

Moderne onkologisch/hämatologische Therapie und Palliativmedizin Ein Widerspruch ?

Palliativmedizin und Hospizarbeit

Bonn 26.10.2022

Y. Ko



JOHANNITER



Aus Liebe zum Leben

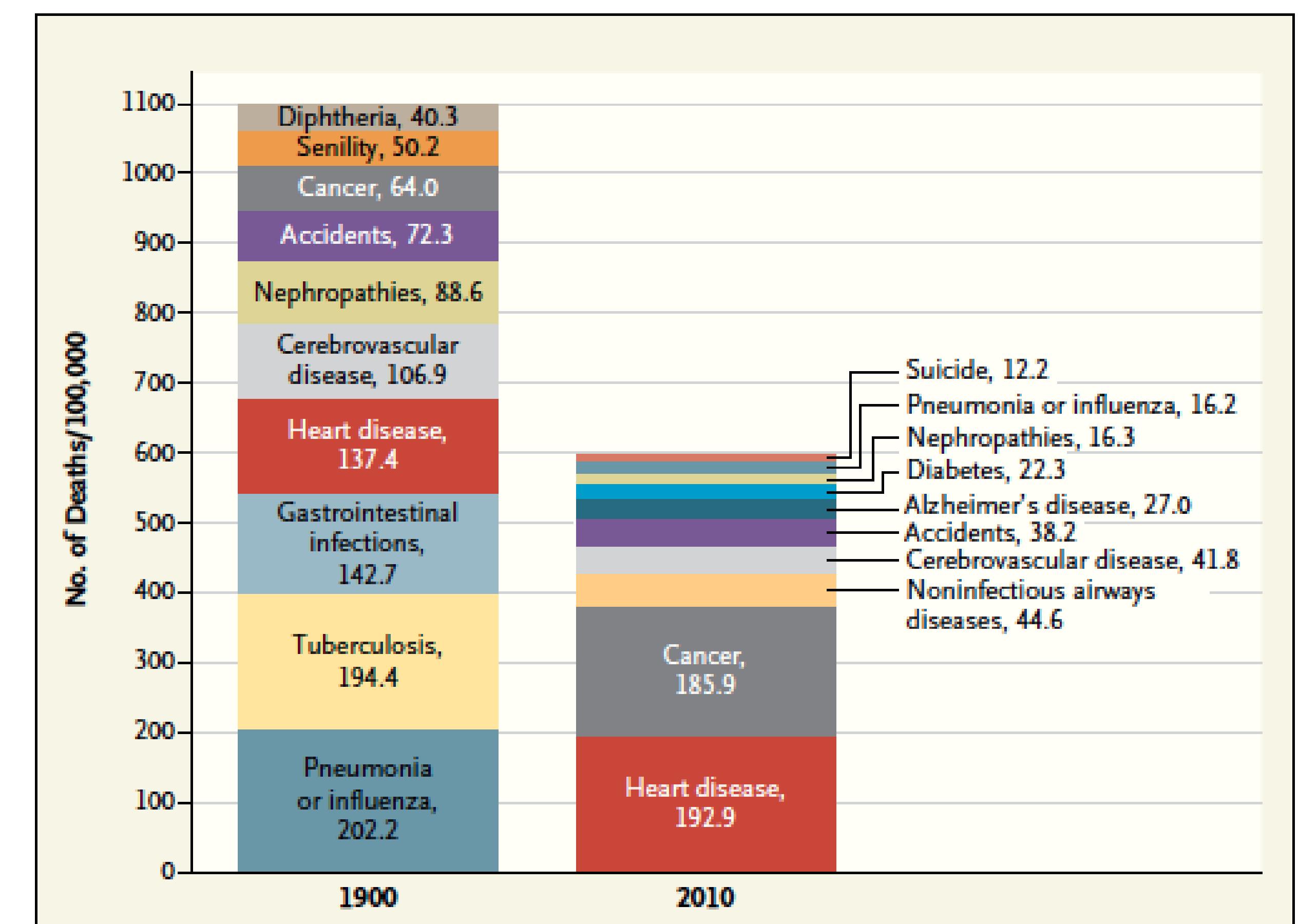


Volksgesundheit - Todesursachen

The Deaths preceding were caused by Diseases and Casualties as follows, viz.

Abscesses	.	.	1	Hernia, or Rupture	.	3
Aneurism	-	.	1	Jaundice	.	10
Apoplexy	-	.	13	Inflammation of the bowels	.	1
Burns or Scalds	-	.	6	of the stomach	.	1
Cancer	-	.	5	Killed by lightning	.	1
Casualties	-	.	15	Insanity	.	1
Childbed	-	.	14	Intemperance	.	2
Cholera Morbus	-	.	6	Locked jaw	.	2
Colic	-	.	2	Mortification	.	11
Consumption	-	.	221	Old Age	.	26
Convulsions	-	.	35	Palsy	.	12
Cramp in the stomach	-	.	2	Picurisy	.	8
Croup	-	.	1	Quinsy	.	15
Debility	-	.	28	Rheumatism	.	1
Decay	-	.	20	Rupture of blood vessels	.	1
Diarrhoea	-	.	15	Small-Pox,(at Rainsford's Island)	2	
Drinking cold water	-	.	2	Sore throat	.	1
Dropsy	-	.	21	Spasms	.	2
in the head	-	.	23	Stillborn	.	49
Drowned	-	.	13	Suicide	.	1
Dysentery	-	.	14	Sudden death	.	25
Diapcysis or Indigestion	-	.	15	Syphilis	.	12
Fever, bilious	-	.	7	Teething	.	15
pulmonic	-	.	46	Worms	.	11
inflammatory	-	.	24	Whooping Cough	.	14
putrid	-	.	6	White swelling	.	2
typhus	-	.	33	Diseases not mentioned	.	48
Flux infantile	-	.	57	Total,		942
Gout	-	.	3			
Hoemorrhage	-	.	4			

Causes of Death in 1811. Abstract of the Bill of Mortality for the Town of Boston.

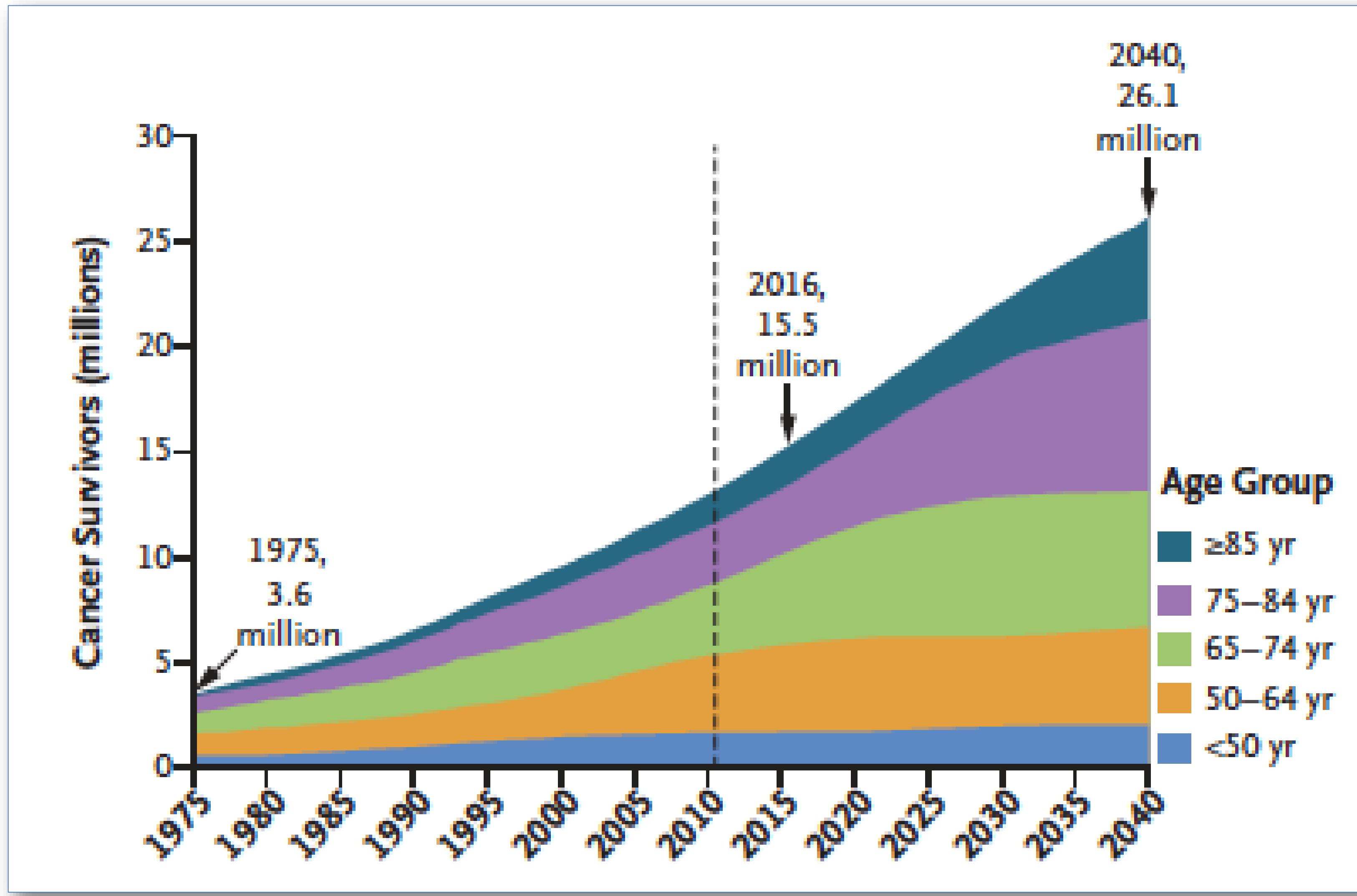


Top 10 Causes of Death: 1900 vs. 2010.

Data are from the Centers for Disease Control and Prevention.

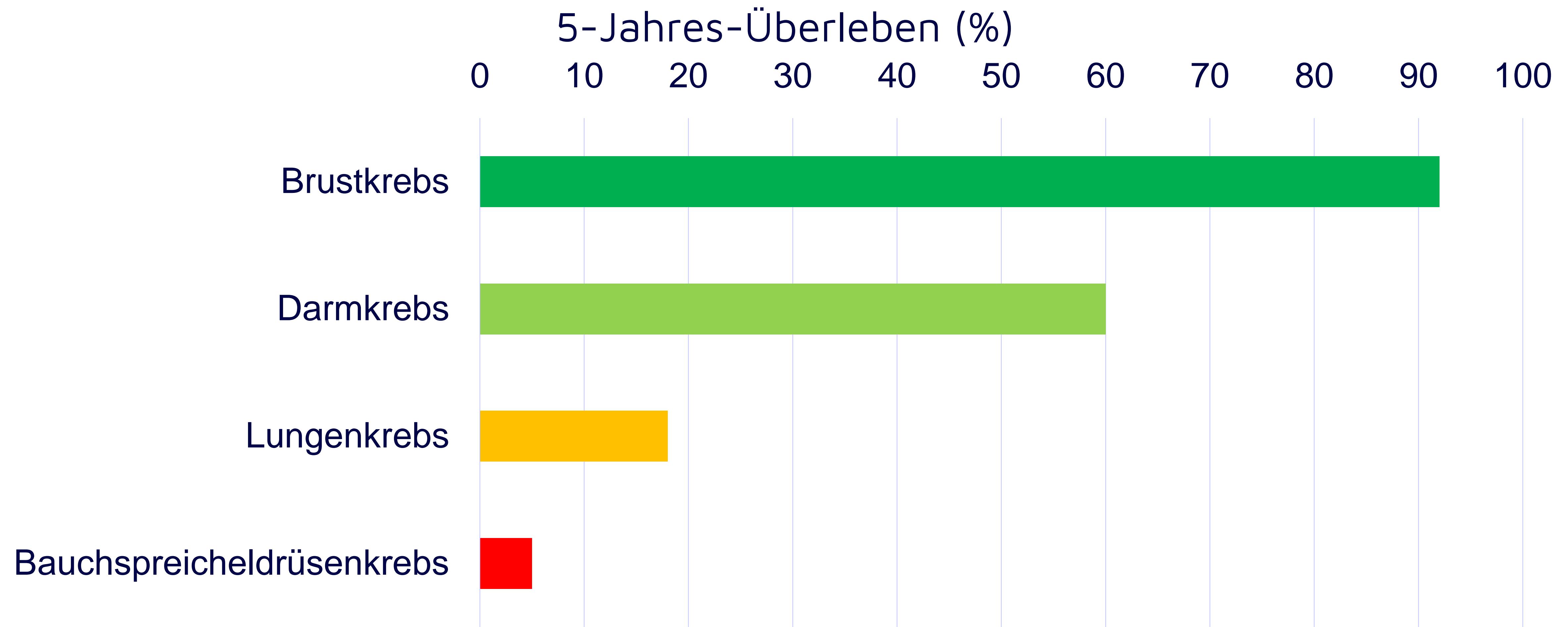


Cancer Survivors – Überlebende nach Krebs in den USA

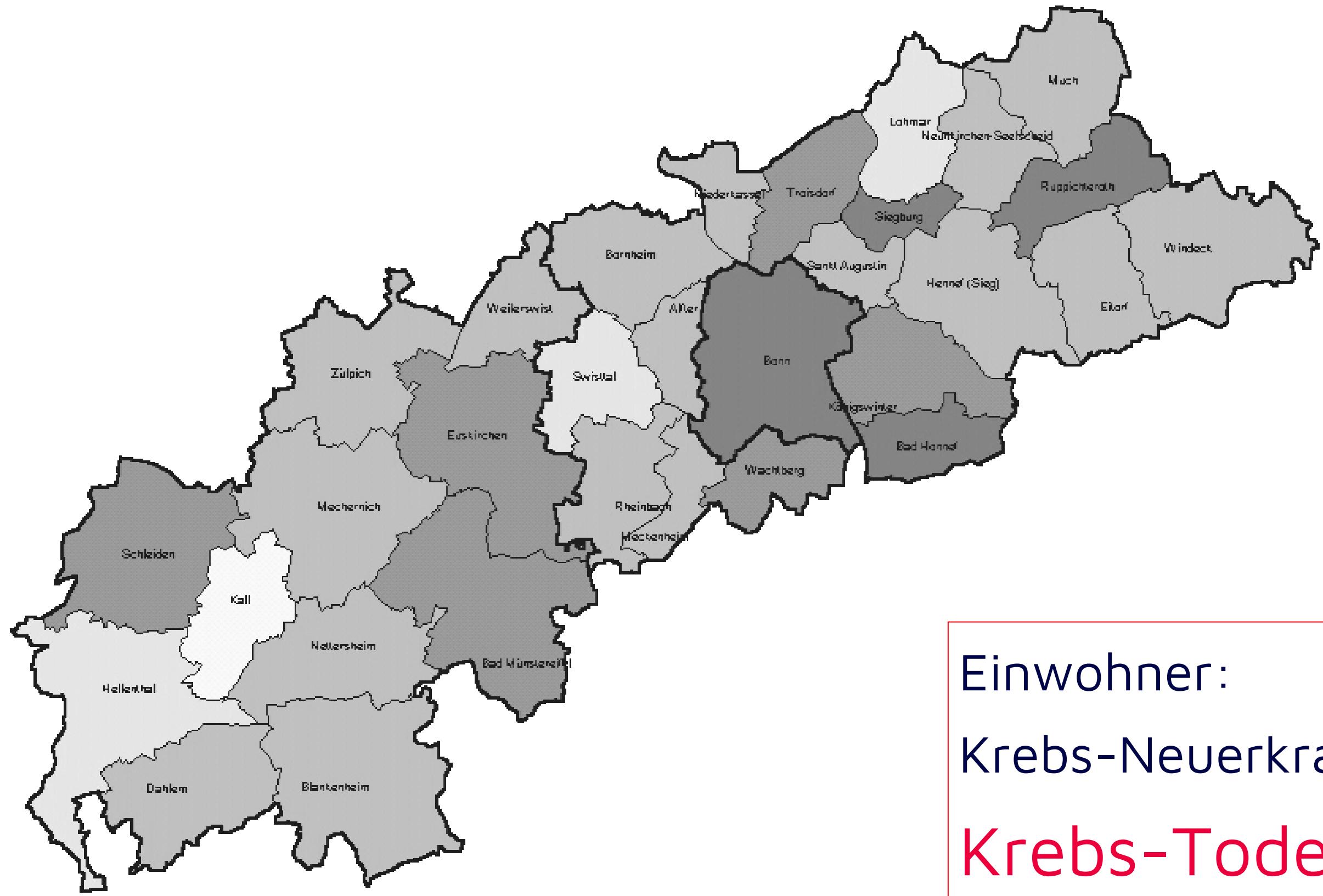


Überleben mit Krebs

Mehr Heilung



Versorgungsgebiet Bonn und Umland



aber

Einwohner:

