




  
**6. Ulusal CERRAHI ONKOLOJİ KONGRESİ**
  
 24 - 27 Şubat 2022 | Gloria Golf Resort - ANTALYA

**Prof. Dr. Ali Uğur Emre**
  
 Ankara Güven Hastanesi Meme ve Endokrin Cerrahisi
   
 DÜŞÜK RİSKLİ TİROİD KANSERİ YÖNETİMİ
   
 Hastaya ait özelliklerin klinik yaklaşımdaki önemi nedir?


  
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**• Düşük Risk tanımı:**

- Yaşam süresine göre
- Nüks hastalığa göre



  
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**Table 1. Defining Low Risk Based on Survival**

AJCC TNM Seventh Edition	AJCC TNM Eighth Edition
<45 years and stage I	<55 years and stage I
Any T, any N, M0	Any T, any N, M0
<45 years and stage II	<55 years and stage II
Any T, any N, M1	Any T, any N, M1
≥45 years and stage I	≥55 years and stage I
T ≤2 cm, N0, M0	T ≤2 cm, N0/NX, M0
≥45 years and stage II	≥55 years and stage II
T >2 cm but ≤4 cm, N0, M0	T ≤2 cm, N1, M0
	T >2 cm but ≤4 cm, N1, M0
	T >4 cm or any T and gross ETE invading only strap muscle, any N, M0

Data from Edge et al. (3, 5). Abbreviations: M0, no distant metastases; M1, distant metastases; N0, no evidence of regional lymph node metastasis; N1, metastases to cervical/upper mediastinal lymph nodes; NX, unknown status of regional lymph node metastases; T, tumor size.

Haymart et al. Controversies in Thyroid Cancer. Endocrine Reviews, August 2017. 38(4):351-378.


  
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**Table 2. Defining Low Risk Based on Recurrence**


**ATA Risk Stratification**

PTC (with all of the following):

- No local or distant metastases
- All macroscopic tumor has been resected
- No tumor invasion of loco-regional tissues or structures
- The tumor does not have aggressive histology (eg, tall cell, hobnail variants, columnar cell carcinoma)
- If I-131 is given, there are no RAI-avid metastatic foci outside the thyroid bed on the first post-treatment whole-body RAI scan
- No vascular invasion
- Clinical N0 or ≤five pathologic N1 micrometastases (<0.2 cm in largest dimension)


Intrathyroidal, encapsulated follicular variant of PTC  
 Intrathyroidal, well-differentiated follicular cancer with capsular invasion and no or minimal (<four foci) vascular invasion  
 Intrathyroidal, papillary microcarcinoma, unifocal, or multifocal, including BRAF V600E mutated (if known)

Data from Haugen et al. (8). Abbreviations: I-131, iodine-131; N0, no evidence of regional lymph node metastases; N1, metastases to cervical/upper mediastinal lymph nodes.


  
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**Table 4. ATA Compared to NCCN Guidelines**

	2006-2007	2009-2010	2015-Present
<b>ATA</b>			
Surgery			Can consider active surveillance for PTC with low-risk features
	Lobectomy for tumors <1 cm and age <45	Lobectomy for tumors <1 cm	Lobectomy for T1-2 tumors
	TT for tumors >1 cm	TT for tumors >1 cm	TT for T3-4 tumors
pCIN0	Routine for all PTC	May be considered for T1-2	Should be considered for T3-4 tumors
		Recommended for T3-4	
<b>NCCN</b>			
Surgery	Lobectomy PTC	Lobectomy PTC	Lobectomy PTC
	Lobectomy (or TT) age 15-45 or tumor >1 cm and <4 cm	Lobectomy (or TT) age 15-45 or tumor >1 cm and <4 cm	Lobectomy (or TT) tumor <4 cm
	TT age <15 or >45 or tumor >4 cm	TT age <15 or >45 or tumor >4 cm	TT for tumor >4 cm
pCIN0	No recommendation	Consider for age <15 or >45 or tumor >4 cm	Consider for tumor >4 cm


