

# AKCİĞER KANSERİ

## 9. TNM SINIFLAMASI

Dr. Ömer Topalođlu  
Recep Tayyip Erdoğan Üniversitesi  
Tıp Fakóltesi Göğüs Cerrahisi A.D.

- Giriş
- 9. TNM Yenilikleri
- Evreler
- Özet

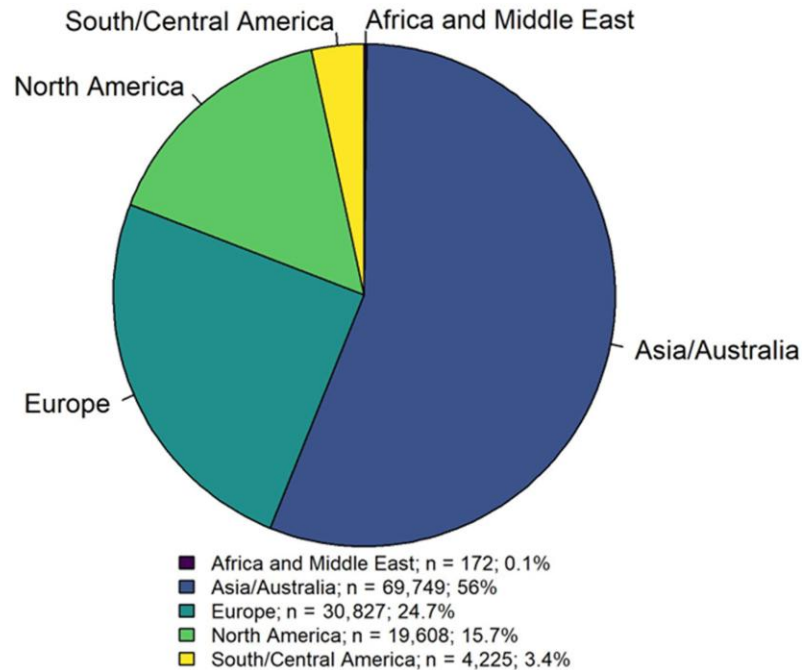
6. TNM	7. TNM 1. Faz	8. TNM 2. Faz	9. TNM 3. Faz	10. TNM 4. Faz
Clifton Mountain 2002	Peter Goldstraw 2010	Ramon Rami Porta 2017	Hisao Asamura 2024	Valerie Rusch 2031
n=5,319	n=81,495 <sup>1</sup>	n=77,154 <sup>2</sup>	n=87,043 <sup>3</sup>	
Kuzey Amerika	Avrupa Kuzey Amerika Asya Avustralya	Avrupa Kuzey Amerika Asya Avustralya Güney Amerika	Avrupa Kuzey Amerika Asya Avustralya Güney Amerika Afrika Ortadoğu	
		EDC: 3,905 (%5) Seri Veri Seti:73,251 (%95)	EDC: 21,505 (%25) Seri Veri Seti:65,834 (%75)	
			Moleküler Veri:9,931 (%13,6)	

<sup>1</sup>Goldstraw P, Crowley JJ. The International Association for the Study of Lung Cancer international staging project on lung cancer. J Thorac Oncol. 2006;1:281–286.

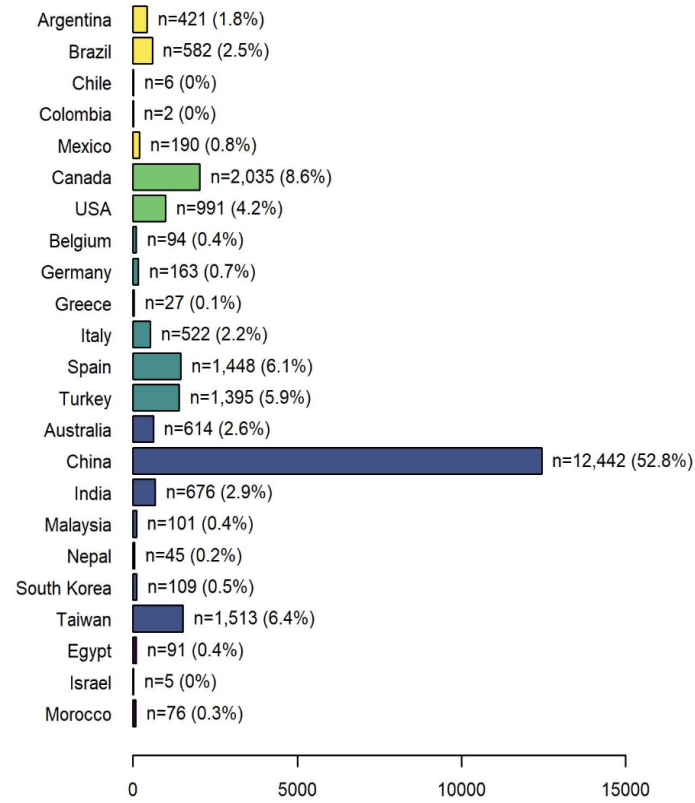
<sup>2</sup>Rami-Porta R, et al. The IASLC lung cancer staging project: the new database to inform the eighth edition of the TNM classification of lung cancer. J Thorac Oncol. 2014;9:1618–1624.

<sup>3</sup>Asamura H, et al. IASLC lung cancer staging project: the new database to inform innovations in the ninth edition of the TNM classification of lung cancer. J Thor Oncol. 2023;18:564–575.