1.122.224

Krebs-Neuerkrankungen: ~ 7000 pro Jahr

Krebs-Todesfälle: ~ 3000 pro Jahr

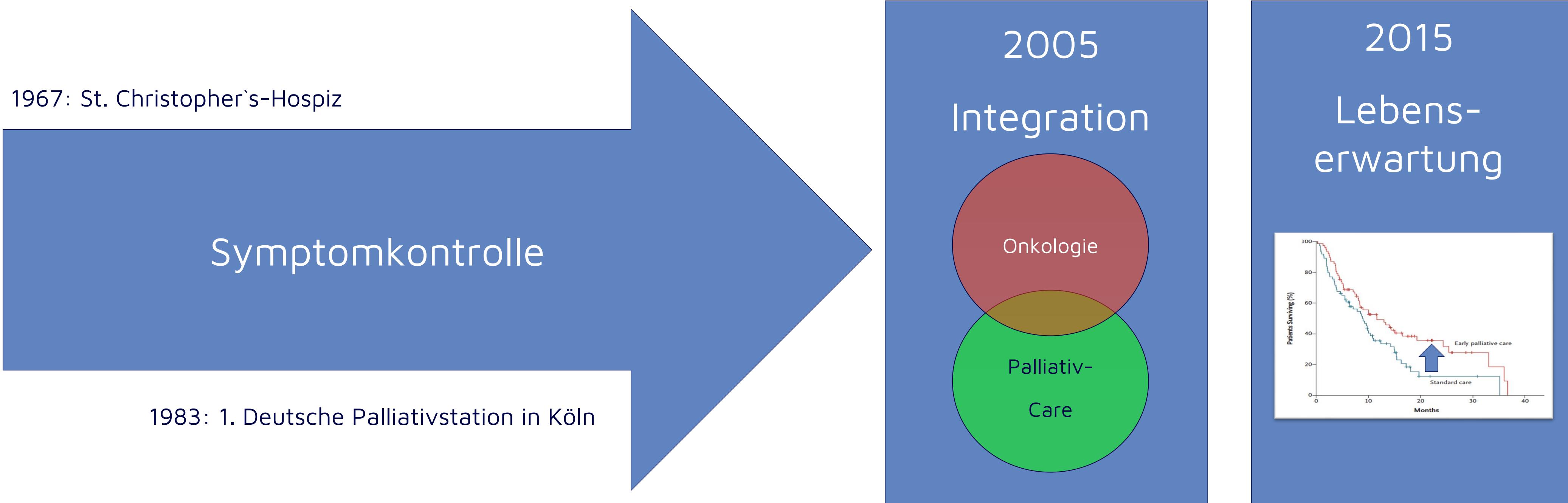




“Go around and see what is being done and then see how your own circumstances can produce another version; there is need for diversity in this field.”

Dame Cicely Saunders, Founder
St. Christopher's Hospice

1918-2005



Soll (noch) behandelt werden ?



Chemotherapie am Ende des Lebens

Chemotherapie-refraktäre Situation

Research

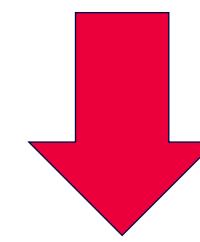
Original Investigation

Chemotherapy Use, Performance Status, and Quality of Life at the End of Life

Holly G. Prigerson, PhD; Yuhua Bao, PhD; Manish A. Shah, MD; M. Elizabeth Paulk, MD; Thomas W. LeBlanc, MD, MA; Bryan J. Schneider, MD; Melissa M. Garrido, PhD; M. Carrington Reid, MD, PhD; David A. Berlin, MD; Kerin B. Adelson, MD; Alfred I. Neugut, MD, PhD; Paul K. Maciejewski, PhD

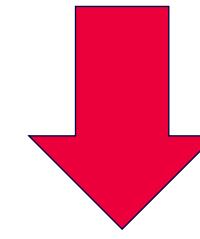
Patienten:

- Fernmetastasen ("End-Stage-Cancer")
- Refraktäre Erkrankung (≥ 1 refraktäre CTX)
- Lebenserwartung < 6 Monate

