importance of hair control and personal hygiene in preventing recurrent pilonidal sinüs disease. J. Plast. Reconstr Aesthet Surg. 2008; 61: 986-987.
67. Pronk AA, Eppink L, Smakman N, et al. The effect of hair removal after surgery for sacrococcygeal pilonidal sinüs disease: a systematic review of the literature. Tech Coloproctol. 2018; 22: 7-14.
68. Chintapatla S, Safarani N, Kumar S, et al. Sacrococcygeal pilonidal sinüs: historical review, pathological insight and surgical options. Tech Coloproctol 2003; 7: 3-8.
69. Lukish JR, Kindelan T, Marmon LM, et al. Laser epilation is a safe effective therapy for teenagers with pilonidal disease. J Pediatr Surg 2009; 44: 282—5.
70. Halleran DR, Onwuka AJ, Lawrence AE, et al. Laser Hair Depilation in the Treatment of Pilonidal Disease: A Systematic Review. Surg Infect (Larchmt). Aug/Sep 2018;19(6):566-572.
71. Conroy FJ, Kandamary N, Mahafley PJ. Laser depilation and hygiene: preventing recurrent pilonidal sinüs disease. J Plast Reconstr Aesthetic Surg 2008; 61: 1069-72.
72. Petersen S, Wietelmann K, Evers T, et al. Long-term effects of postoperative razor epilation in pilonidal sinus disease. Dis Colon Rectum. 2009 Jan;52(1):131-4.
73. Zouboulis CC, Del Marmol V, Mrowietz U, et al. Hidradenitis Suppurativa/Acne Inversa: Criteria for Diagnosis, Severity Assessment, Classification and Disease Evaluation. Dermatology. 2015;231(2):184-90.
74. Turan E, Dogru O, Kargin S, et al. Crystallized phenol for sacral hidradenitis suppurativa. J Dermatolog Treat. 2019 Aug 14;1-4.