

44. BÖLÜM

TİROİD CERRAHİSİNDE GENEL PRENSİPLER

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TARİHÇE

Milattan önce (M.Ö.) 4000 yılında Mısır Uygulıklarına ait Hiyelograf yazıtlarında gösterilen yapıya 1656 yılında Thomas Wharton tarafından “tiroid” olarak tanımlanmıştır. “Tiroid” kelimesi kalkan şekilli anlamına gelen “thyreoides” kelimesinden köken almaktadır (1). Guatr sözcüğü latince boğaz anlamına gelen “guttur” sözcüğünden köken almakla birlikte, guatr hastalığı tiroid bezinin tanımlanmasından çok daha önce Hindulara ait gözlemlerde tespit edilmiştir (2).

Tiroid bezi Rönesans döneminde İtalya’da tanımlanmış olup Leonardo da Vinci çizimlerinde tiroidin larinksin iki yanında iki ayrı bez olarak gösterildiği görülmüştür. Tiroid bezi adı ilk kez Bartholomeus Eustachius tarafından kullanılmış fakat çalışmaları geç yayınlandığı için yazılı kayıtlara ilk olarak Thomas Wharton’un Adenograpia adlı eserinde geçtiğinden (1656) tiroid kelimesini ilk kullanan Thomas Wharton kabul edilmektedir (3).

Başta yosun olmakla birlikte deniz ürünleri gibi birçok değişik madde guatr tedavisi için kul-

lanılsa da mortalite oranlarının yüksek olması nedeniyle bu maddelerin kullanılması tiroid cerrahisi öncesi dönemde tehlikeli bulunmuştur.

Tarihte tiroid bezine ilk cerrahi girişim Paulus’a göre M.S. 500’lü yıllarda gerçekleşmiştir (4). İlk tiroid ameliyatının M.S. 1000 yıllarında Bağdat’ta Ebu el-Kazım Ez-Zehravi tarafından yapıldığı bildirilmiştir (5). Öncül uygulanan tiroid girişimleri üç başlık altında toplanabilir. Bunlar;

1. Boyun diseksiyonu olmadan yapılan ponksiyonlar, iyot enjeksiyonları ve koterizasyonları,
2. Doku eksizyonu yapılmadan yapılan tiroid arter ligasyonları,
3. Tiroid kas ve fasiyaların kesilmesi ve doku çıkarılarak yapılan eksizyon ve ligasyon uygulanan cerrahi girişimler olarak sıralanabilmektedir (6).

Bu süre sonrasında 19. yy. ortalarına kadar bu şekilde uygulanan cerrahilerde mortalite ve morbidite oranlarının yüksek olması nedeniyle cerrahi pek tercih edilen yöntem olmamış; daha sonrasında antisepsi, asepsi ve hemostaz gibi