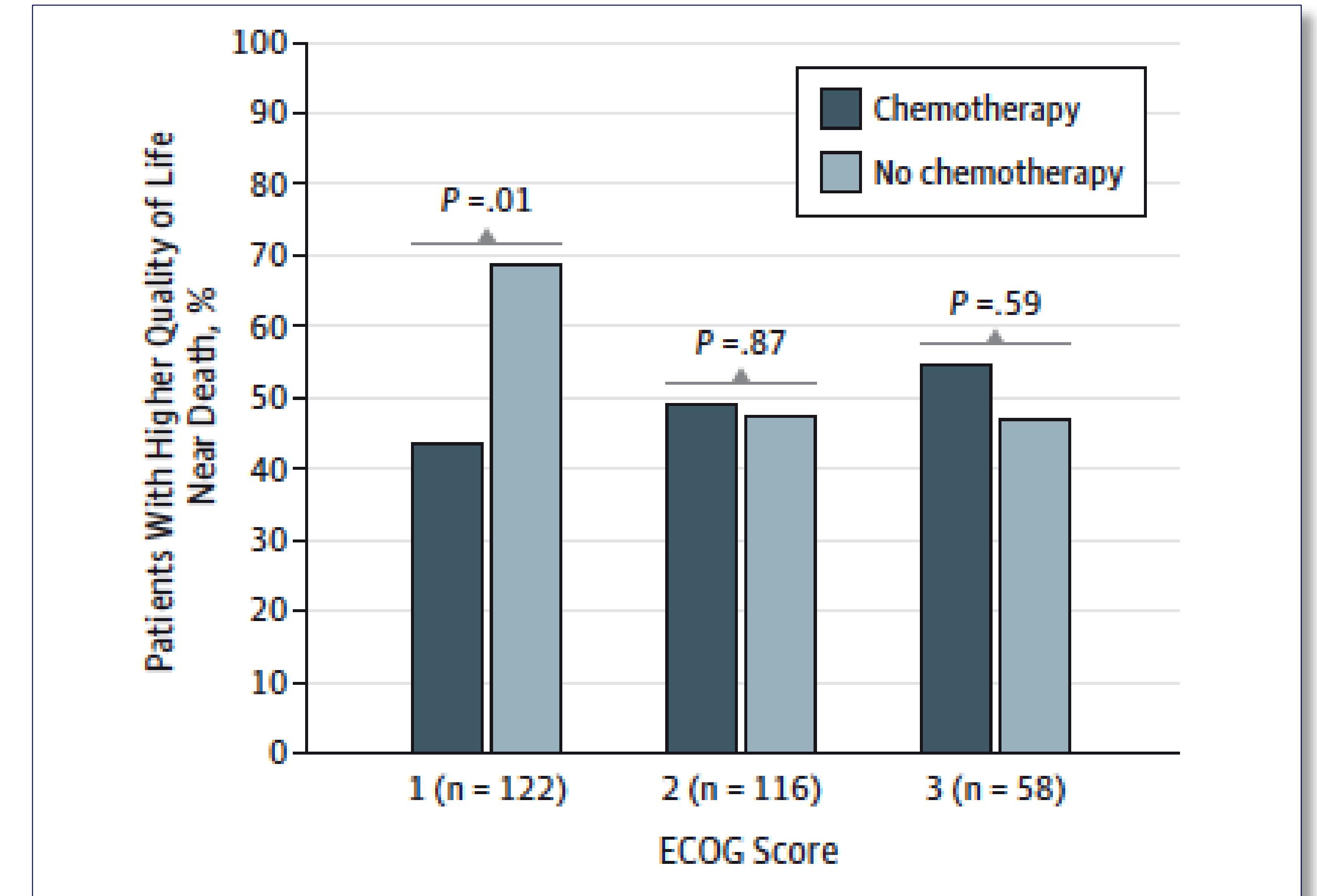


ECOG 1: ambulant
ECOG 2: <50% bettlägerig
ECOG 3: >50% bettlägerig

Chemotherapie



Lebensqualität in der
letzten Lebens-Woche

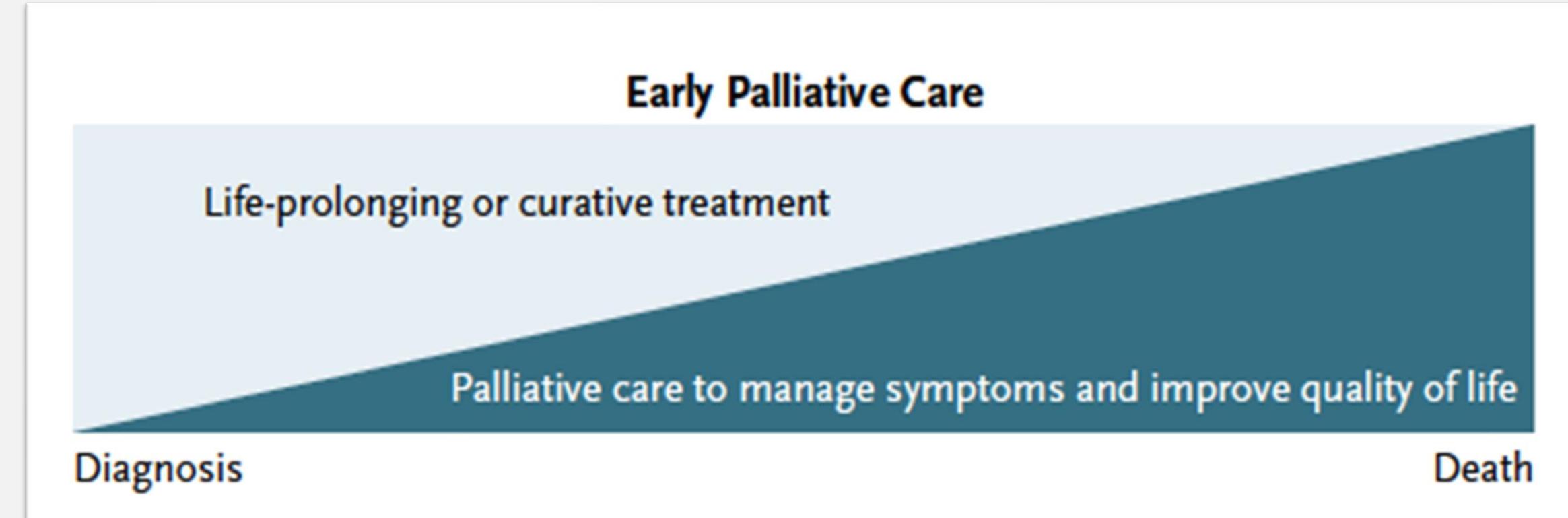


Palliativmedizin am Anfang der Erkrankung

Situation mit hoher Symptomlast



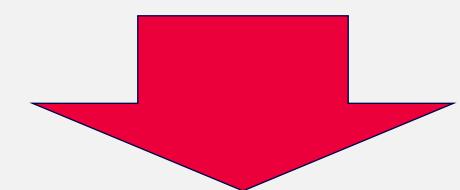
Parikh et al. NEJM 2010;369:2347-51



Reaktion

Antizipation

Antizipation statt Reaktion

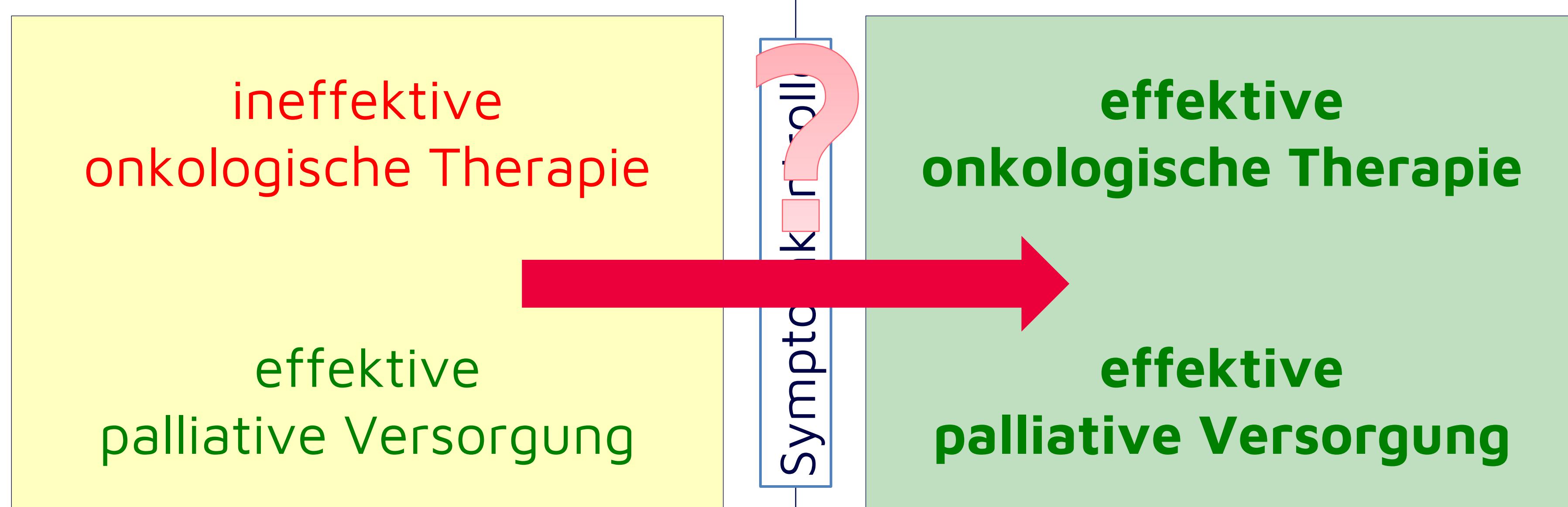


Reaktion

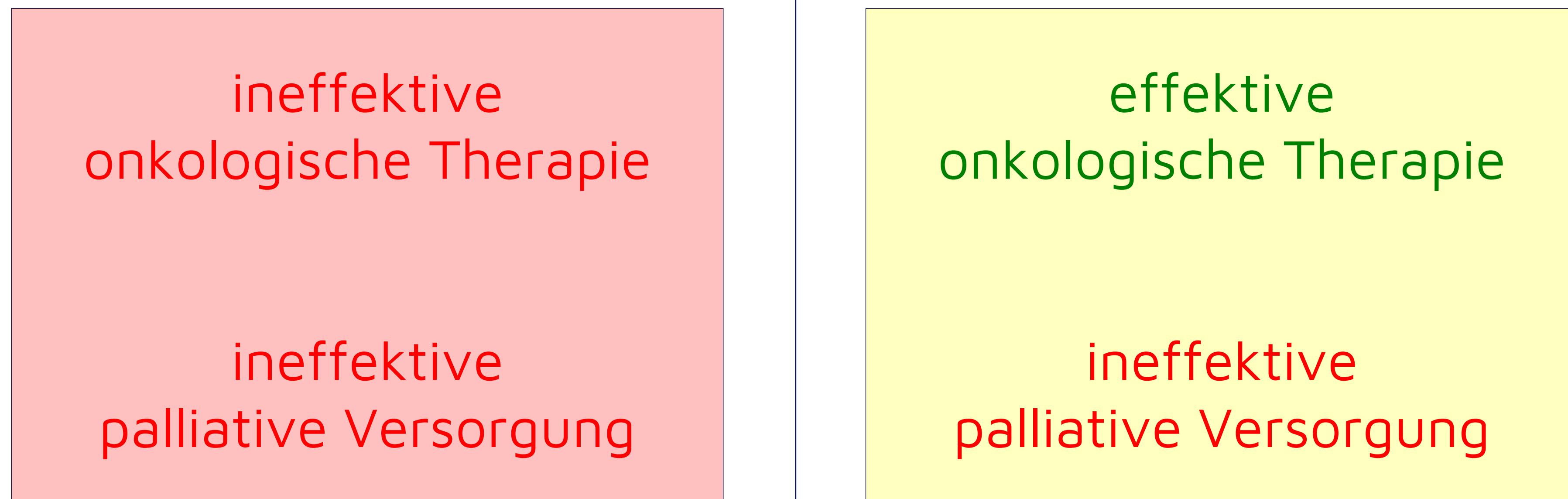
Antizipation

Gomez et al. JCO 2015;22:1438-46





Lebenszeitverlängerung



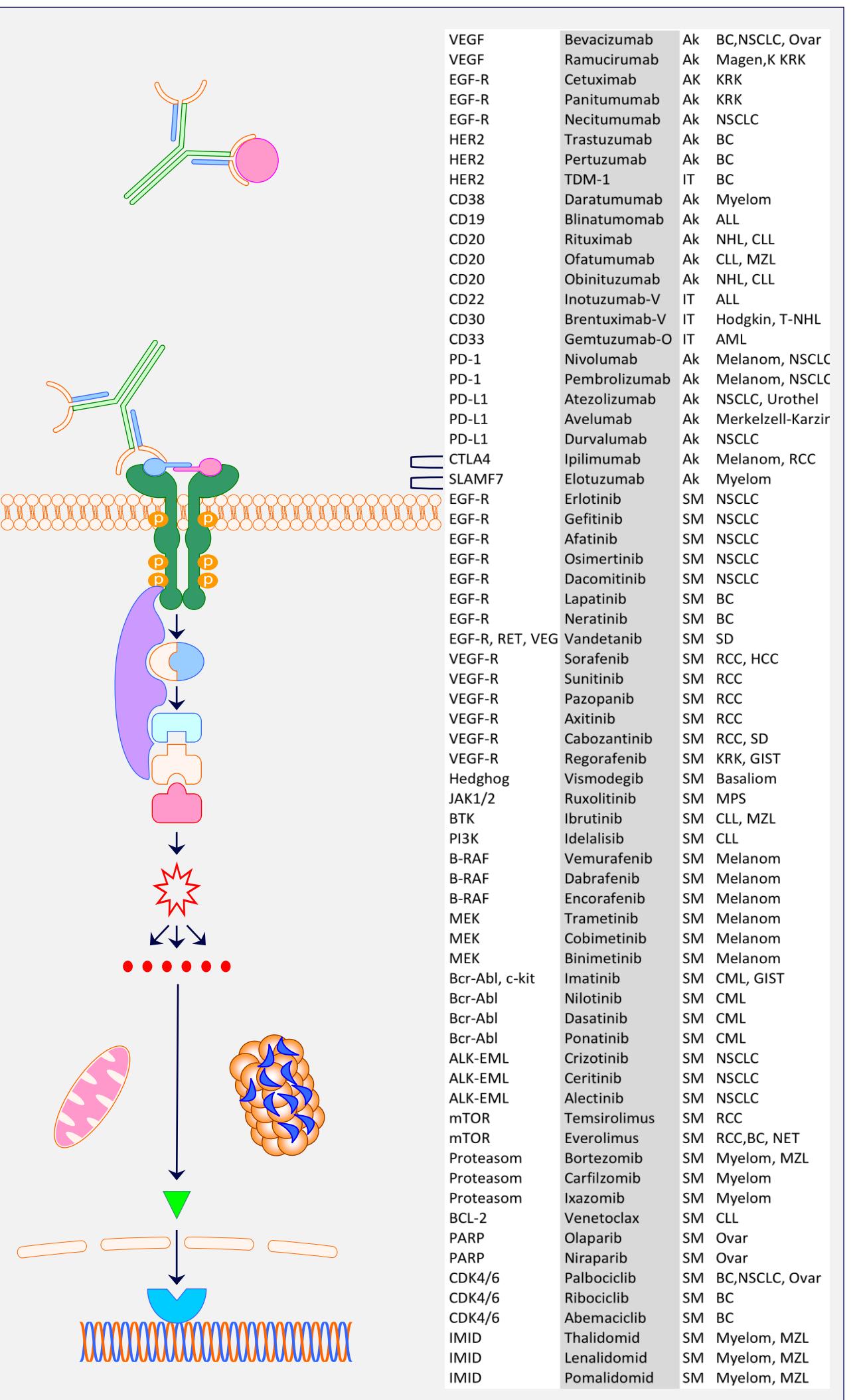
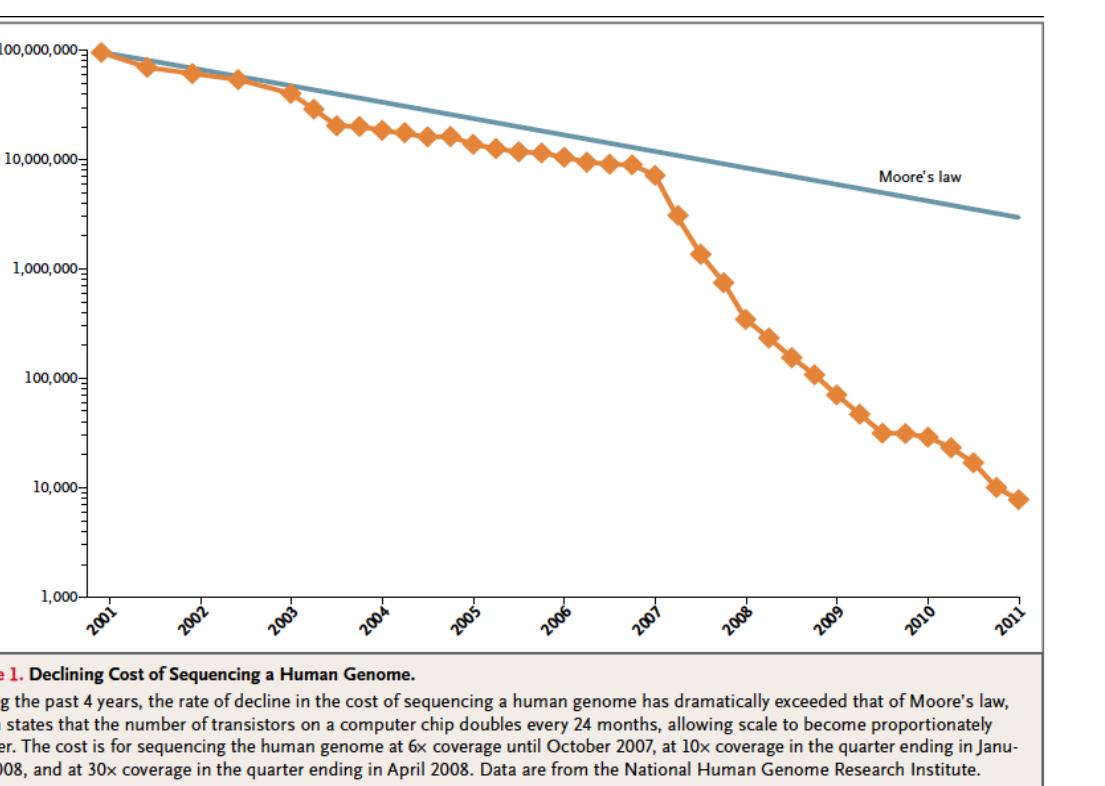
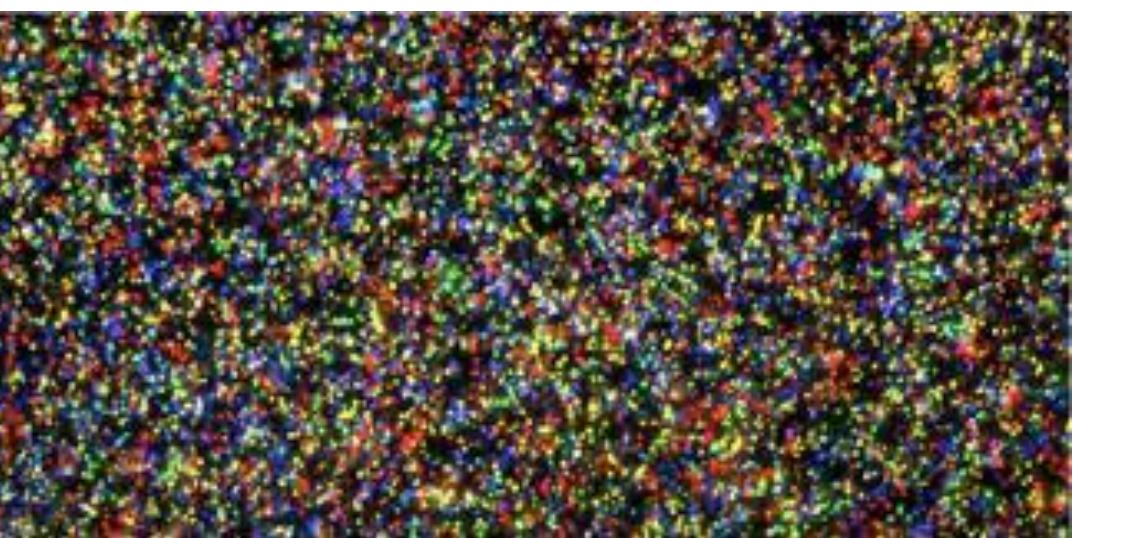
Onkologie im Wandel der Zeit

„... und an der Brust sahen wir häufig
Tumoren, die der Gestalt eines Krebses sehr
ähnlich waren. So wie die Beine des Tieres an
beiden Seiten des Körpers liegen, so verlassen
die Venen den Tumor, der seiner Form nach
dem Krebskörper gleicht.“

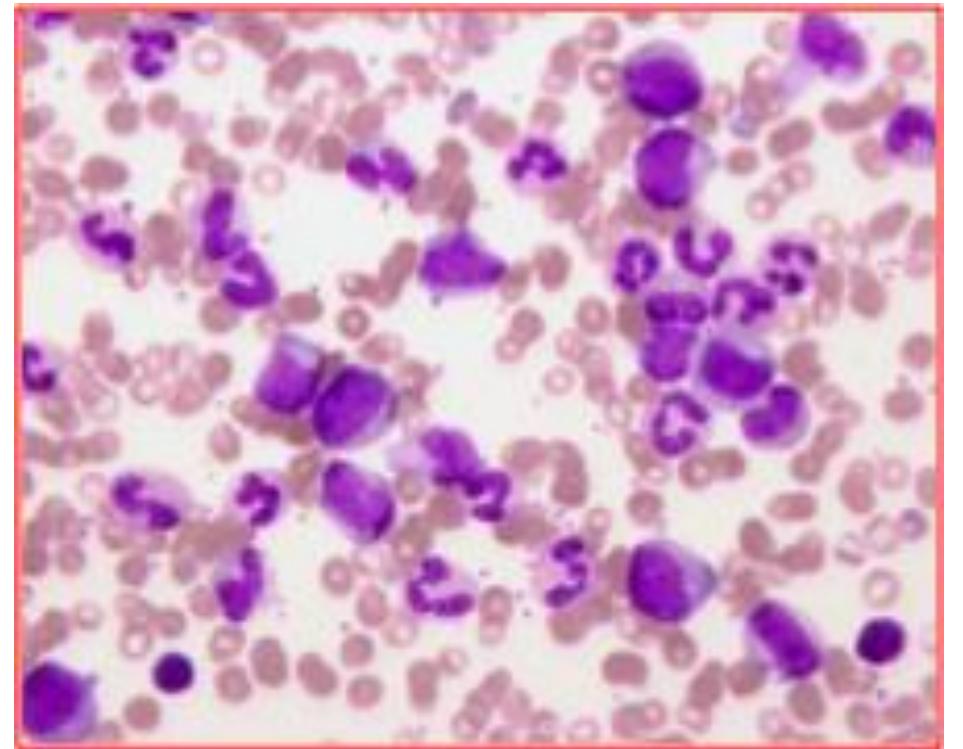
Galenos von Pergamon 2. Jh. n. Chr.