  
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**Long-Term Impact of Initial Surgical and Medical Therapy on Papillary and Follicular Thyroid Cancer**  
 Ernest L. Mazzaferri, MD, FACP, Stacy M. Jiang, PhD, Columbia, MO

- Tüm DTK için tek tedavi yöntemi (one size fits all)
- Total tiroidektomi + yüksek doz RAI + levotiroksin supresyon tedavisi
- Halen yüksek riskli DTK için tercih

**CONCLUSION:** Over the long term, for tumors ≥1.5 cm that are not initially metastatic to distant sites, near-total thyroidectomy followed by <sup>131</sup>I plus thyroid hormone therapy confers a distinct outcome advantage. This therapy reduces tumor recurrence and mortality sufficiently to offset the augmented risks incurred by delayed therapy, age ≥40 at the time of diagnosis, and tumors that are much larger than 1.5 cm, multicentric, locally invasive, or regionally metastatic.

Mazzaferri EL & Jiang SM 1994 Long-term impact of initial surgical and medical therapy on papillary and follicular thyroid cancer. American Journal of Medicine 97:418-428.



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Extent of Surgery for Papillary Thyroid Cancer is Not Associated with Survival: An Analysis of 61,775 Patients

Mohamed Abdelgadir Adam, MD, John Pura, MPH, Lin Gu, MS, Michael A. Dixon, PhD, Douglas S. Tyler, MD, Shelby D. Reed, PhD, Saraana A. Roman, MD, and John A. Sosa, MD, MA

Ann Surg. 2014 October; 260(4): 601-607. doi:10.1097/SLA.0000000000000925.

**Conclusions**—Current guidelines suggest total thyroidectomy for PTC tumors >1 cm. However, we did not observe a survival advantage associated with total thyroidectomy compared to lobectomy. These findings call into question whether tumor size should be an absolute indication for total thyroidectomy.

- 2014, Adam ve ark
- 61775 hasta 1998 – 2006 NCDB
- PTK 1.0 – 4.0 cm 82 ay takip
- TT/ Lobektomi genel sağkalm farkı yok
- NCDB 2003 ten sonra komorbiditeler ve 2004 ten sonra ETE ve multifokalite verilerini kaydetmeye başlamıştır
- Charlson Komorbidite indeksi >2 genel sağkalmıla ilişkili
- Bilimoriyanın çalışmasında dikkate alınmıyor

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Detection and Management of Hypothyroidism Following Thyroid Lobectomy: Evaluation of a Clinical Algorithm

Amrita Johar, MD, Oh L. Gohh, PhD<sup>1</sup>, Blair Walker, MD, FRCP<sup>2</sup>, Leanne Wood, MD<sup>3</sup>, Hannah Piper, MD, FRCA<sup>4</sup>, Graeme Wilkie, MD, FRCP<sup>5</sup>, Christopher Bellah, MD, FRCA<sup>6</sup>, Steven J. M. Jones, PhD<sup>7</sup>, and Sara M. Wiseman, MD, FRCA<sup>8</sup>

**Conclusions.** The incidence of hypothyroidism following TL is low, and a significant proportion of individuals who become biochemically hypothyroid will demonstrate only a transient elevation in their TSH levels. As well, individuals with LL or GC formation, within their resected thyroid lobe may be at increased risk for post-TL hypothyroidism.

- Hemitiroidektomi sonrası PO TSH hastaların 2/3 ünde normal sınırdadır
- Levotiroksin replasmanına gerek kalmayabilir

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Does Postoperative Thyrotropin Suppression Therapy Truly Decrease Recurrence in Papillary Thyroid Carcinoma? A Randomized Controlled Trial

Naeh Saghai<sup>1</sup> and Yoshitake Fujimoto<sup>2</sup>

The Journal of Clinical Endocrinology & Metabolism, Volume 95, Issue 10, 1 October 2010, Pages 4576-4583, https://doi.org/10.1210/jc.2010-0161

Published: 01 October 2010 Article History

**Results:** Eligible participants were recruited from 1996–2005, with 218 patients assigned to group A and 215 patients to group B. Analysis was performed on an intention-to-treat basis. DFS did not differ significantly between groups. The 95% confidence interval of the hazard ratio for recurrence was 0.85–1.27 according to Cox proportional hazard modeling, within the margin of 2.12 required to declare 10% noninferiority.