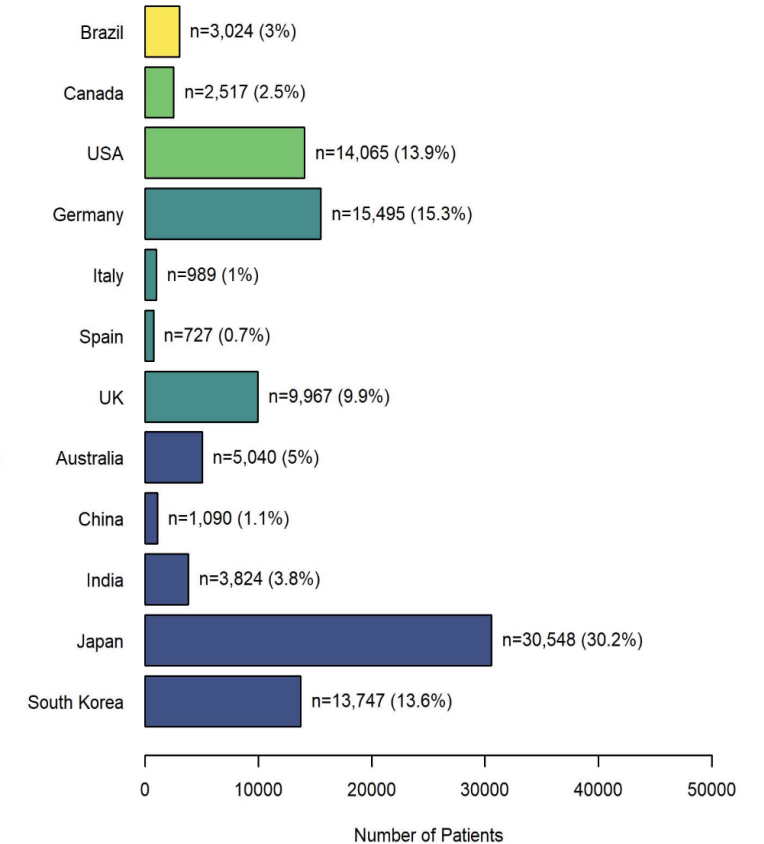
# 9.TNM IASLC Veri Tabanı

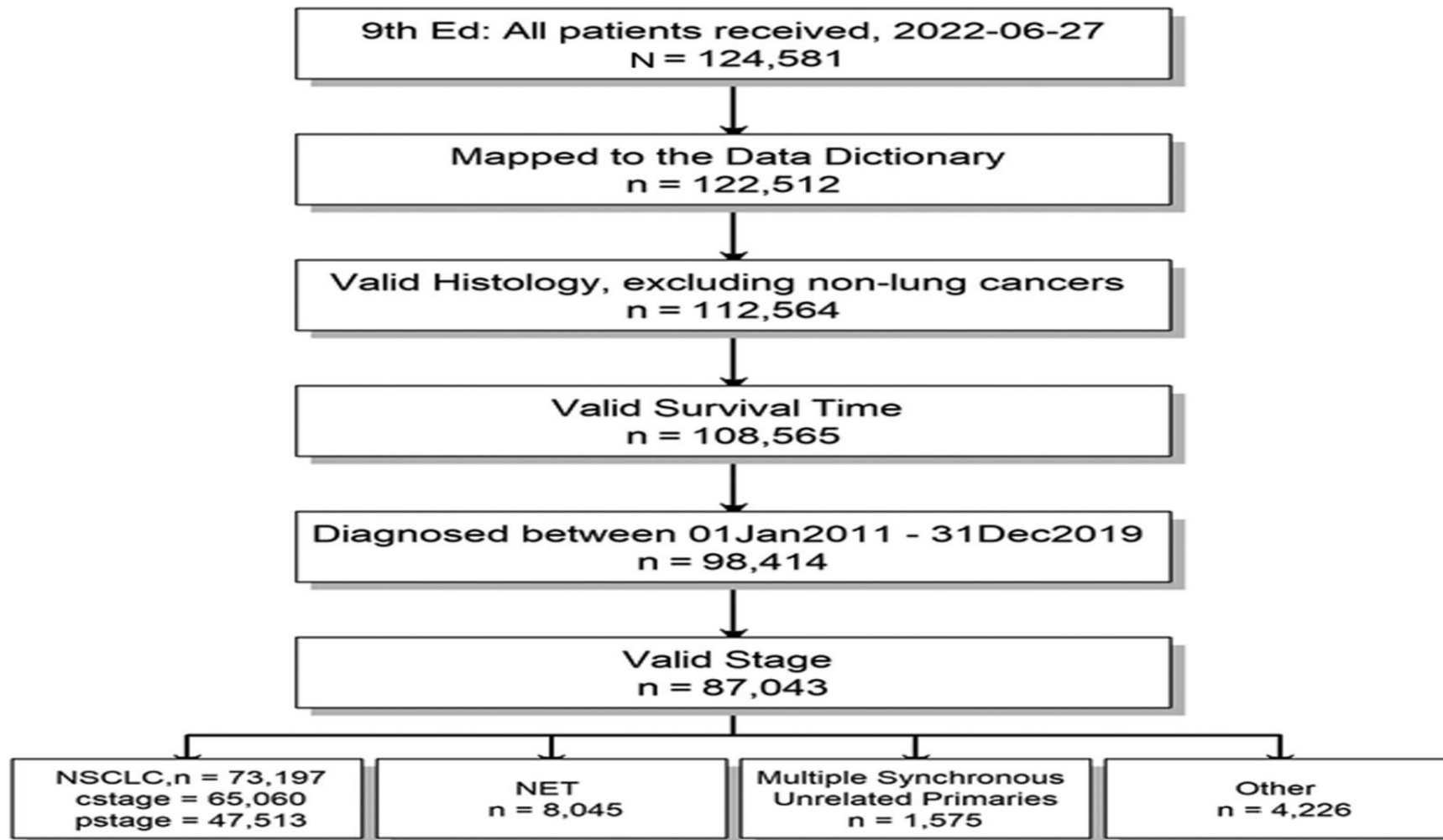


**Number of EDC Patients Submitted**  
Data as of 2022-06-27, total n=23,548



**Number of Batch Patients Submitted**  
Data as of 2022-06-27, total n=101,033





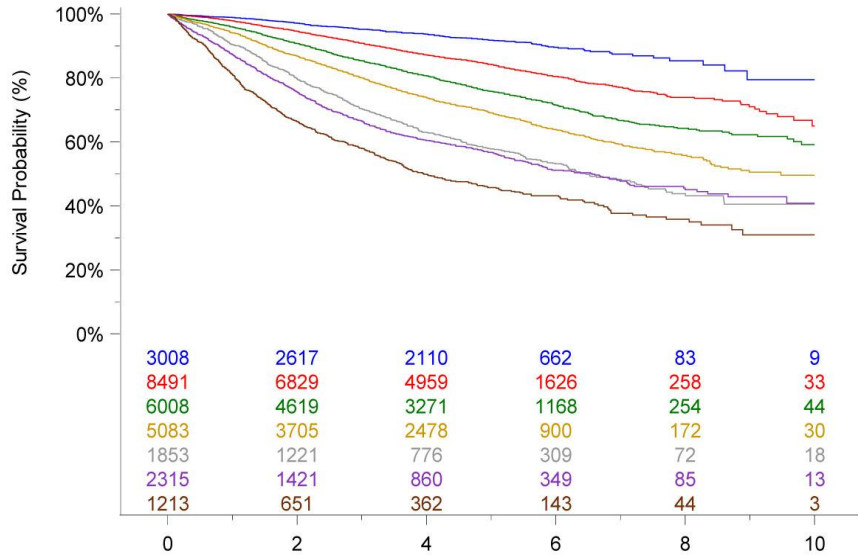
Asamura H, et al. IASLC lung cancer staging project: the new database to inform innovations in the ninth edition of the TNM classification of lung cancer. *J Thor Oncol.* 2023;18:564–575.

# 9. TNM YENİLİKLERİ

# T Tanımlayıcısı

**A**

8th Ed Staging Criteria in 9th Ed Dataset  