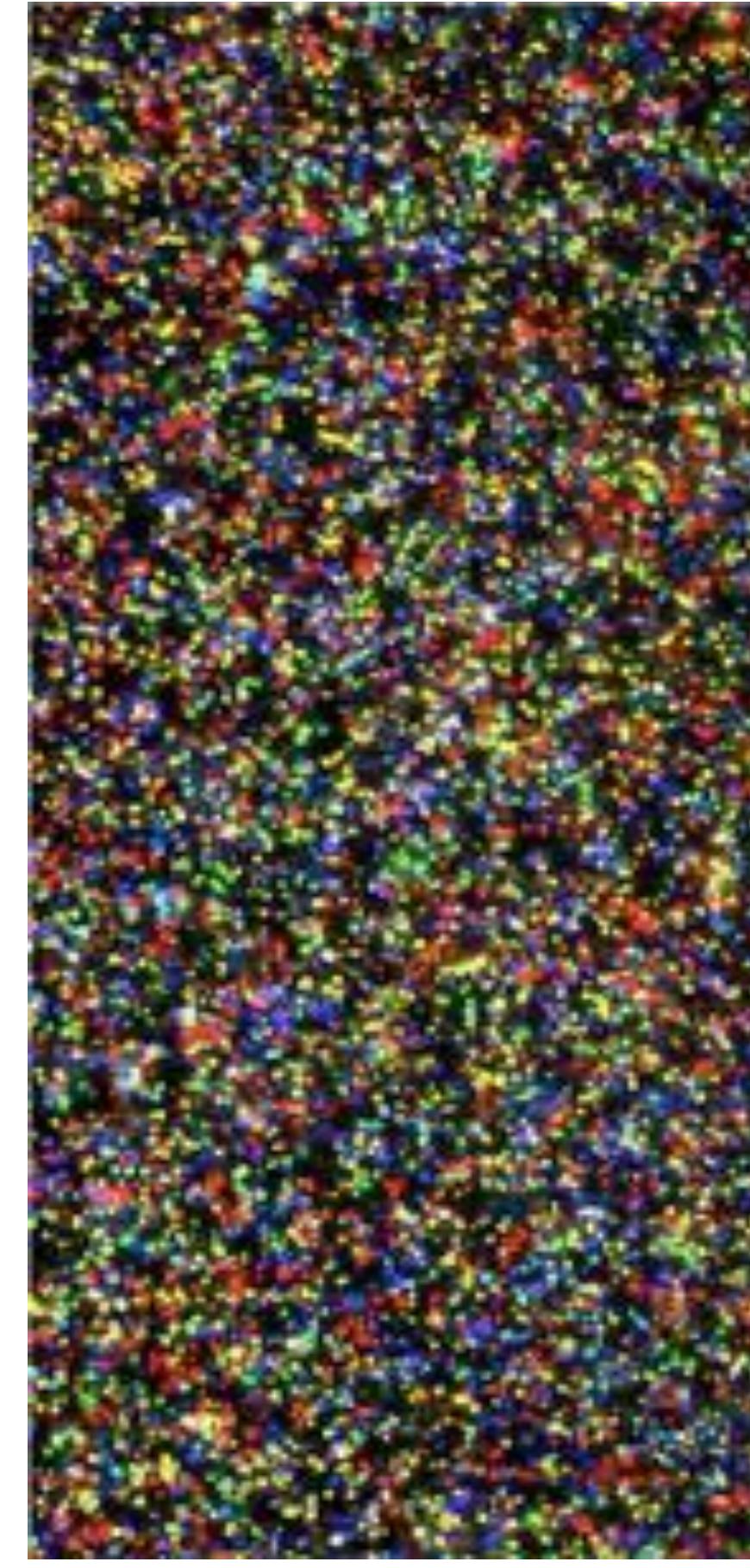
Next-Generation-Sequencing



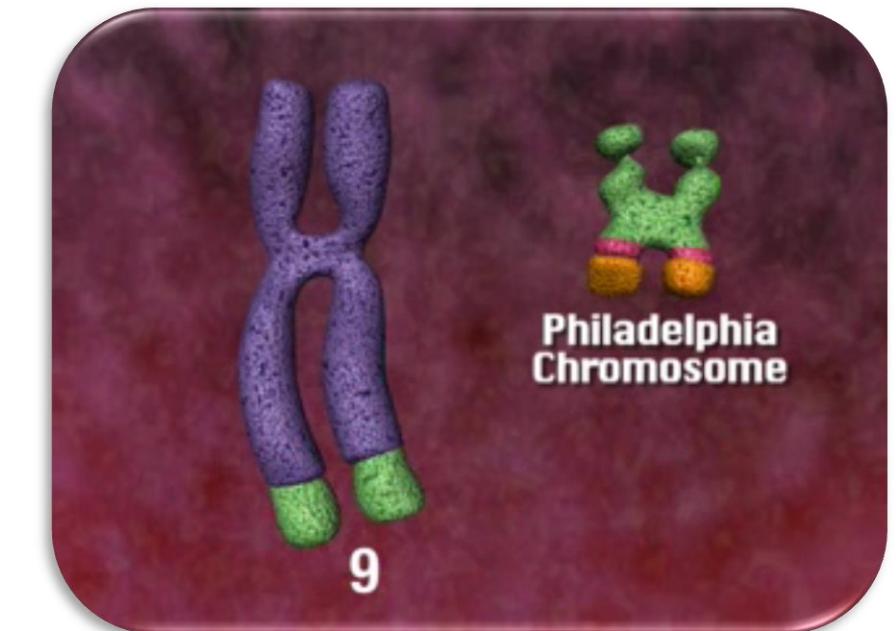
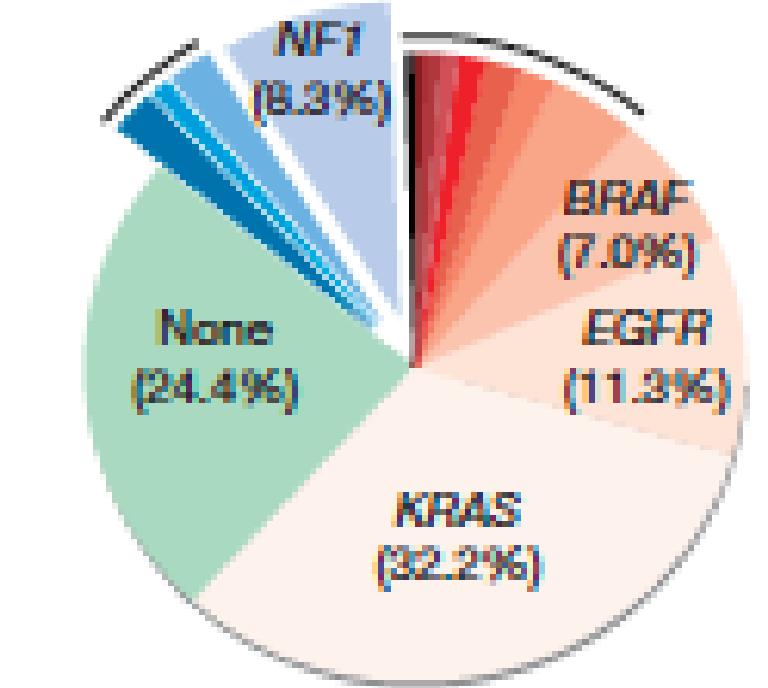
Vom Tumor zur Target-Mutation



NGS Illumina



- HRAS (0.4%)
- NRAS (0.4%)
- RET fusion (0.9%)
- MAP2K1 (0.9%)
- ALK fusion (1.3%)
- ROS1 fusion (1.7%)
- ERBB2 (1.7%)
- MET ex14 (4.2%)



24 Stunden

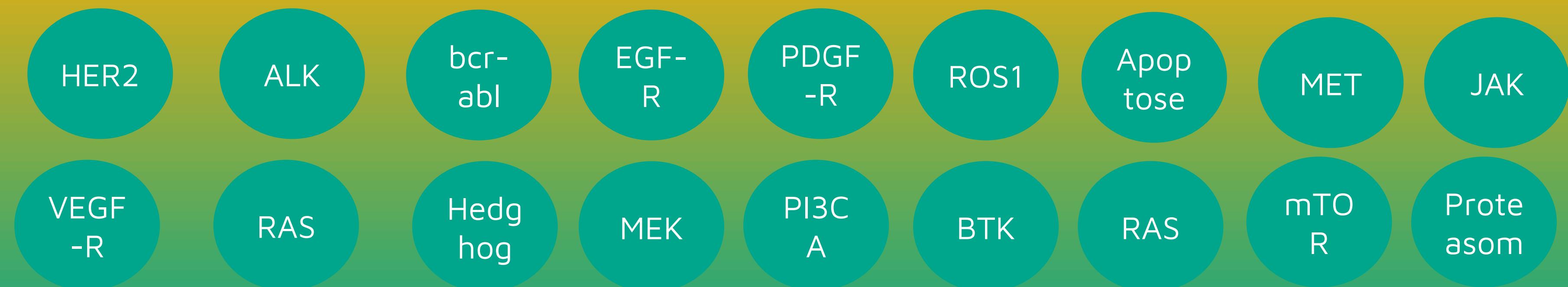
Monoklonale Antikörper



Antikörper-Drug Konjugate (ADC)

CART BITE

Immuntherapie



Small Molecules

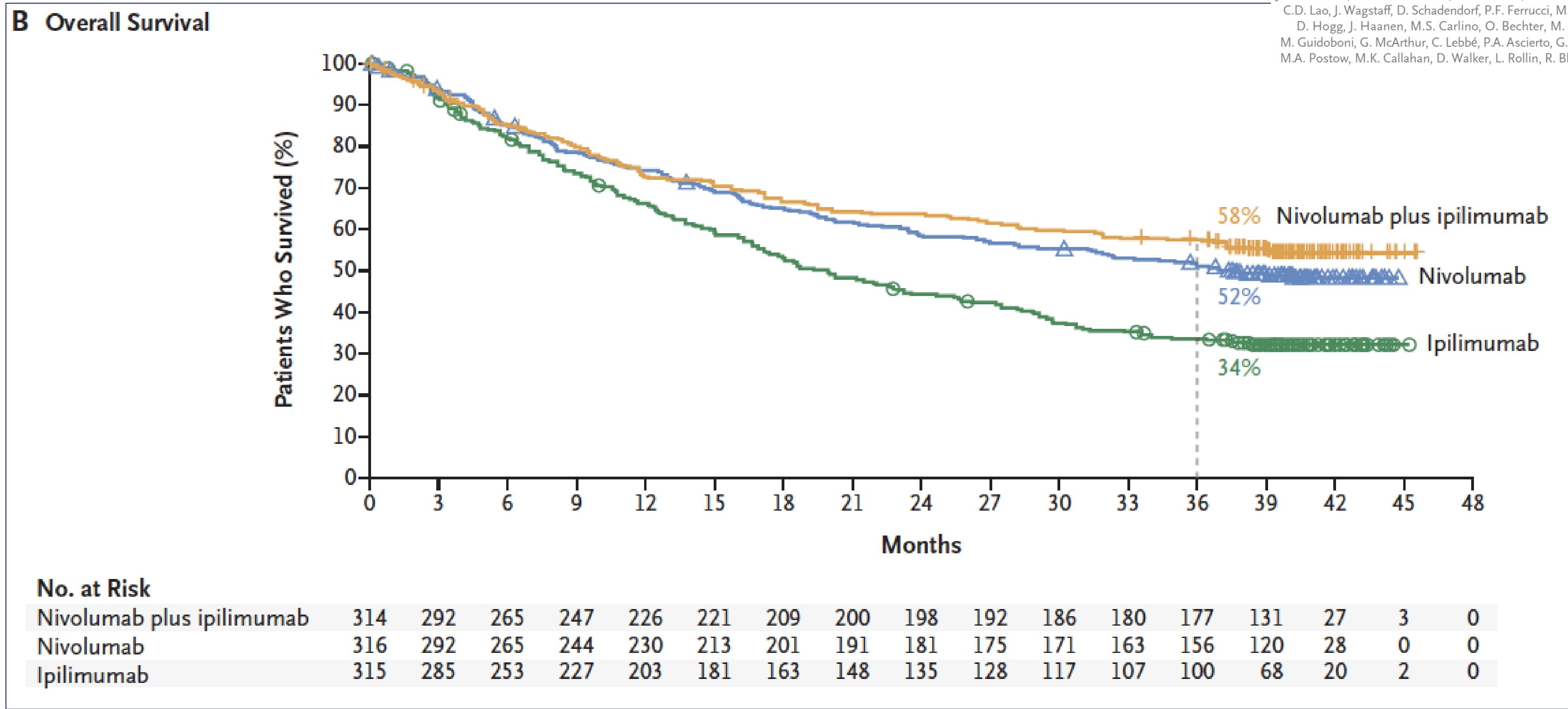
Malignes Melanom Immuntherapie

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Overall Survival with Combined Nivolumab and Ipilimumab in Advanced Melanoma

J.D. Wolchok, V. Chiarion-Sileni, R. Gonzalez, P. Rutkowski, J.-J. Grob, C.L. Cowey, C.D. Lao, J. Wagstaff, D. Schadendorf, P.F. Ferrucci, M. Smylie, R. Dummer, A. Hill, D. Hogg, J. Haanen, M.S. Carlino, O. Bechter, M. Maio, I. Marquez-Rodas, M. Guidoboni, G. McArthur, C. Lebbé, P.A. Ascierto, G.V. Long, J. Cebon, J. Sosman, M.A. Postow, M.K. Callahan, D. Walker, L. Rollin, R. Bhore, F.S. Hodi, and J. Larkin



Wochok et al. NEJM 2017;377:1345-56



Brustkrebs – HR positiv

CDK4/6 Inhibitoren in der palliativen Situation

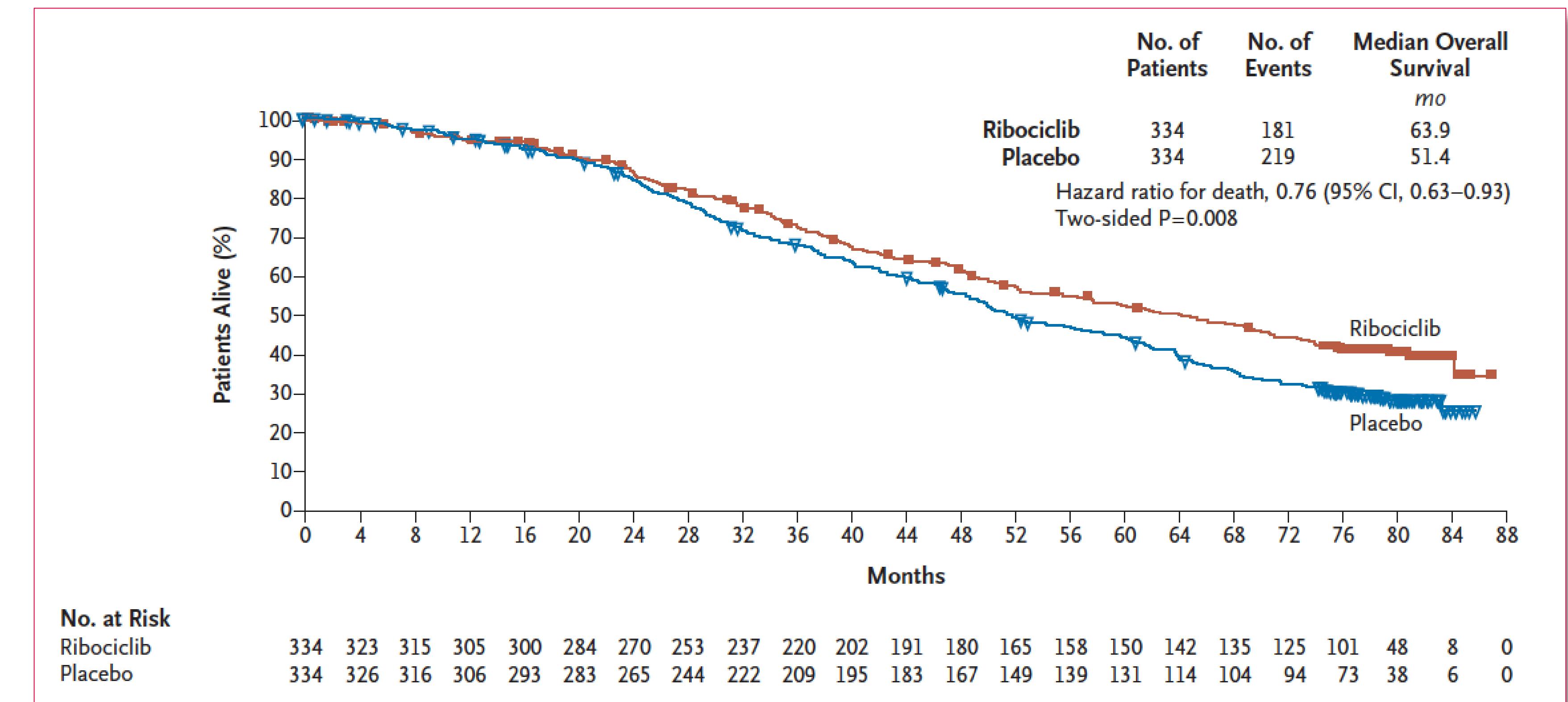
Ribociclib 600mg d1-21 q28 + Letrozol 2,5mg