**Conclusions:** DFS for patients without TSH suppression was not inferior by more than 10% to DFS for patients with TSH suppression. Thyroid-conserving surgery without TSH suppression should be considered for patients with low-risk PTC to avoid potential adverse effects of TSH suppression.

- Düşük risk DTK TSH supresyonu şart değil

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2015 American Thyroid Association Management Guidelines for Adult Patients with Thyroid Nodules and Differentiated Thyroid Cancer

The American Thyroid Association Guidelines Task Force on Thyroid Nodules and Differentiated Thyroid Cancer

Raye R. Haugen<sup>1</sup>, Erik K. Alexander<sup>2</sup>, Keith C. Brix<sup>3</sup>, Gerard M. Dornay<sup>4</sup>, Susan J. Mandel<sup>5</sup>, Paul C. Heelan<sup>6</sup>, Sara Hauck<sup>7</sup>, George W. Hargrett-Keane<sup>8</sup>, Anne M. Sosa<sup>9</sup>, Harsh Srivastava<sup>10</sup>, Kathryn G. Sorvall<sup>11</sup>, Steven I. Sherman<sup>12</sup>, John Ann-Dee<sup>13</sup>, David L. Shaw<sup>14</sup>, and Robert Ito<sup>15</sup>, and Leonard Wartofsky<sup>16</sup>

- BRAFV600E mutasyonu multifokalite, minimal ekstratiroidal uzanım ve lenf nodu metastazı ile ilişkili
  - Xing 2007, Tallini et al.2015) nonetheless, the presence of BRAFV600E mutation
- Düşük riskli hastalarda hemitiroidektomi için kontrendikasyon değil
  - (Haugen et al. 2016).

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Early Diagnosis of Low-Risk Papillary Thyroid Cancer Results Rather in Overtreatment Than a Better Survival

Johanna Kringswies<sup>1</sup>, Aleksandra Kulakova<sup>2</sup>, Margareta Ockro-Wegscheitowa<sup>3</sup>, Agnieszka Kozłowska-Giżewska<sup>4</sup>, Katarzyna Dziuba-Kulakowska<sup>5</sup>, Margareta Herzig-Gal<sup>6</sup>, Barbara Jarosz<sup>7</sup> and Doris Handwerker-Janusz<sup>8</sup>

**CONCLUSIONS**

To sum up, overdiagnosis of indolent low-risk PTCs is a global phenomenon leading to overtreatment in many cases without any beneficial effect on survival and patients' well-being. Numerous clinical trials are needed to provide the data, fulfilling evidence-based medicine criteria necessary to change our routine clinical management in PTMC patients. We may expect substantial changes in the near future. The question is whether we, both patients and physicians, are ready for it!

- DTK da aktif takip

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Active Surveillance in Thyroid Cancer

Kringswies et al.

**TABLE 1 |** Summary of the results of studies on active surveillance presented in this review.

Study data	Size of thyroid nodules included	Number of patients subjected to AS	Disease progression criteria	Mean follow-up	Percentage of patients with tumor progression	Percentage of patients with LN metastases
Retrospective studies						
Ho (Lipari) (13)	PTMC	162	Nodule increase ≥2 mm	47 months (15-113)	10.2%	1.2%
Ho (Lipari) (7)	PTMC	340	Nodule increase by ≥3 mm; development of LN metastases	74 months (18-167)	6.4%*	1.4%*
Ho (Lipari) (18)	PTMC	1,235	Nodule increase up to 12 mm or more; development of LN metastases	60 months (18-228)	15.9%*	2.4%*
Prospective studies						
Saghai (Lipari) (2)	PTMC	230	Nodule increase ≥3 mm; invasion of local structures; development of LN or distant metastases	5 years (1-17)	7%	1%
Turtli (USA) (4)	PTC ≤ 15 mm	291	Nodule increase ≥3 mm; substernal extension; invasion of local structures; development of nodal or distant metastases	25 months (8-198)	3.8%	0%
Sakai (Japan) (1)	PTC T1aN0M0	61	Nodule increase ≥3 mm; development of nodal or distant metastases	7.4 years (0.5-25)	7%	3%
Milano (Italy) (1)	Etioprednisolone V suspensio for PTC or vP/PTC nodules <13 mm	93	Nodule increase by ≥3 mm; development of LN metastases	19 months (8-54)	2%	1%