Clinical Pre-Treatment T-Categories  
M0, N0, Any R

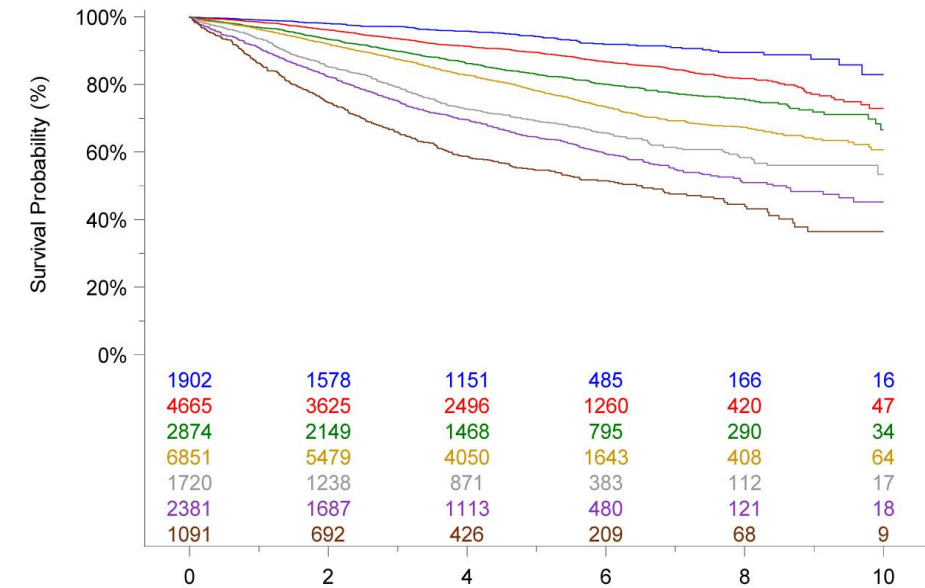


	Deaths / N	Median in Years	5-Year Estimate
T1a	244 / 3008	NR	92% (91, 93)
T1b	1239 / 8491	NR	84% (83, 85)
T1c	1328 / 6008	NR	76% (75, 77)
T2a	1426 / 5083	9 (8, .)	69% (68, 71)
T2b	696 / 1853	6 (6, 7)	58% (55, 60)
T3	888 / 2315	7 (6, 7)	57% (54, 59)
T4	570 / 1213	4 (4, 5)	46% (42, 49)

Pairwise Pval	M0, Any R, N0 Only	
	Clinical T	Pathologic T
T1a vs T1b	<0.0001	<0.0001
T1b vs T1c	<0.0001	<0.0001
T1c vs T2a	<0.0001	<0.0001
T2a vs T2b	<0.0001	<0.0001
T2b vs T3	0.0767	0.0004
T3 vs T4	<0.0001	<0.0001