ORIGINAL ARTICLE

Overall Survival with Ribociclib plus Letrozole in Advanced Breast Cancer

Gabriel N. Hortobagyi, M.D., Salomon M. Stemmer, M.D., Howard A. Burris, M.D., Yoon-Sim Yap, M.D., Gabe S. Sonke, M.D., Ph.D., Lowell Hart, M.D., Mario Campone, M.D., Ph.D., Katarina Petrakova, M.D., Ph.D., Eric P. Winer, M.D., Wolfgang Janni, M.D., Ph.D., Pierfranco Conte, M.D., Ph.D., David A. Cameron, M.D., Fabrice André, M.D., Ph.D., Carlos L. Arteaga, M.D., Juan P. Zarate, M.D., Arunava Chakravarthy, Ph.D., Tetiana Taran, M.D., Fabienne Le Gac, Ph.D., Pharm.D., Paolo Serra, M.Sc., and Joyce O'Shaughnessy, M.D.

verbessert das Gesamtüberleben

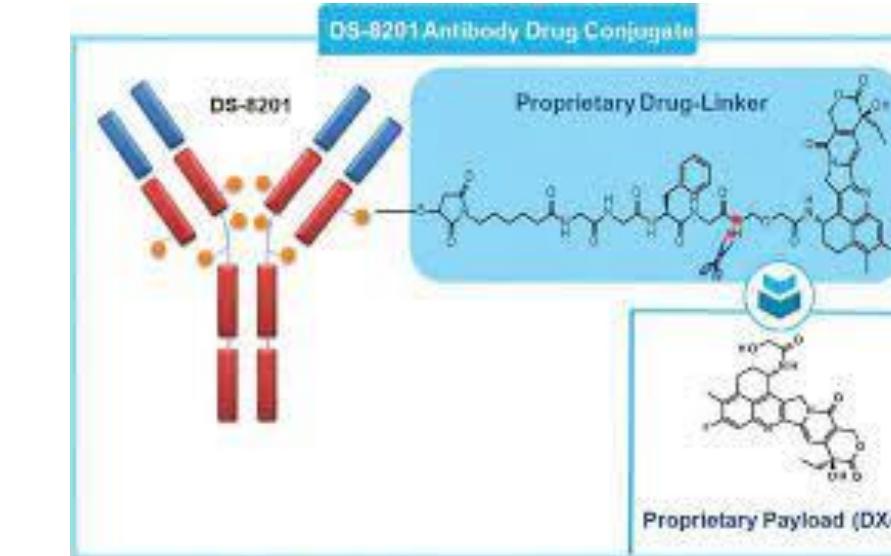


Brustkrebs - HER-positiv

Trastuzumab-Deruxtecan (TDx)

Trastuzumab-Emsantine (TDM1) vs. TDx

2. Linie nach mindestens Trastuzumab/Taxan

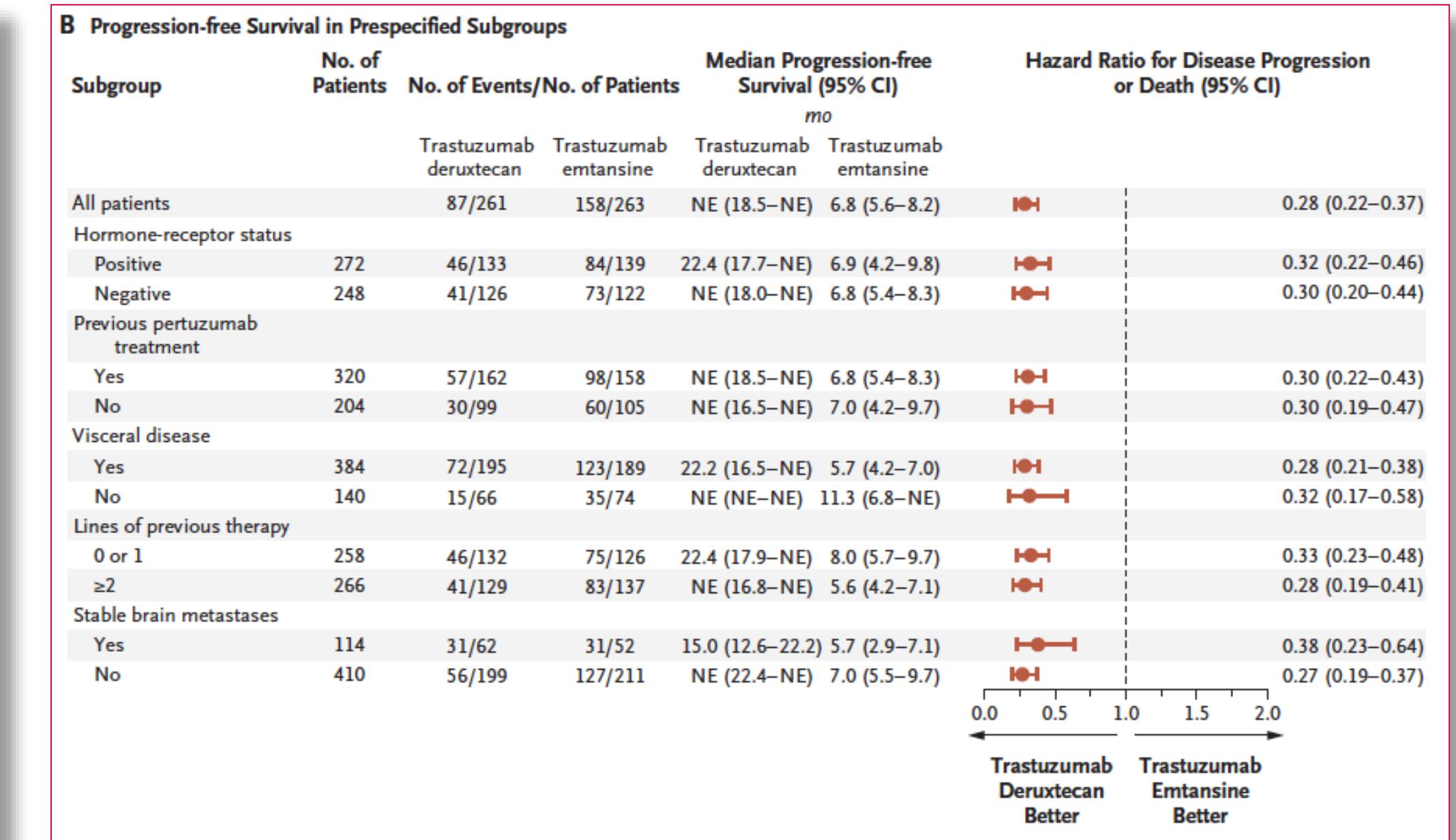
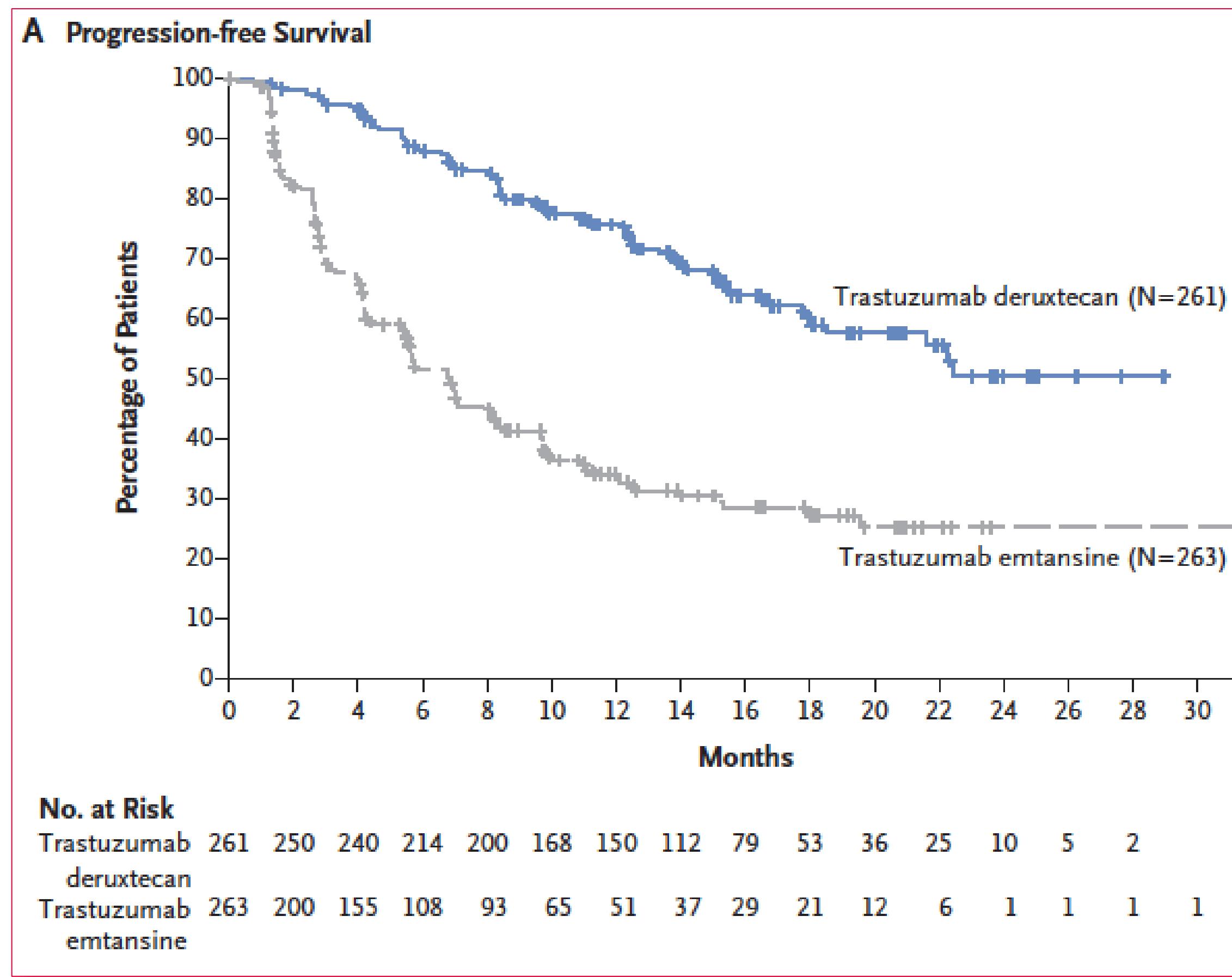


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ORIGINAL ARTICLE

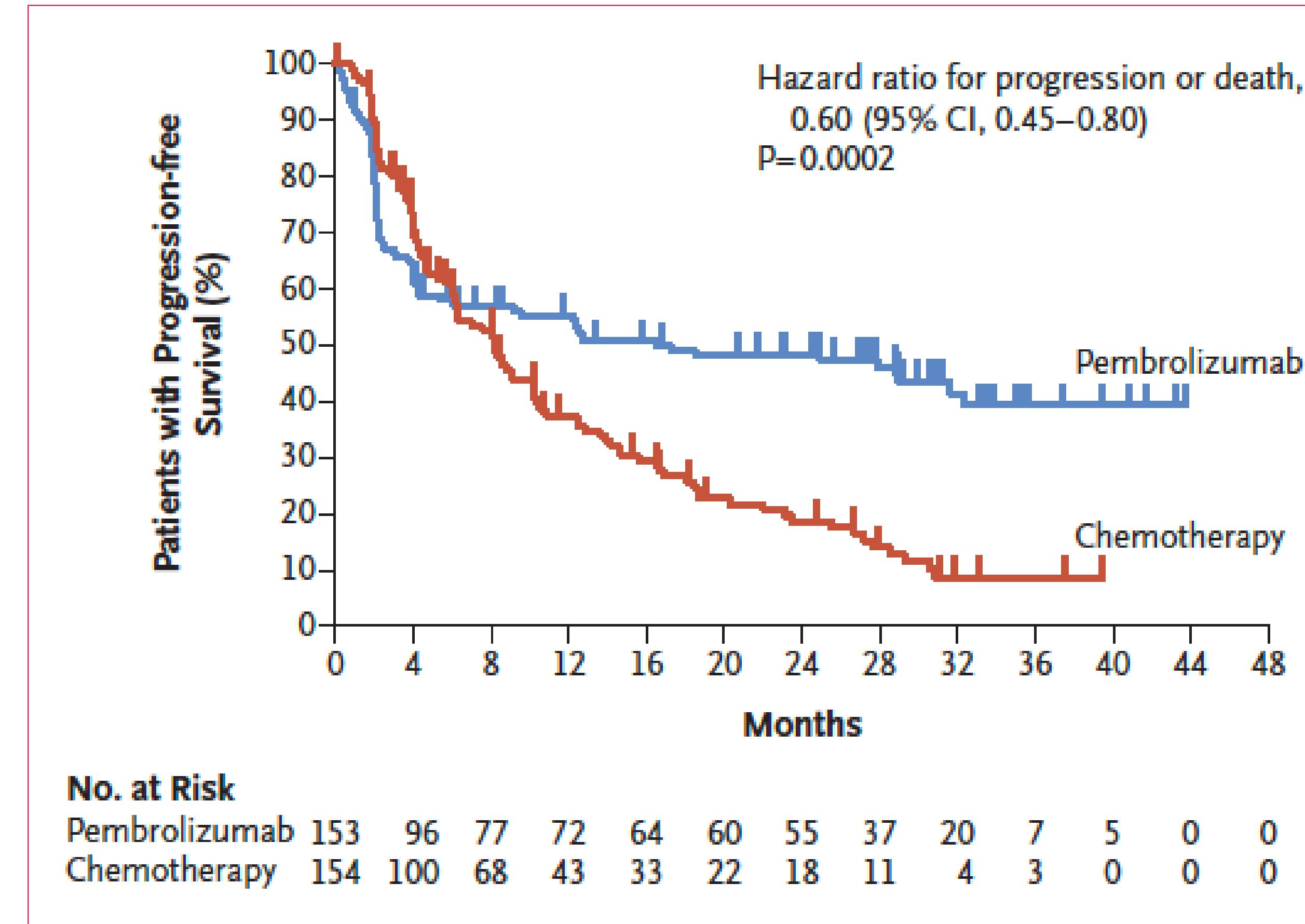
Trastuzumab Deruxtecan versus Trastuzumab Emtansine for Breast Cancer