PTC, papillary thyroid carcinoma; PTMC, papillary thyroid microcarcinoma; LN, lymph nodes; AS, active surveillance; \*5-year follow-up; \*\*10-year follow-up.

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Yayınlar, Eylül 2022  
 2022 Eylül Sayısı 194  
 DOI: 10.15899/2022194

THYROID CANCER AND NODULES

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**A Clinical Framework to Facilitate Risk Stratification When Considering an Active Surveillance Alternative to Immediate Biopsy and Surgery in Papillary Microcarcinoma**

Julia P. Shin<sup>1</sup>, Yasuhito In<sup>2</sup>, Akira Miyajima<sup>3,4</sup> and H. Michael Tubb<sup>5</sup>

- Aktif takip kararında üç ana bölüm değerlendirilmeli
- Tümör/boyun USG özellikleri
- Hastaya ait özellikler
- Tıbbi ekip özellikleri

TABLE 1. A RISK-STRATIFIED APPROACH TO DECISION MAKING IN PROBABLE OR PROVEN PAPILLARY MICROCARCINOMA

Candidate for observation	Tumour/US characteristics	Patient characteristics	Medical team characteristics
<b>Ideal</b>	<ul style="list-style-type: none"> <li>• Solitary thyroid nodule</li> <li>• Well-defined margins</li> <li>• Surrounded by ≥2 mm normal thyroid parenchyma</li> <li>• No evidence of extrathyroidal extension</li> <li>• Previous US documenting stability</li> <li>• cNO</li> <li>• &lt;300</li> </ul>	<ul style="list-style-type: none"> <li>• Older patients (&gt;60 years)</li> <li>• Willing to accept an active surveillance approach</li> <li>• Understands that a surgical intervention may be necessary in the future</li> <li>• Expected to be compliant with follow-up plans</li> <li>• Supportive significant others (including other members of their healthcare team)</li> <li>• Life-threatening comorbidities</li> </ul>	<ul style="list-style-type: none"> <li>• Experienced multidisciplinary management team</li> <li>• High-quality neck ultrasonography</li> <li>• Prospective data collection</li> <li>• Tracking/reminder program to ensure proper follow-up</li> </ul>
<b>Appropriate</b>	<ul style="list-style-type: none"> <li>• Multifocal papillary microcarcinomas</li> <li>• Subcapsular locations not adjacent to RLN without evidence of extrathyroidal extension</li> <li>• Ill-defined margins</li> <li>• Background ultrasonographic findings that will make follow-up difficult (thyroiditis, nonspecific lymphadenopathy, multiple other suspicious thyroid nodules)</li> <li>• FDG-avid papillary microcarcinomas</li> </ul>	<ul style="list-style-type: none"> <li>• Middle-aged patients (18–59 years)</li> <li>• Strong family history of papillary thyroid cancer</li> <li>• Child bearing potential</li> </ul>	<ul style="list-style-type: none"> <li>• Experienced endocrinologist or thyroid surgeon</li> <li>• Neck ultrasonography routinely available</li> </ul>
<b>Inappropriate</b>	<ul style="list-style-type: none"> <li>• Evidence of aggressive cytology on FNA (rare)</li> <li>• Subcapsular locations adjacent to RLN</li> <li>• Evidence of extrathyroidal extension</li> <li>• Clinical evidence of invasion of RLN or trachea (rare)</li> <li>• N1 disease or initial evaluation or identified during follow-up</li> <li>• M1 disease (rare)</li> <li>• Documented increase in size of ≥3 mm in a confirmed papillary thyroid cancer tumor</li> </ul>	<ul style="list-style-type: none"> <li>• Young patients (&lt;18 years)</li> <li>• Unlikely to be compliant with follow-up plans</li> <li>• Not willing to accept an observation approach</li> </ul>	<ul style="list-style-type: none"> <li>• Reliable neck ultrasonography not available</li> <li>• Little experience with thyroid cancer management</li> </ul>

US, ultrasound; RLN, recurrent laryngeal nerve; FDG, fluorodeoxyglucose; FNA, fine-needle aspiration.