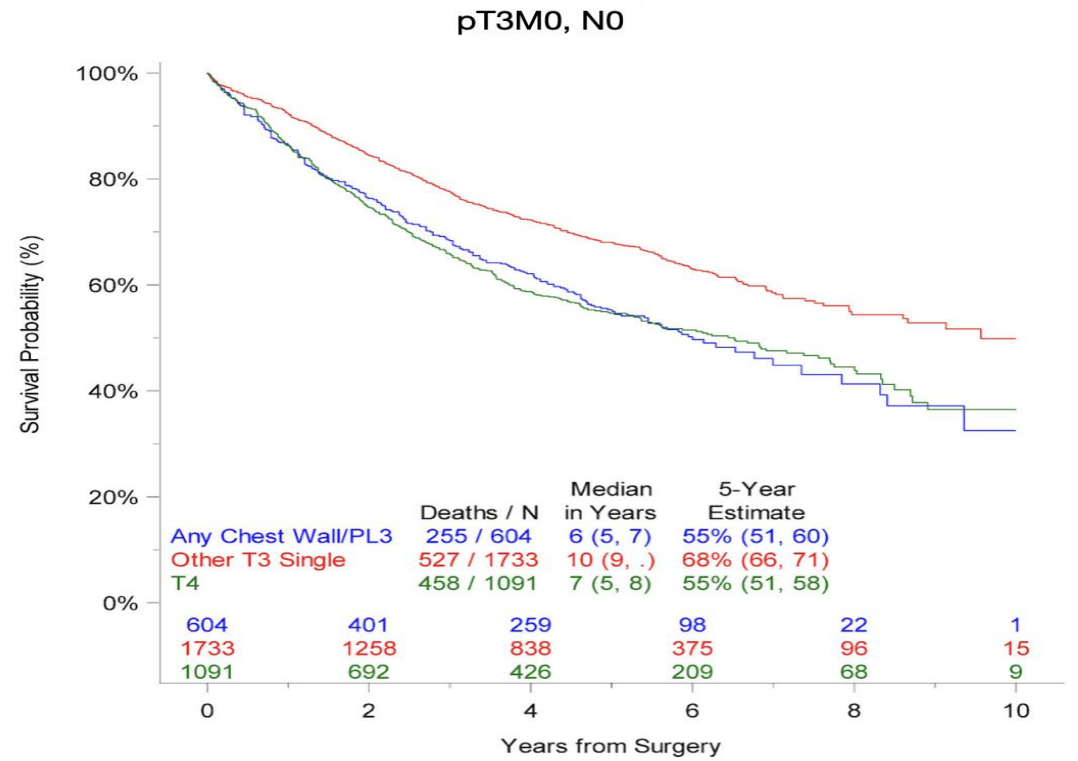
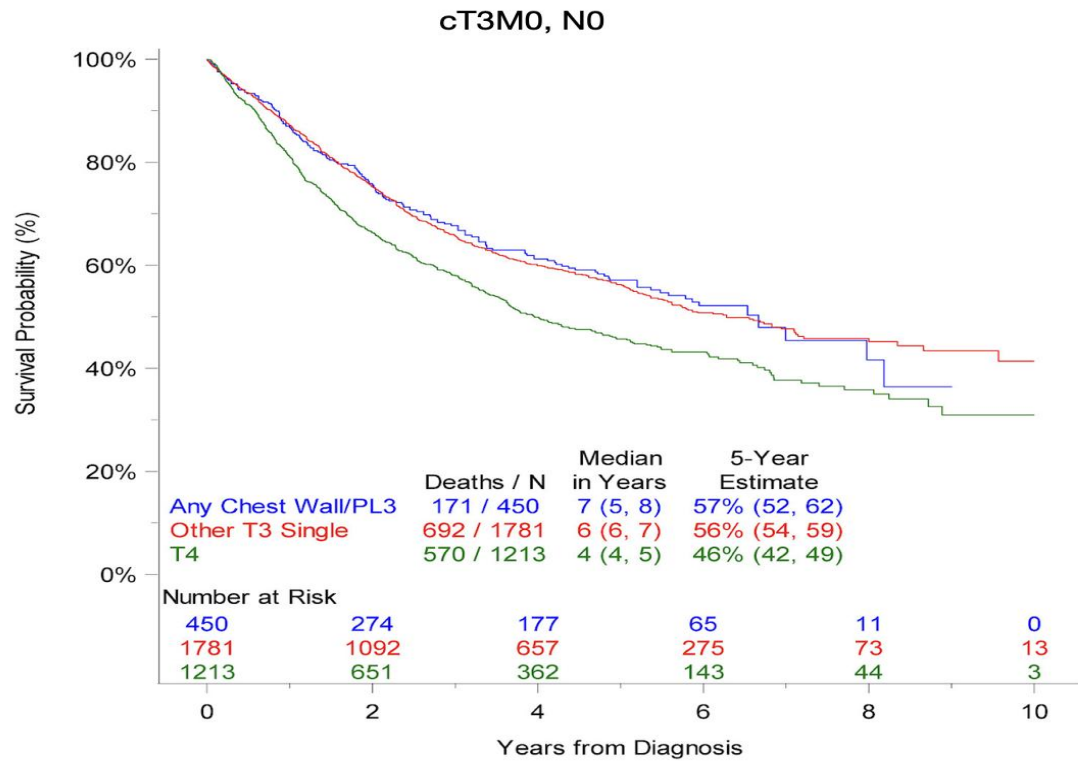
**B**

8th Ed Staging Criteria in 9th Ed Dataset  
Pathologic Post-Surgical T-Categories  
M0, N0, Any R



	Deaths / N	Median in Years	5-Year Estimate
T1a	109 / 1902	NR	94% (93, 95)
T1b	481 / 4665	NR	89% (88, 91)
T1c	444 / 2874	NR	83% (81, 85)
T2a	1469 / 6851	NR	78% (77, 79)
T2b	491 / 1720	NR	69% (67, 72)
T3	799 / 2381	8 (8, .)	64% (62, 67)
T4	458 / 1091	7 (5, 8)	55% (51, 58)

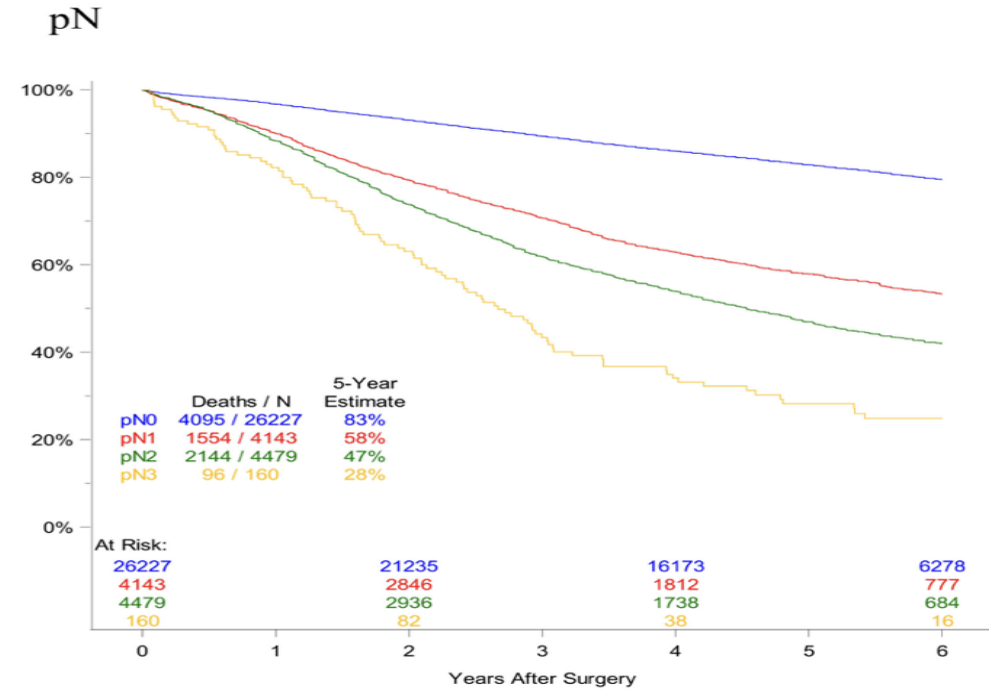
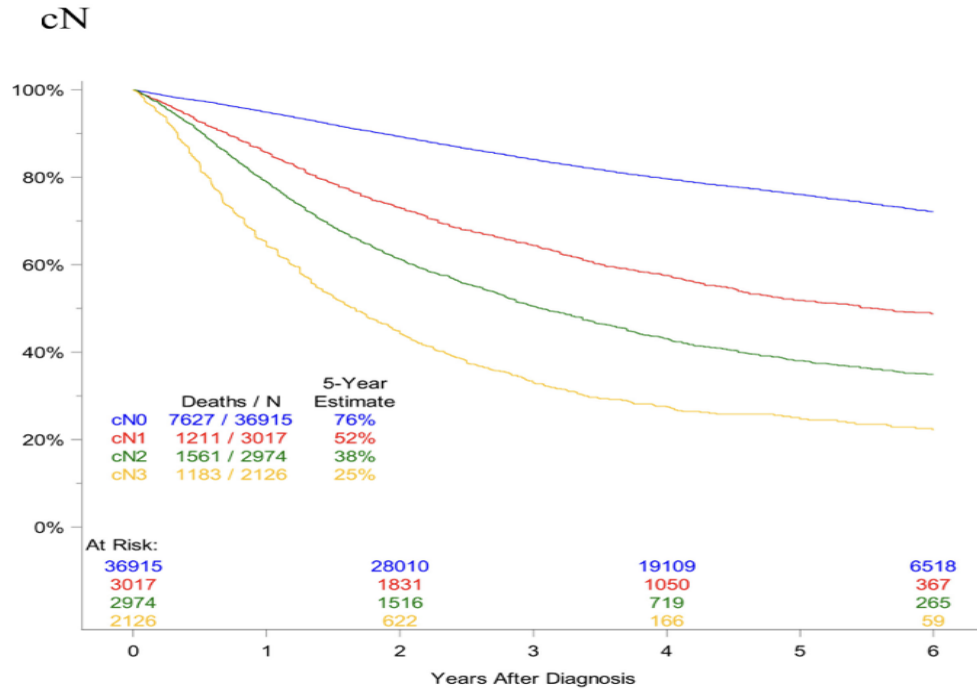
# T: pariyetal plevra/göğüs duvarı