J. Cortés, S.-B. Kim, W.-P. Chung, S.-A. Im, Y.H. Park, R. Hegg, M.H. Kim, L.-M. Tseng, V. Petry, C.-F. Chung, H. Iwata, E. Hamilton, G. Curigliano, B. Xu, C.-S. Huang, J.H. Kim, J.W.Y. Chiu, J.L. Pedrini, C. Lee, Y. Liu, J. Cathcart, E. Bako, S. Verma, and S.A. Hurvitz, for the DESTINY-Breast03 Trial Investigators*



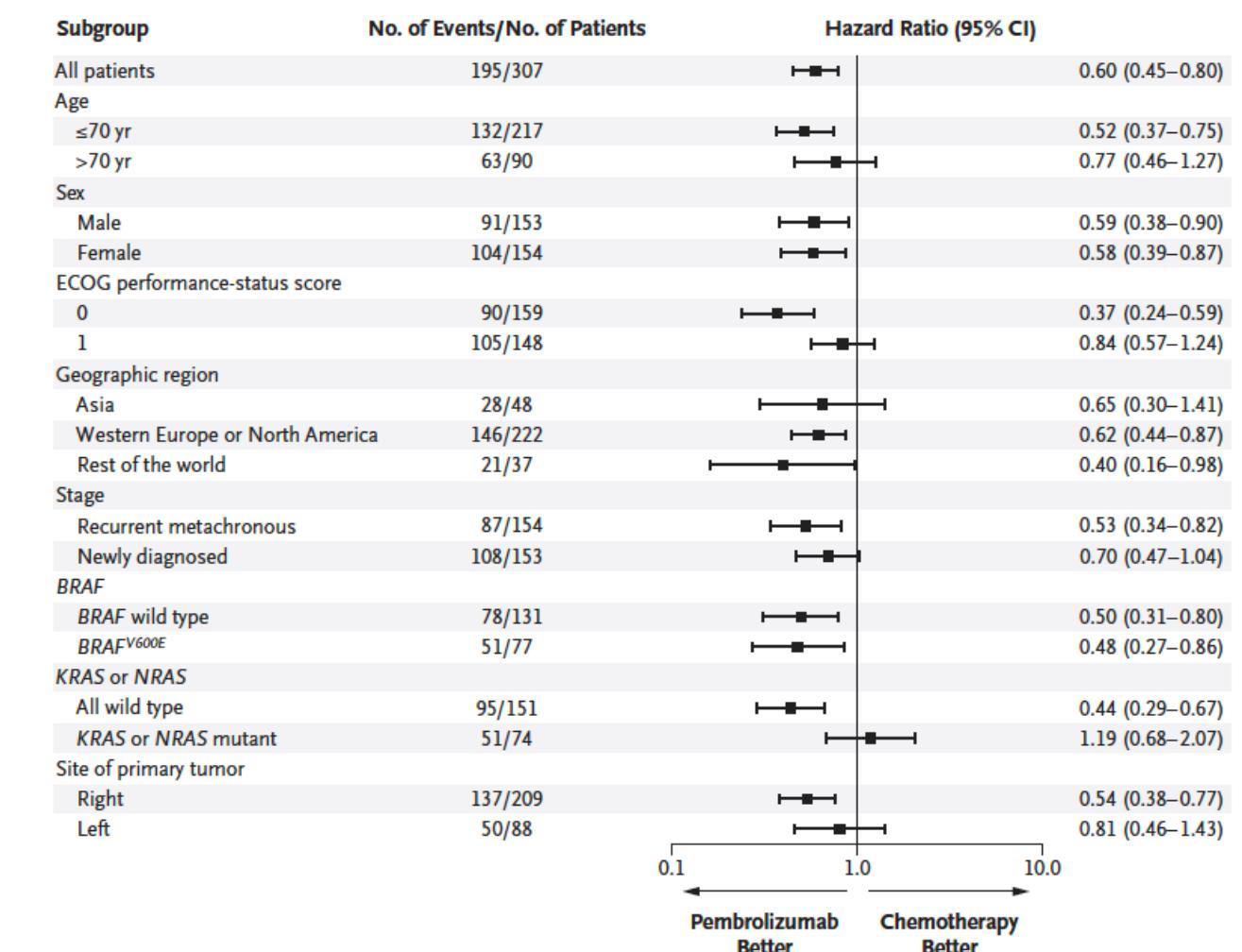
Kolorektales Karziom - MSI-dMMR

1. Linie: FOLFOX6/FOLFIRI + Cetuximab/Bevacizumab vs. Pembrolizumab-Mono



Pembrolizumab in Microsatellite-Instability-High Advanced Colorectal Cancer

T. André, K.-K. Shiu, T.W. Kim, B.V. Jensen, L.H. Jensen, C. Punt, D. Smith, R. Garcia-Carbonero, M. Benavides, P. Gibbs, C. de la Fouchardiere, F. Rivera, E. Elez, J. Bendell, D.T. Le, T. Yoshino, E. Van Cutsem, P. Yang, M.Z.H. Farooqui, P. Marinello, and L.A. Diaz, Jr., for the KEYNOTE-177 Investigators*



Lungenkrebs adjuvante Therapie

Exon19-Deletion, Exon21 L858R

Nach Chemotherapie Osimertinib 80mg über 3 Jahre

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JOURNAL of MEDICINE

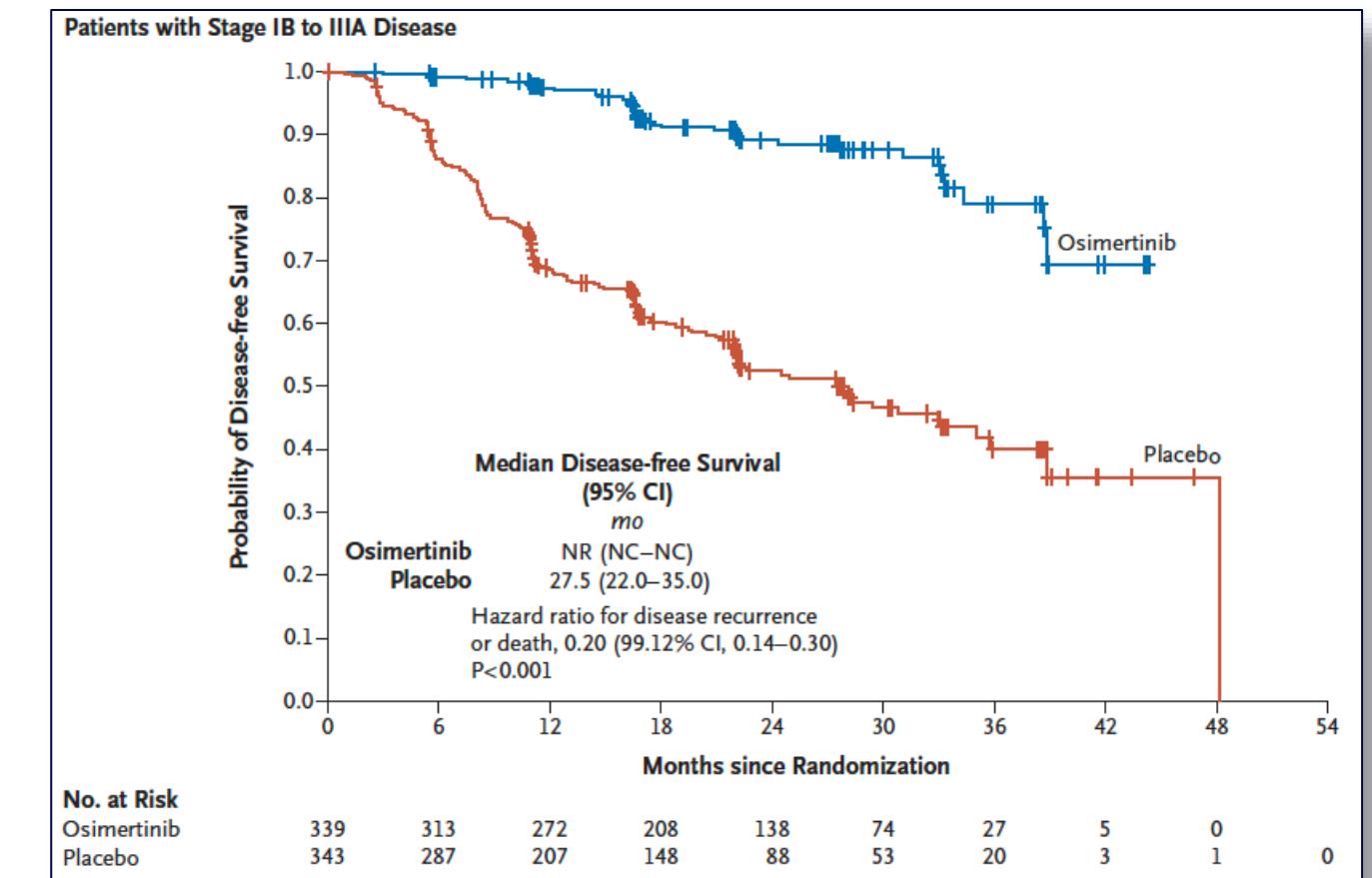
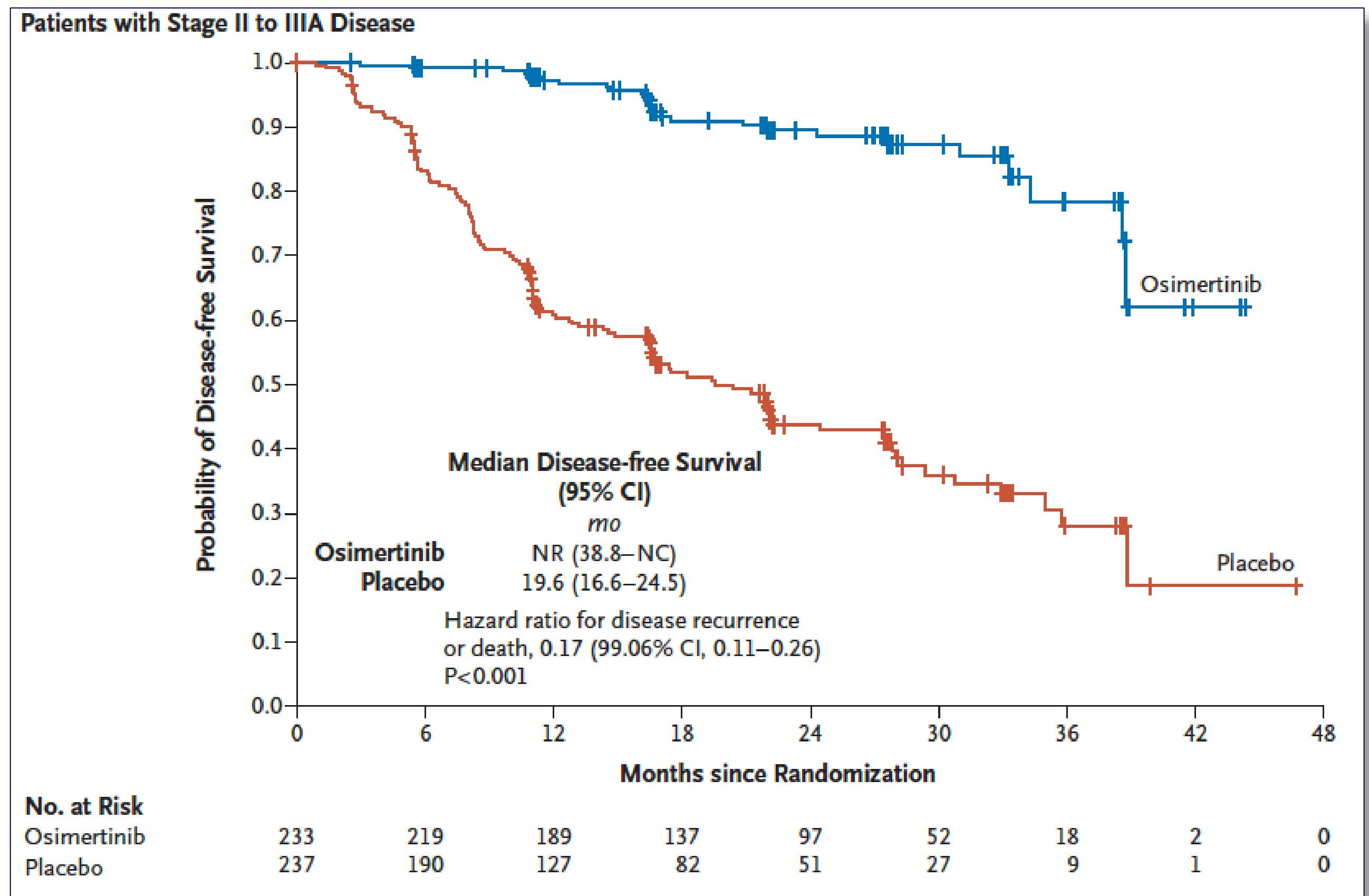
ESTABLISHED IN 1812