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KAYNAKLAR

1. Sadler GP, Clark OH. Thyroid and Parathyroid. Schwartz, S.I.; Shires, G.T.; Spencer, F.C. Principles of surgery, 7th Ed. NewYork: McGraw-Hill 2007; 36: p1661-87
2. Yılmaz C. Embriyoloji. Yılmaz C (ed). Tiroit, Paratiroit Hastalıkları ve Cerrahisi. 1.baskı.İstanbul: Nobel tıp kitabevi, 2005: p6-8
3. Clark T, Savı N. History, ontogeny and anatomy. Wener I (ed). The Thyoid, 8th ed. Philadelphia: Lippincott Williams & Wilkins, 2000: p1-5.
4. Ureles AL. Thyroidology- Reflections on Twentieth Century History. Falk, S. Thyroid Disease. New York: Raven Press, 1990: p1-14.
5. Ahmad, Z. Al-Zahrawi - The Father of Surgery. ANZ Journal of Surgery 2007; 77 (1): 83.
6. Casper F. A History of Thyroid surgery Ann Surg. 1932 April; 95(4): 481-92.
7. Randolph GW, Thompson GB, Branovan DI, Tuttle RM, Treatment of thyroid cancer: 2007—a basic review. Int J Radiat Oncol Biol Phys 2007; 69: 92-7.
8. George R, Murray BA, Camb MB. Notes on the Treatment of Myxoedema by Hypodermic Injections of an Extract of the Thyroid of a Sheep. British Medical Journal 1891; 796-7.
9. Welbourn RB. History of Endocrine Surgery, Schwartz, S.I.; Shires, G.T.; Spencer, F.C. Principles of surgery, 7th Ed. NewYork: McGraw-Hill, 2007: p1570-82
10. Henry JF. Surgical anatomy and embryology of the thyroid and parathyroid glands and recurrent and external laryngeal nerves. Clark OH, Duh QY (ed). Textbook of endocrine surgery, 4th ed. Philadelphia: W.B. Saunders, 1997: p8-14.
11. Ozbas S. Comparison of the complications of subtotal, near total and total thyroidectomy in the surgical management of multinodular goitre. Endocr J 2005; 52(2): 199-205.
12. Kahky MP. Complications of Surgery of the Thyroid and Parathyroid Glands. Surg Clin North Am 1993; 73: 307-21.
13. Bliss RD. Surgeon's Approach to the Thyoid Gland: Surgical Anatomy of the Importance of Technique. World J Surg 2000; 24: 891-7.
14. Robbins KT, Medina JE, Wolfe GT, Levine PA, Sessions RB, Pruet CW. Standardizing Neck Dissection Terminology. Official Report of The Committee for Head and Neck Surgery and Oncology. Arch Otolaryngol Head Neck Surg 1991 Jun; 117(6): 601-5.
15. Artido G, et al. Revisited Anatomy of the Recurrent Laryngeal Nerves. Am J Surg 2004 ;187: 249-53.
16. Shindo ML. Considerations in Surgery of the Thyroid Gland. Otolaryngol Clin North Am 1996; 29(4): 629-35.
17. Harness JK. Total Thyroidectomy: Complications and Technique. World J Surg 1986; 10:781-8.
18. Lee MS. Relative Direction and Position of Recurrent Laryngeal Nerve for an Anatomical Configuration. Surg Radiol Anat 2009; 31: 649-55.
19. Pelizzo MR. Zuckerkandl's Tuberculum: an Arrow Pointing to the Recurrent Laryngeal Nerve (constant anatomical landmark). J Am Coll Surg 1998; 196: 796-801.
20. Tanya F, Gallagher III, D, Joshua D. Surgical anatomy of the Thyroid and Parathyroid Glands; Otolaryngology Clinics of North America APR 2010;43(2):221-7.
21. Anandi HWS. Randomized clinical trial of Ligasure versus conventional suture ligation in thyroid surgery. Head Neck Oncol 2012; 4: 22.
22. Mishra AA, Agarwal G, Mishra SK. Total thyroidectomy for benign thyroid disorders in an endemic region. World J Surg 2001; 25: 307-10.
23. Marchesi M, Biffoni M, Tartaglia M. Total versus subtotal thyroidectomy in the management of multinodular goiter. Int Surg 1998; 83: 202-4.
24. Cooper DS, Doherty GM, Haugen BR, et al. American Thyroid Association (ATA) Guidelines Taskforce on Thyroid Nodules and Differentiated Thyroid Cancer. Revised American Thyroid Association management guidelines for patients with thyroid nodules and differentiated thyroid cancer. Thyroid 2009; 19(11): 1167-214.
25. Farrag TY, Agrawal N, Sheth S, et al. Algorithm for safe and effective reoperative thyroid bed surgery for recurrent/persistent papillary thyroid carcinoma. Head Neck, 2007; 29(12):1069-74.
26. Mazzaferri EL, Doherty GM, Steward DL. The pros and cons of prophylactic central compartment lymph node dissection for papillary thyroid carcinoma. Thyroid, 2009; 19(7): 683-9.
27. Güney E, Çağlı S, Yüce I. Tiroit ve Paratiroit Cerrahi Hastalıkları, İstanbul: İyi işler Matbaası, 2008; p215-44.
28. Shaha AR. Complications of neck dissection for thyroid cancer. Ann Surg Oncol, 2008; 15(2): 397- 9.