Van Schil PE, et al. The International Association for the Study of Lung Cancer Lung Cancer Staging Project: Proposals for the revisions of the T-descriptors in the forthcoming ninth edition of the TNM classification for lung cancer. J Thorac Oncol. 2024;19:749–765.

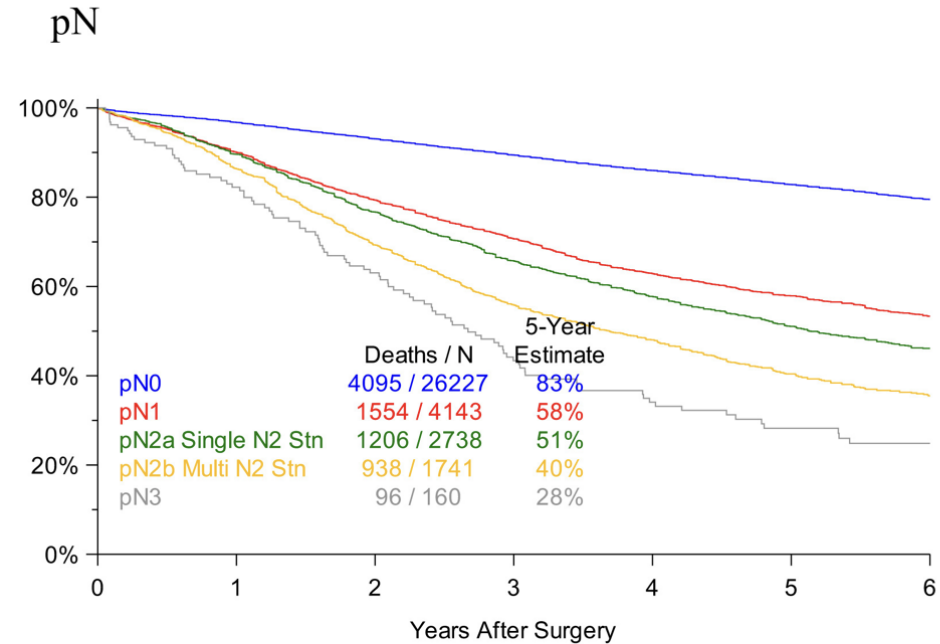
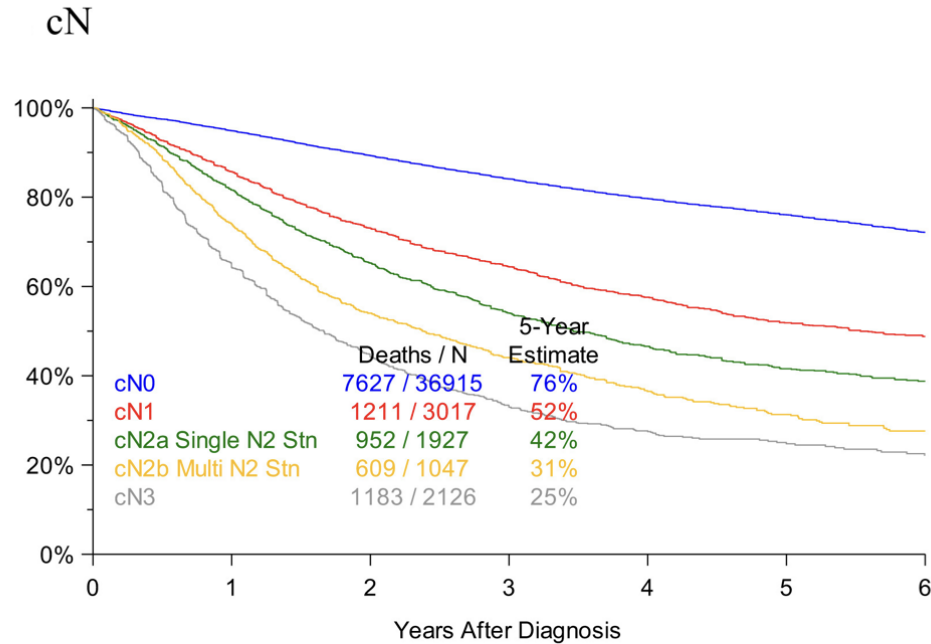


# N Tanımlayıcısı



Huang J, et al. The International Association for the Study of Lung Cancer Staging Project for Lung Cancer: Proposals for the revision of the N descriptors in the forthcoming ninth edition of the TNM classification for lung cancer. J Thorac Oncol. 2024;19:766–785.