OCTOBER 29, 2020

VOL. 383 NO. 18

Osimertinib in Resected EGFR-Mutated Non-Small-Cell Lung Cancer

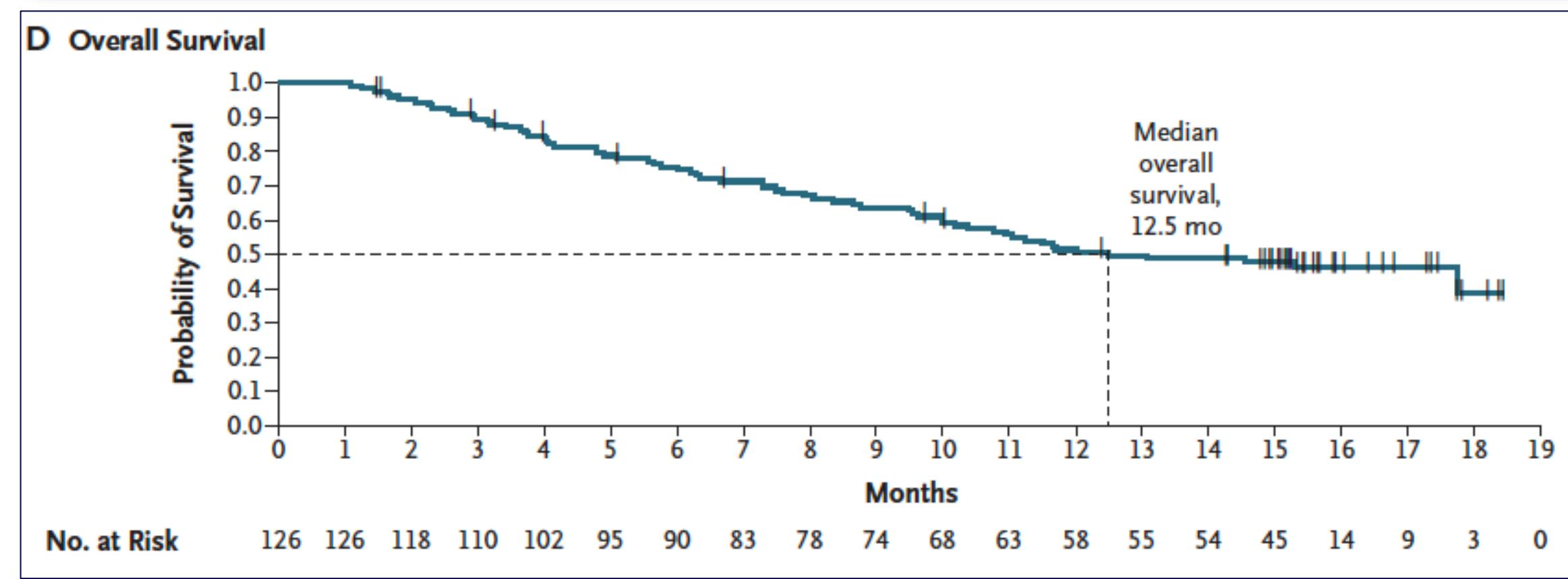
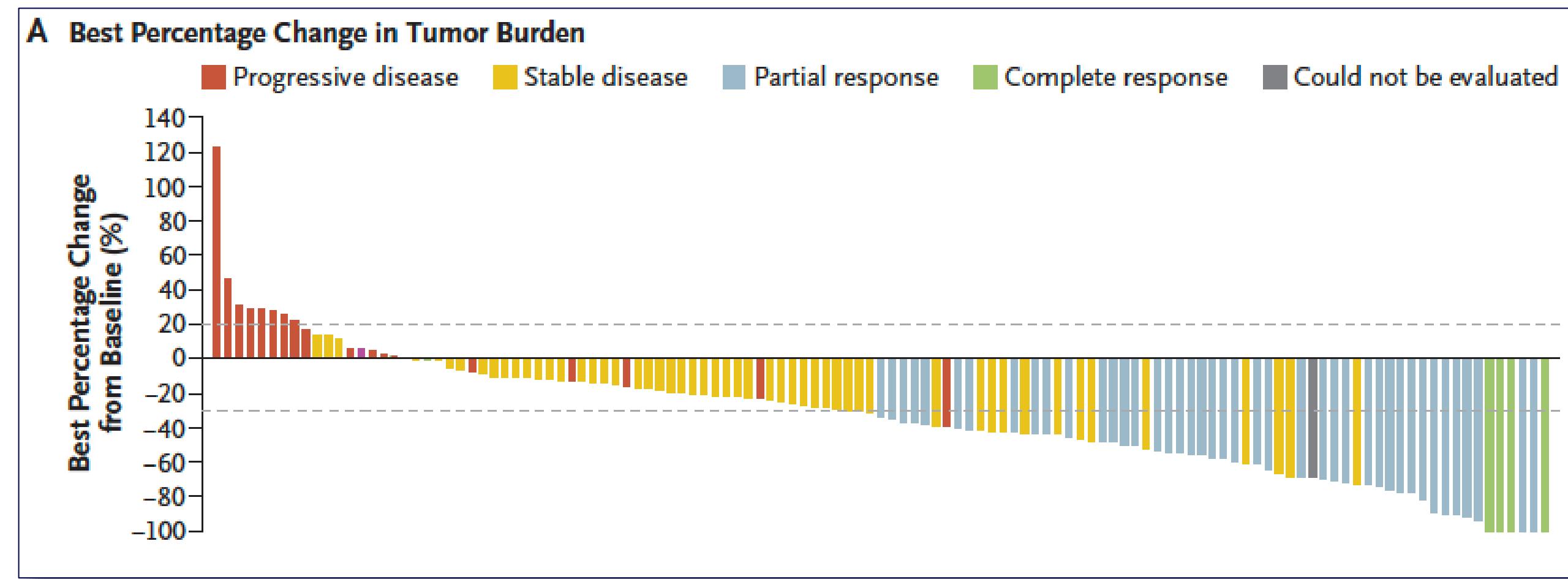
Yi-Long Wu, M.D., Masahiro Tsuboi, M.D., Jie He, M.D., Thomas John, Ph.D., Christian Grohe, M.D., Margarita Majem, M.D., Jonathan W. Goldman, M.D., Konstantin Laktonov, Ph.D., Sang-We Kim, M.D., Ph.D., Terufumi Kato, M.D., Huu-Vinh Vu, M.D., Ph.D., Shun Lu, M.D., Kye-Young Lee, M.D., Ph.D., Charuwan Akewanlop, M.D., Chong-Jen Yu, M.D., Ph.D., Filippo de Marinis, M.D., Laura Bonanno, M.D., Manuel Domine, M.D., Ph.D., Frances A. Shepherd, M.D., Lingmin Zeng, Ph.D., Rachel Hodge, M.Sc., Ajlan Atasoy, M.D., Yuri Rukazenkova, M.D., Ph.D., and Roy S. Herbst, M.D., Ph.D., for the ADAURA Investigators*



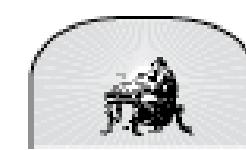
Lungenkrebs - KRAS p.G12C

Mindestens 1 Vortherpie

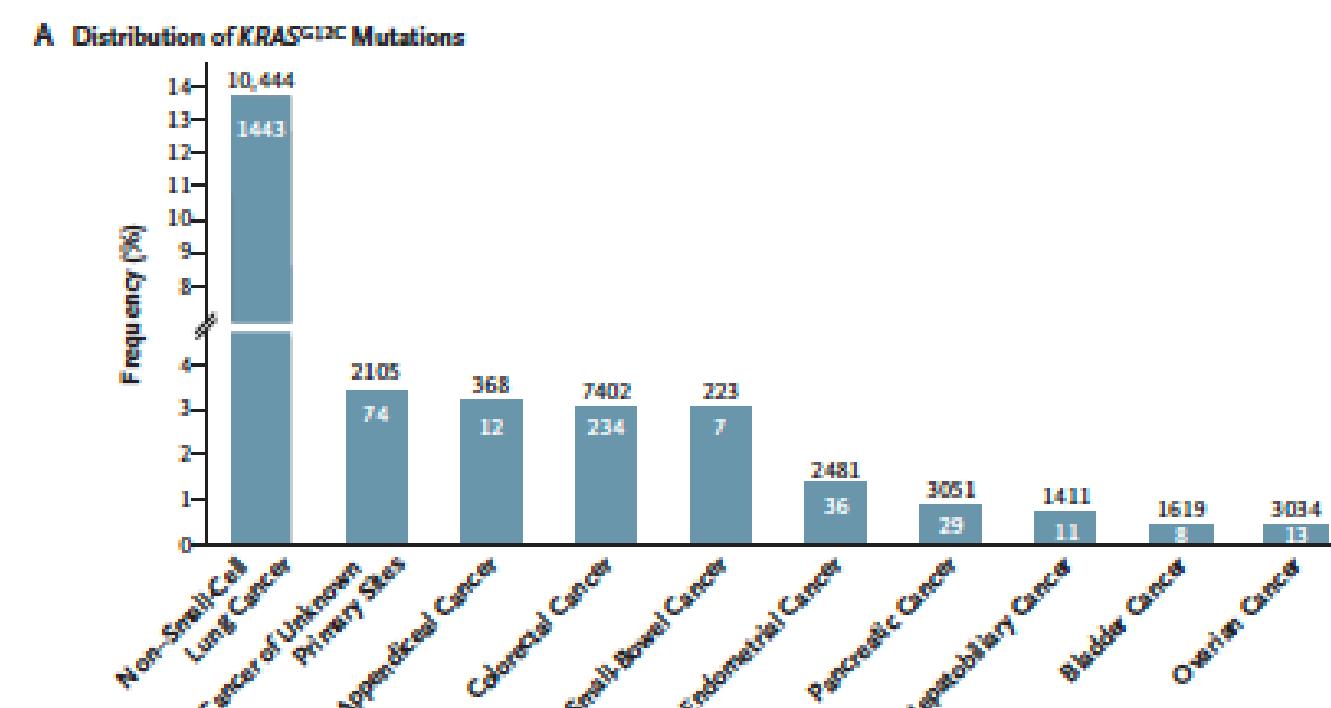
- Sotorasib 960 mg tgl. oral.



CORRESPONDENCE



Distribution of KRAS^{G12C} Somatic Mutations across Race, Sex, and Cancer Type



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JOURNAL of MEDICINE

ESTABLISHED IN 1812

JUNE 24, 2021

VOL. 384 NO. 25

Sotorasib for Lung Cancers with KRAS p.G12C Mutation

F. Skoulidis, B.T. Li, G.K. Dy, T.J. Price, G.S. Falchook, J. Wolf, A. Italiano, M. Schuler, H. Borghaei, F. Barlesi, T. Kato, A. Curioni-Fontecedro, A. Sacher, A. Spira, S.S. Ramalingam, T. Takahashi, B. Besse, A. Anderson, A. Ang, Q. Tran, O. Mather, H. Henary, G. Ngarmchamnanith, G. Friberg, V. Velcheti, and R. Govindan

Skoulidis et al. NEJM 2021;384:2371-81



Lungenkrebs - ALK

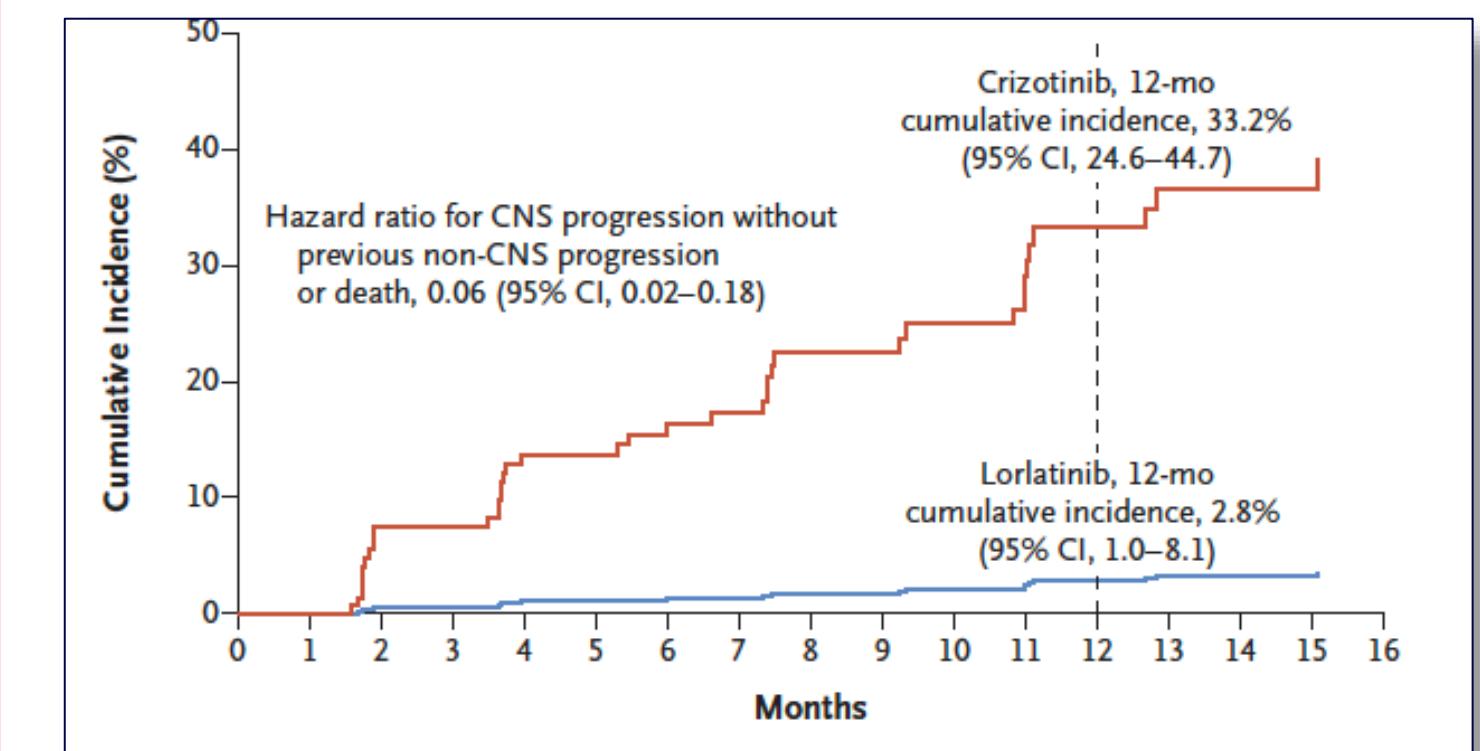
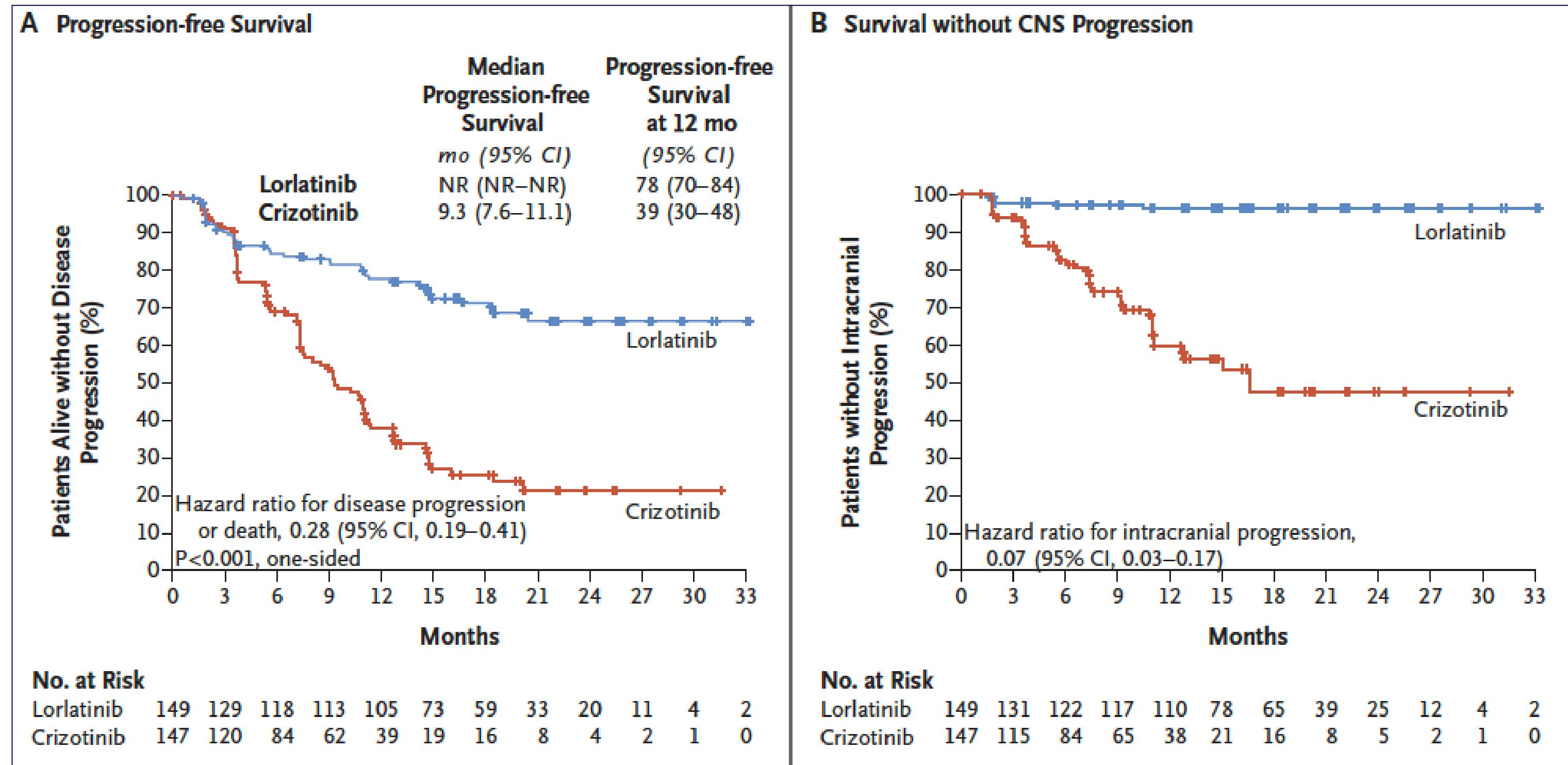
Lorlatinib