29. Roh JL, Kim JM, Park CI. Lateral cervical lymph node metastases from papillary thyroid carcinoma: pattern of nodal metastases and optimal strategy for neck dissection. *Ann Surg Oncol* 2008; 15(4): 1177-82.
30. Grodski S, Cornford L, Sywak M, et al. Routine level VI lymph node dissection for papillary thyroid cancer: surgical technique. *ANZ J Surg* 2007; 77(4): 203-8.
31. Moo TA, Umunna B, Kato M, et al. Ipsilateral versus bilateral central neck lymph node dissection in papillary thyroid carcinoma. *Ann Surg* 2009; 250(3): 403-8.
32. Roh JL, Park JY, Rha KS. Is central neck dissection necessary for the treatment of lateral cervical nodal recurrence of papillary thyroid carcinoma? *Head Neck* 2007; 29(10): 901-906.
33. Ünalp HR, Tarcan E. Diferansiye tiroid kanserlerinde santral kompartman lenf nodu diseksiyonu. *Endokrinolojide Diyalog* 2011; 8(1): 19-24.
34. Banach R, Bartès B, Farnell K, Rimmele H, Shey J, Singer S, Verburg FA, Luster M (2013). Results of the Thyroid Cancer Alliance international patient/survivor survey: psychosocial/informational support needs, treatment side effects and international differences in care. *Hormones* 12(3): 428-438.
35. Wémeau JL, Sadoul JL, d'Herbomez M, et al. Guidelines of the French Society of Endocrinology for the management of thyroid nodules. *Ann Endocrinol (Paris)* 2011;72:251—81.
36. Cooper DS, Doherty GM, Haugen BR, et al. American Thyroid Association (ATA) Guidelines Taskforce on Thyroid Nodules and Differentiated Thyroid Cancer. Revised American Thyroid Association management guidelines for patients with thyroid nodules and differentiated thyroid cancer. *Thyroid* 2009;19:1167—214.
37. Bahn Chair RS, Burch HB, Cooper DS, et al. Hyperthyroidism and other causes of thyrotoxicosis: management guidelines of the American Thyroid Association and American Association of Clinical Endocrinologists. *Thyroid* 2011;21:593—646.
38. The American Thyroid Association, erişim: 02.2.21 <https://www.thyroid.org/thyroid-surgery/>
39. Thyroid Surgery Patient Information Johns Hopkins Medicine, erişim: 10.2.21 https://www.hopkinsmedicine.org/surgery/specialty-areas/surgical-oncology/endocrine/patient_information/thyroid_surgery.html
40. Buerba R, Roman SA, Sosa JA. Thyroidectomy and parathyroidectomy in patients with high body mass index are safe overall: analysis of 26,864 patients. *Surgery* 2011;150:950—8.
41. Materazzi G, Dionigi G, Berti P, et al. One-day thyroid surgery: retrospective analysis of safety and patient satisfaction on a consecutive series of 1,571 cases over a three-year period. *Eur Surg Res* 2007;39:182—8.
42. Testini M, Gurrado A, Avenia N, et al. Does mediastinal extension of the goiter increase morbidity of total thyroidectomy? A multicenter study of 19,662 patients. *Ann Surg Oncol* 2011;18:2251—9.
43. Vaiman M, Nagibin A, Olevson J. Complications in primary and completed thyroidectomy. *Surg Today* 2010;40:114—8.
44. Snyder SK, Hamid KS, Roberson CR, et al. Outpatient thyroidectomy is safe and reasonable: experience with more than 1,000 planned outpatient procedures. *J Am Coll Surg* 2010;210:575—82.
45. Stojadinovic A, Shaha AR, Orlikoff RF, et al. Prospective functional voice assessment in patients undergoing thyroid surgery. *Ann Surg* 2002;236:823—32.
46. SFORL Work Group, Santini J, Alfonsi JP, Bonichon F, Bozec A, Giovanni A, Goichot B, Heymann MF, Laccourreye O, Latil G, Papon JF, Sadoul JL, Strunski V, Tissier-Rible F. Patient information ahead of thyroid surgery. Guidelines of the French Society of Oto-Rhino-Laryngology and Head and Neck Surgery (SFORL). *Eur Ann Otorhinolaryngol Head Neck Dis.* 2013 Dec;130(6):363-8. doi: 10.1016/j.anorl.2013.04.001. Epub 2013 Aug 15. PMID: 23953935.