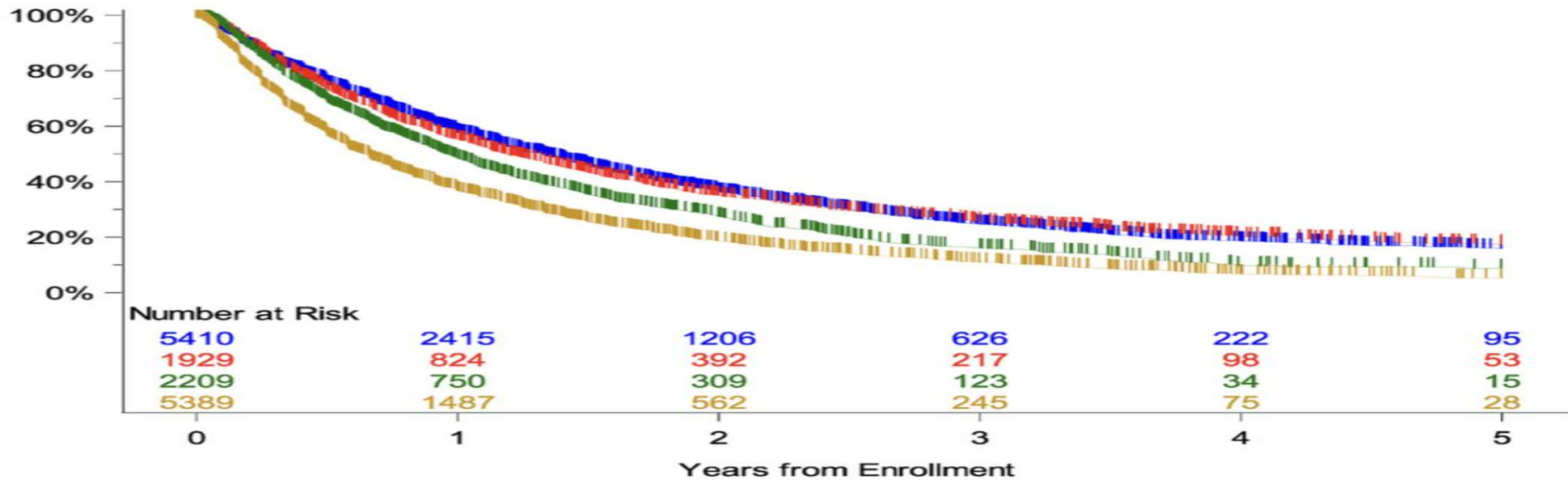
# N : N2a ve N2b alt sınıflandırması



Huang J, et al. The International Association for the Study of Lung Cancer Staging Project for Lung Cancer: Proposals for the revision of the N descriptors in the forthcoming ninth edition of the TNM classification for lung cancer. J Thorac Oncol. 2024;19:766–785.

# M Tanımlayıcısı

Overall Survival by Proposed 9th Edition M Status  
9th Edition Database



	Deaths / N	Median in Years	2-Year Estimate
M Group 1: M1a	3280 / 5410	1.3 (1.2, 1.4)	36% (35, 38)
M Group 2: One system, one lesion	1158 / 1929	1.2 (1.1, 1.3)	35% (33, 38)
M Group 3: One system, multiple lesions	1368 / 2209	1 (0.9, 1)	27% (25, 30)
M Group 4: Multiple systems	3923 / 5389	0.6 (0.6, 0.7)	19% (17, 20)

Log-rank p-value < .0001

Fong KM, Rosenthal A, Giroux DJ, et al. The International Association for the Study of Lung Cancer Staging Project for Lung Cancer: Proposals for the Revision of the M Descriptors in the Forthcoming Ninth Edition of the TNM Classification for Lung Cancer. *J Thorac Oncol.* 2024;19(5):786-802.