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**Table 4. ATA**

	2015–Present
<b>ATA</b>	
Surgery	<ul style="list-style-type: none"> <li>• Can consider active surveillance for PTmC with low-risk features</li> <li>• Lobectomy for T1-2 tumors</li> </ul>
pCLND	<ul style="list-style-type: none"> <li>• TT for T3-4 tumors</li> <li>• Should be considered for T3-4 tumors</li> </ul>
<b>NCCN</b>	
Surgery	<ul style="list-style-type: none"> <li>• Lobectomy PTmC</li> <li>• Lobectomy (or TT) tumor &lt;4 cm</li> <li>• TT for tumor &gt;4 cm</li> </ul>
pCLND	<ul style="list-style-type: none"> <li>• Consider for tumor &gt;4 cm</li> </ul>

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**ORIGINAL ARTICLE**

**The Best of JCEM**

**Prophylactic Central Compartment Lymph Node Dissection in Papillary Thyroid Carcinoma: Clinical Implications Derived From the First Prospective Randomized Controlled Single Institution Study**

Ö. Yoda, C. Matsuda, Y. Yamada, K. Nakano, S. Arita, T. Furuta, A. Sekita, T. Sato, C. Nishio, T. Fujita, S. Takahashi, S. Saito, S. Nakamura, T. Ikeda, T. Inoue, and M. Akino

J Clin Endocrinol Metab. April 2021; 103(4):1216–1224

Conclusions: cNO patients with PTC treated either with TTx or TTx + pCCND showed a similar outcome. One advantage of TTx + pCCND was a reduced necessity to repeat <sup>131</sup>I treatments, but the disadvantage was a higher prevalence of permanent hypoparathyroidism. Almost 50% of patients with PTC had micrometastatic lymph nodes in the central compartment, but none of the presurgical features analyzed, including BRAF mutation, was able to predict their presence; moreover, to be aware of their presence does not seem to have any effect on the outcome. (J Clin Endocrinol Metab 100: 1216–1224, 2019)

Studies of the BRAF<sup>V600E</sup> mutation have suggested an association between presence of the mutation and the risk of nodal disease (369–371), although results across all patients with papillary thyroid carcinoma are mixed (372–375). However, the presence of a BRAF<sup>V600E</sup> mutation has a limited PPV for recurrence and therefore, BRAF<sup>V600E</sup> mutation status in the primary tumor should not impact the decision for prophylactic central neck dissection (376).

- Terapötik LND preoperatif kanıt varlığında endike
  - Düşük risk grubundan çıkar
- Profilaktik LND düşük riskli hastalarda nüks riskini azaltmıyor, morbiditede hafif artış (hipokalsemi)
  - Önerilmez
- BRAF + kararı değiştirmez

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**ESTIMATION OF THE ABILITY OF Prophylactic Central Compartment Neck Dissection to Modify Outcomes in Low-risk Differentiated Thyroid Cancer (ESTIMABL3)**

**Study Design**

Study Type: Interventional (Clinical Trial)

Estimated Enrollment: 100 participants

Allocation: Randomized

Intervention Model: Parallel Assignment

Masking: None (Open Label)

Primary Purpose: Treatment

Official Title: ESTIMATION OF THE ABILITY OF Prophylactic Central Compartment Neck Dissection to Modify Outcomes in Low-risk Differentiated Thyroid Cancer

Actual Study Start Date: August 25, 2019

Estimated Primary Completion Date: June 2020

Estimated Study Completion Date: June 2020

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**Teşekkürler**