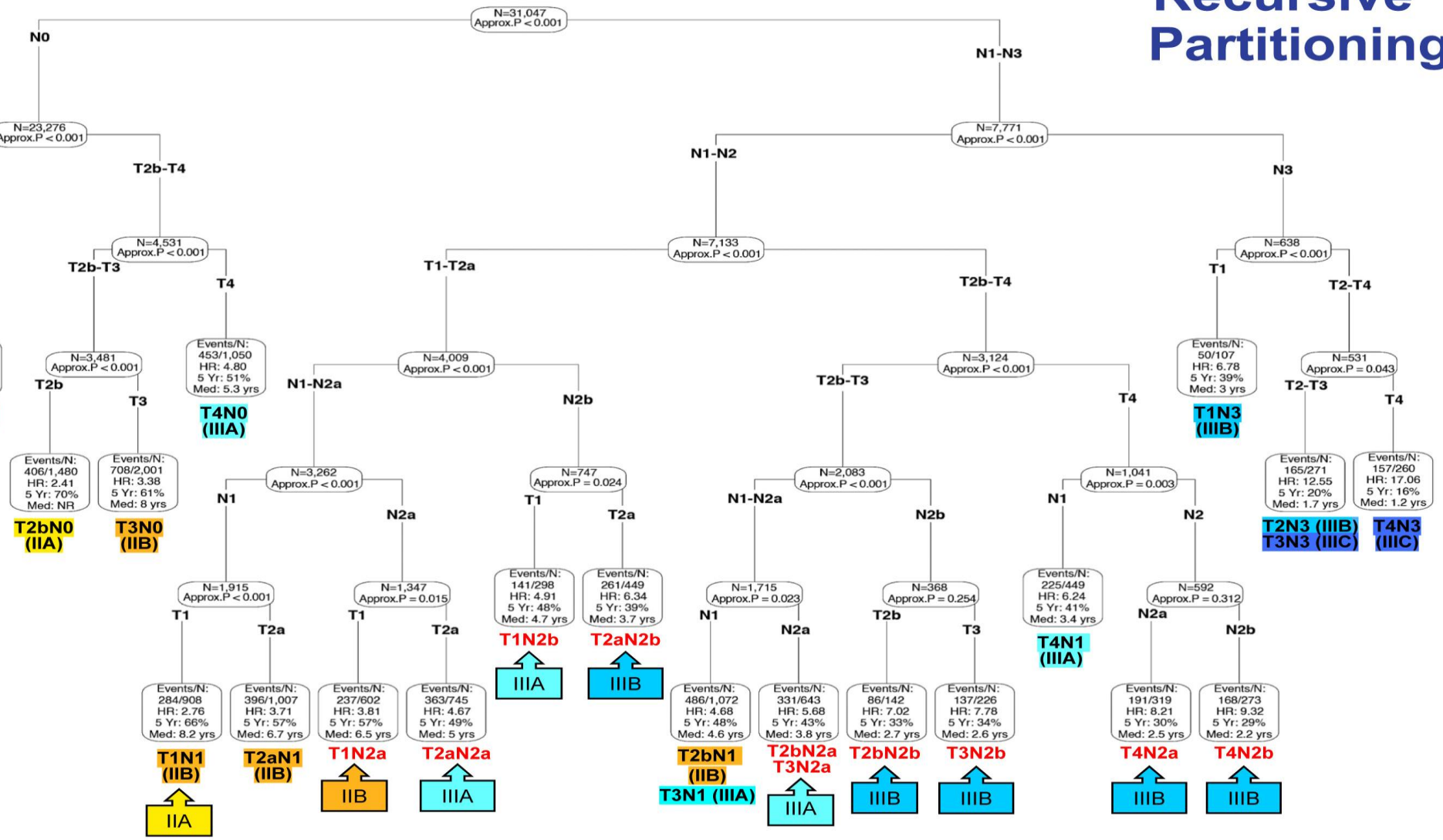
**EVRELEME**

# Recursive Partitioning

Black Text = existing category  
 Red Text = new category created by N2a and N2b split

New proposed 9<sup>th</sup> Ed stage assignment

T/M	Label	N0	N1	N2		N3
				N2a	N2b	
T1	T1a	IA1	IIA	IIB	IIIA	IIIB
	T1b	IA2	IIA	IIB	IIIA	IIIB
	T1c	IA3	IIA	IIB	IIIA	IIIB
T2	T2a Inv	IB	IIB	IIIA	IIIB	IIIC
	T2a >3-4	IB	IIB	IIIA	IIIB	IIIC
	T2b >4-5	IIA	IIB	IIIA	IIIB	IIIC
T3	T3 >5-7	IIA	IIIA	IIIB	IIIC	IIIC
	T3 Inv	IIB	IIIA	IIIB	IIIC	IIIC
T4	T4 >7	IIIA	IIIA	IIIB	IIIC	IIIC
	T4 Inv	IIIA	IIIA	IIIB	IIIC	IIIC
M1	M1a PI Dissem	IVA	IVA	IVA	IVA	IVA
	M1a Contr Nod	IVA	IVA	IVA	IVA	IVA
	M1b Single Les	IVA	IVA	IVA	IVA	IVA
	M1c Mult, 1 Sys	IVB	IVB	IVB	IVB	IVB
	M1c Mult, >1 Sys	IVB	IVB	IVB	IVB	IVB



Rami-Porta R, Nishimura KK, Giroux DJ, et al. The International Association for the Study of Lung Cancer Lung Cancer Staging Project: Proposals for revision of the TNM stage groups in the forthcoming (Ninth) edition of the TNM classification for lung cancer. J Thorac Oncol. 2024.



## 8<sup>th</sup> Ed TNM Categories

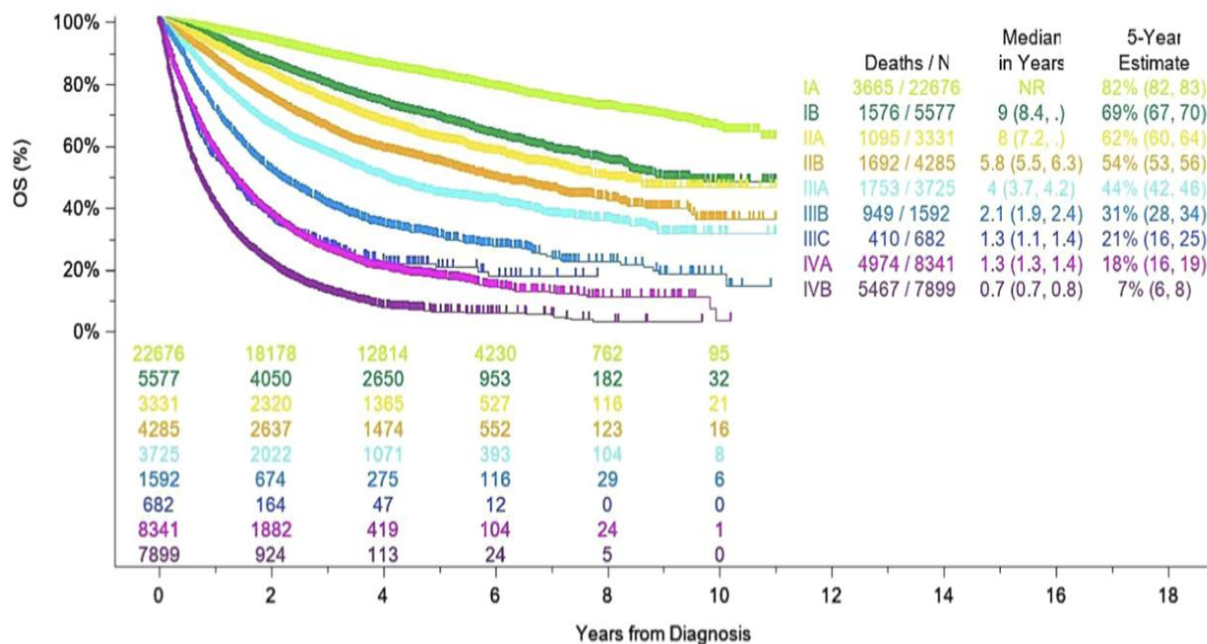
8 <sup>th</sup> Ed TNM Categories					
T/M	Label	N0	N1	N2	N3
T1	T1a	IA1	IIB	IIIA	IIIB
	T1b	IA2	IIB	IIIA	IIIB
	T1c	IA3	IIB	IIIA	IIIB
T2	T2a Inv	IB	IIB	IIIA	IIIB
	T2a >3-4	IB	IIB	IIIA	IIIB
	T2b >4-5	IIA	IIB	IIIA	IIIB
T3	T3 >5-7	IIB	IIIA	IIIB	IIIC
	T3 Inv	IIB	IIIA	IIIB	IIIC
	T3 Same Lobe Nod	IIB	IIIA	IIIB	IIIC
T4	T4 >7	IIIA	IIIA	IIIB	IIIC
	T4 Inv	IIIA	IIIA	IIIB	IIIC
	T4 Ipsi Nod	IIIA	IIIA	IIIB	IIIC
M1	M1a PI Dissem	IVA	IVA	IVA	IVA
	M1a Contr Nod	IVA	IVA	IVA	IVA
	M1b Single Les	IVA	IVA	IVA	IVA
	M1c Mult Les	IVB	IVB	IVB	IVB

## Proposed 9<sup>th</sup> Ed TNM Categories

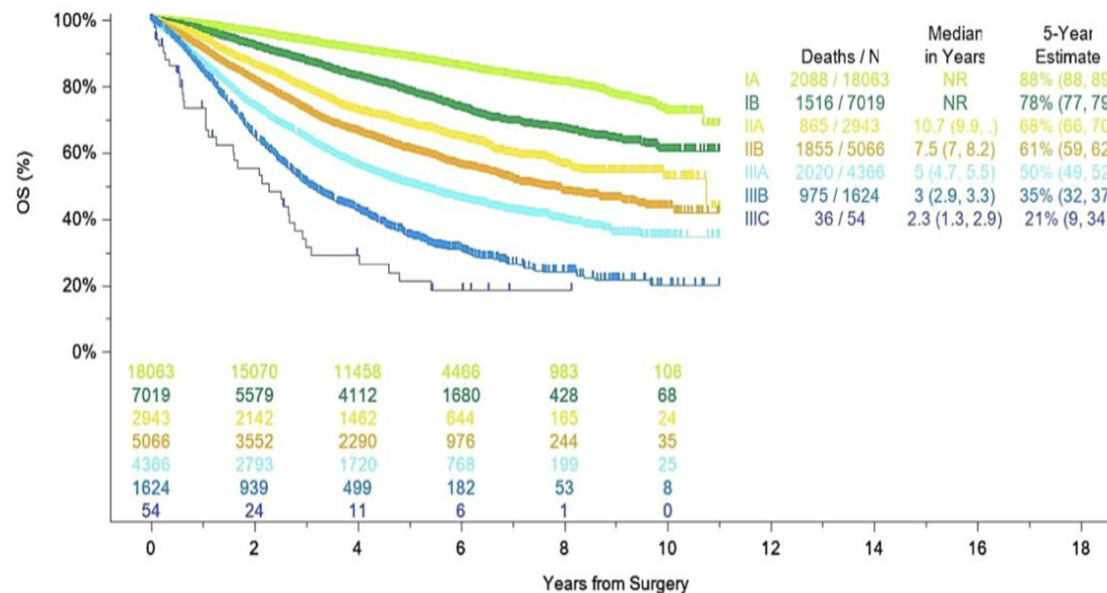
Proposed 9 <sup>th</sup> Ed TNM Categories						
T/M	Description	N0	N1	N2		N3
				N2a	N2b	
T1	T1a ≤1 cm	IA1	IIA	IIB	IIIA	IIIB
	T1b >1 to ≤2 cm	IA2	IIA	IIB	IIIA	IIIB
	T1c >2 to ≤3 cm	IA3	IIA	IIB	IIIA	IIIB
T2	T2a Visceral pleura / central invasion	IB	IIB	IIIA	IIIB	IIIB
	T2a >3 to ≤4 cm	IB	IIB	IIIA	IIIB	IIIB
	T2b >4 to ≤5 cm	IIA	IIB	IIIA	IIIB	IIIB
T3	T3 >5 to ≤7 cm	IIB	IIIA	IIIA	IIIB	IIIC
	T3 Invasion	IIB	IIIA	IIIA	IIIB	IIIC
	T3 Same lobe tumor nodule	IIB	IIIA	IIIA	IIIB	IIIC
T4	T4 >7 cm	IIIA	IIIA	IIIB	IIIB	IIIC
	T4 Invasion	IIIA	IIIA	IIIB	IIIB	IIIC
	T4 Ipsilateral tumor nodule	IIIA	IIIA	IIIB	IIIB	IIIC
M1	M1a Pleural / pericardial dissemination	IVA	IVA	IVA	IVA	IVA
	M1a Contralateral tumor nodule	IVA	IVA	IVA	IVA	IVA
	M1b Single extrathoracic lesion	IVA	IVA	IVA	IVA	IVA
	<b>M1c1</b> Multiple lesions, 1 organ system	IVB	IVB	IVB	IVB	IVB
	<b>M1c2</b> Multiple lesions, >1 organ system	IVB	IVB	IVB	IVB	IVB

Rami-Porta R, Nishimura KK, Giroux DJ, et al. The International Association for the Study of Lung Cancer Lung Cancer Staging Project: Proposals for revision of the TNM stage groups in the forthcoming (Ninth) edition of the TNM classification for lung cancer. J Thorac Oncol. 2024.

### 9. TNM Klinik Evreleme



### 9. TNM Patolojik Evreleme



Rami-Porta R, Nishimura KK, Giroux DJ, et al. The International Association for the Study of Lung Cancer Lung Cancer Staging Project: Proposals for revision of the TNM stage groups in the forthcoming (Ninth) edition of the TNM classification for lung cancer. J Thorac Oncol. 2024.

# Özet

- T Tanımlayıcısında değişiklik yok
- N2 iki alt grup
  - N2a
  - N2b
- M1c iki alt grup
  - M1c1
  - M1c2
- Tanımlayıcılardaki değişikliklerle beraber prognoza göre evre değişiklikleri oldu



İlginiz için teşekkür ederim.