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ORIGINAL ARTICLE

First-Line Lorlatinib or Crizotinib in Advanced ALK-Positive Lung Cancer

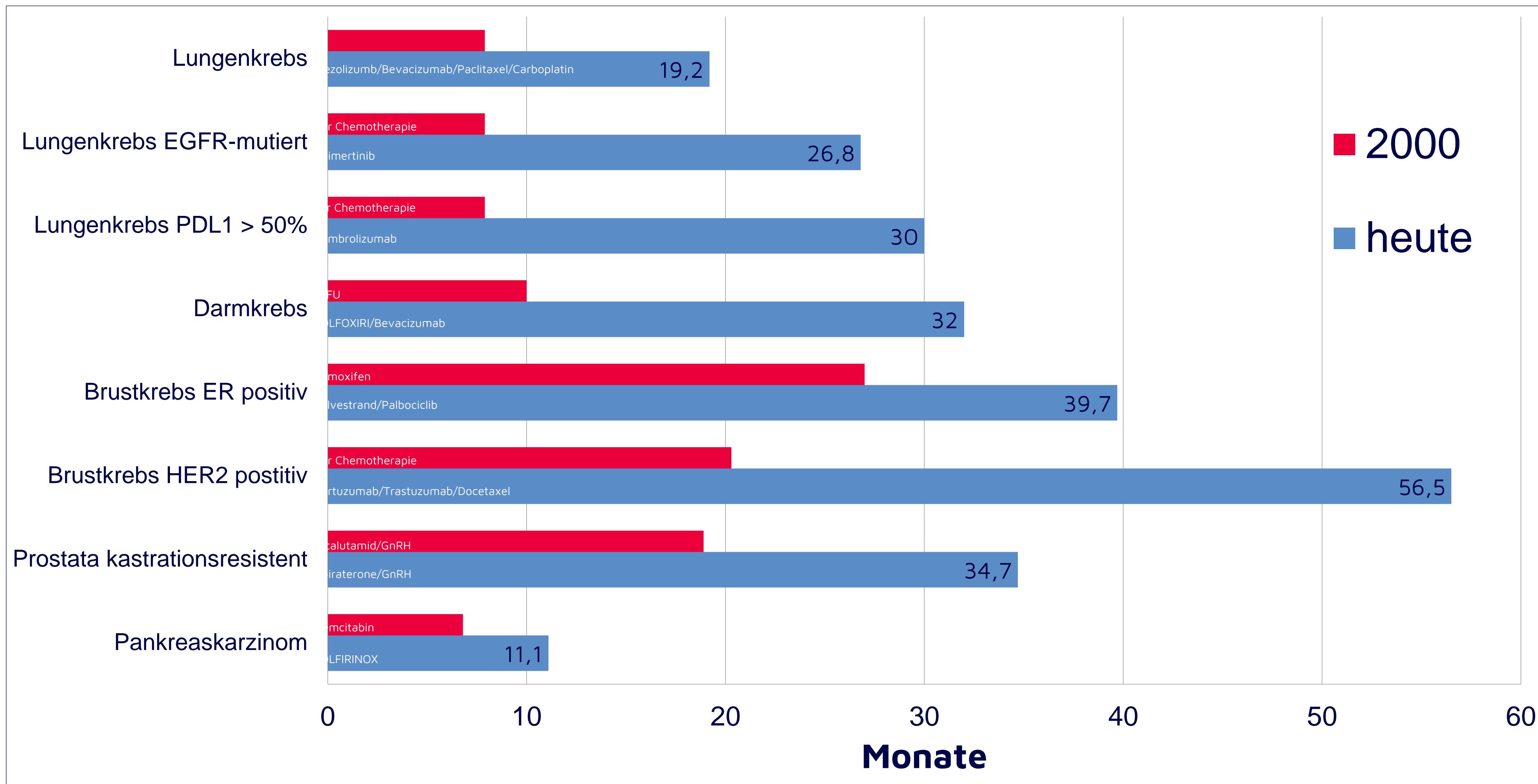
Alice T. Shaw, M.D., Ph.D., Todd M. Bauer, M.D., Filippo de Marinis, M.D., Ph.D., Enriqueta Felip, M.D., Ph.D., Yasushi Goto, M.D., Ph.D., Geoffrey Liu, M.D., Julien Mazieres, M.D., Ph.D., Dong-Wan Kim, M.D., Ph.D., Tony Mok, M.D., Anna Polli, B.Sc., Holger Thurm, M.D., Anna M. Calella, Ph.D., Gerson Peltz, M.D., M.P.H., and Benjamin J. Solomon, M.B., B.S., Ph.D., for the CROWN Trial Investigators*



Überleben mit Krebs und Metastasen

Gestern und Heute

Länger Leben



Mutationsspezifische Therapien

	adjuvant	1st	2nd	3rd
EGF-R (Ex19/21)	Osimertinib (delEx19, Ex21 L858R)	Erlotinib Gefitinib Afatinib Osimertinib	Osimertinib (T790M)	Afatinib (Mutation Ex18 p.G724S)
EGF-R T790M		Osimertinib	Osimertinib	
EGF-R Exon (18)20			Mobocertinib Poziotinib	
ALK		Crizotinib Ceritinib Alectinib Brigatinib	Ceritinib (nach Crizotinib) Lorlatinib Brigatinib (nach Crizotinib)	Lorlatinib
ROS-1		Crizotinib	Lorlatinib	
B-RAF V600E		Dabrafenib+Trametinib		
RAS p.G12C		Sotorasib		
MET Ex14		Tepotinib Capmatinib	Tepotinib Capmatinib	
HER2 (ERBB2)			Trastuzumab-Deruxtecan	
NTRK			Larotrectinib	
RET			Selpercatinib Pralsetinib	



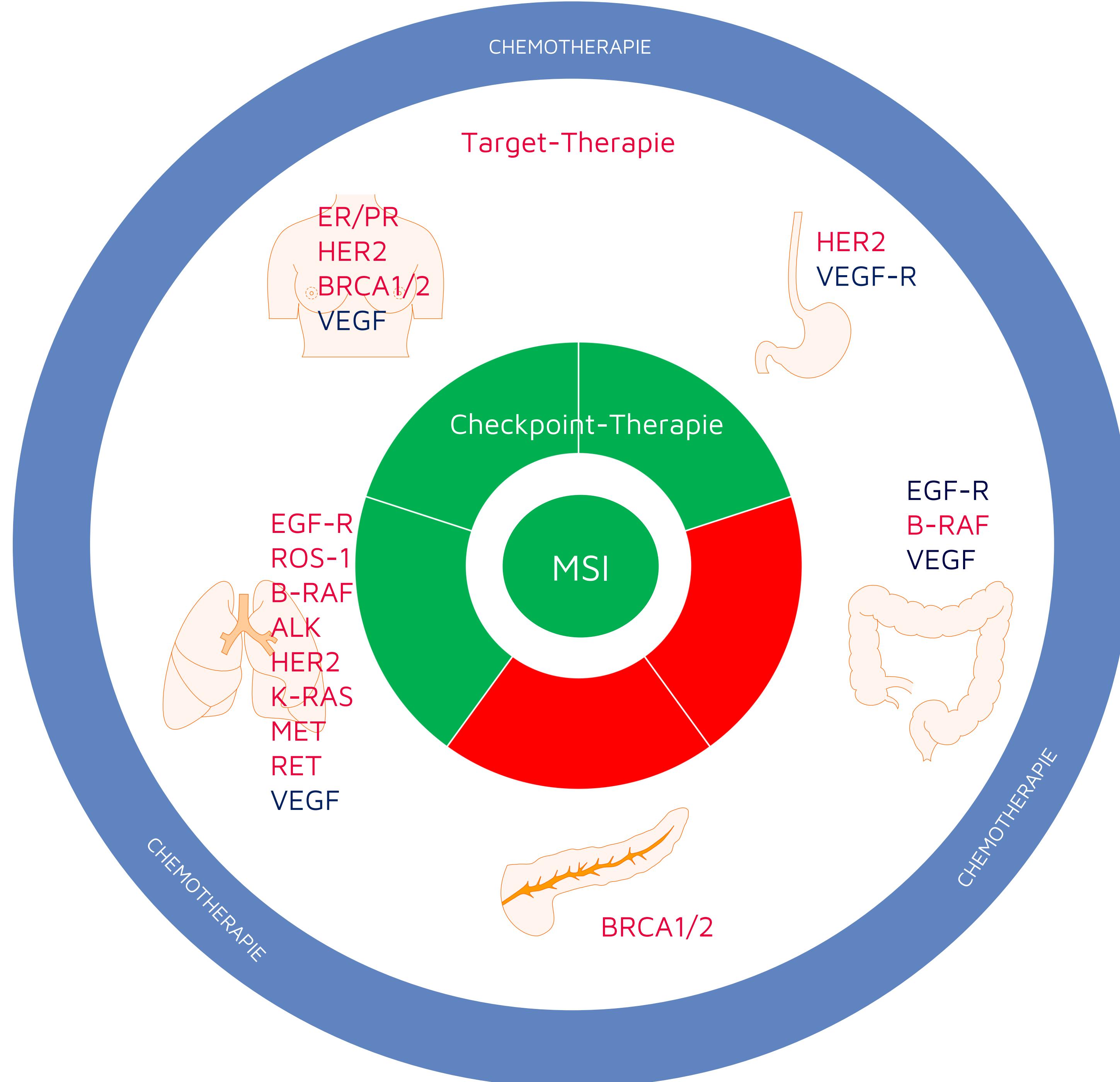


Immuntherapie 2022

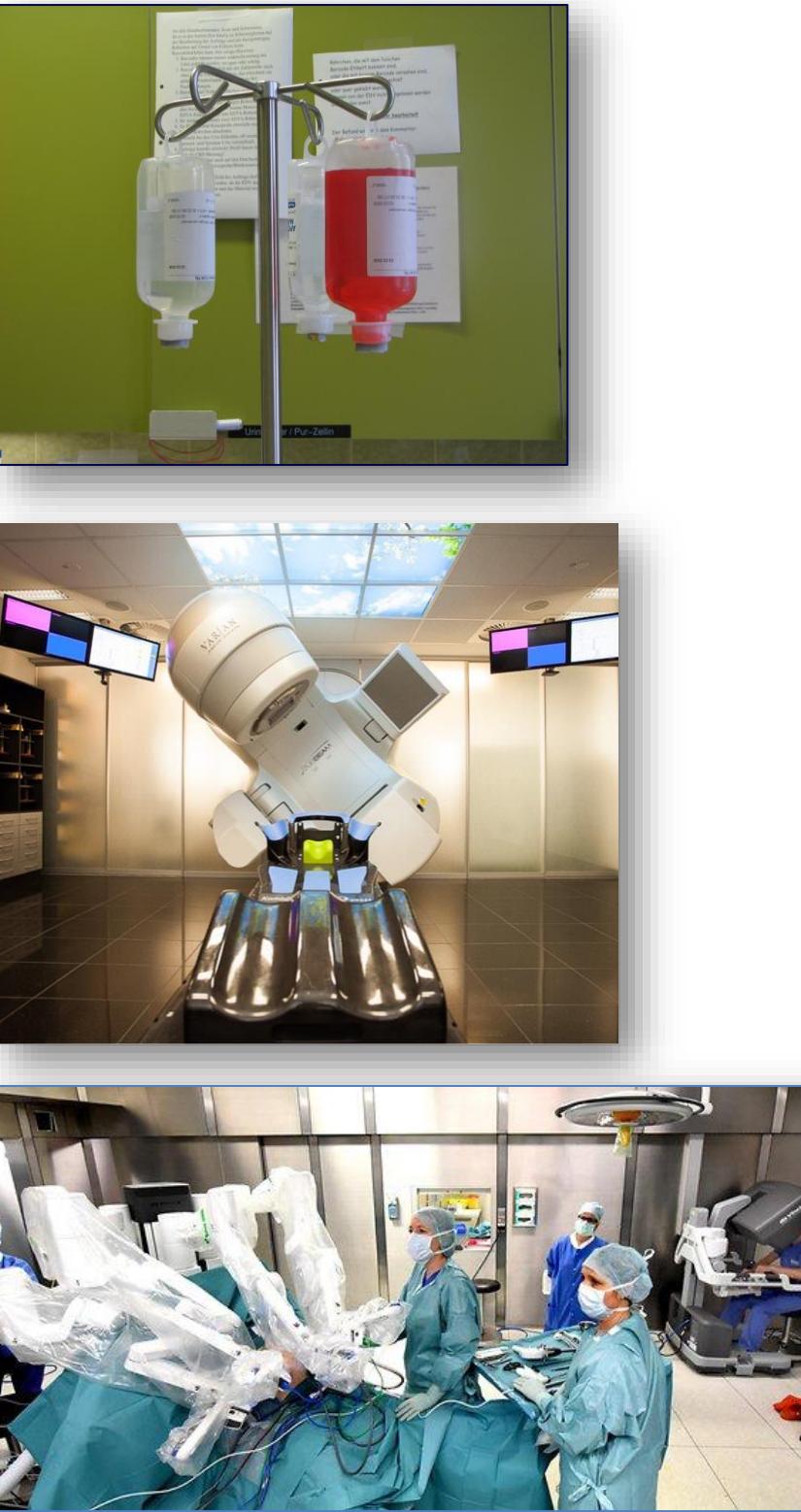
		Melanom	Merkelzell-Karzinom	Plattenepithelkarzinom der Haut	Basalzellkarzinom	Lungenkrebs NSCLC Adeno	Lungenkrebs NSCLC Platte	Lungekrebs SCLC	Pleurameotheliom	Brustkrebs TNBC	Ösophagus-Karzinom/AEG	Magenkarzinom	Darmkrebs MSI-high	HCC	Nierenkrebs	Urothelekarzinom	Kopf-Hals-Krebs	Endometrium-Karzinom	M. Hodgkin
Therapie	Marker																		
Ipilimumab Yervoy®	CTLA-4	+				+	+		+				+	2nd		+			
Nivolumab Opdivo®	PD-1	+				+	+		+		(+)		+	2nd		+	+	+	+
Pembrolizumab Keytruda®	PD-1	+				+	+				+		+	1st		+	+	+	+
Avelumab Bavenico®	PD-L1		+													+			
Durvalumab Imfinzi®	PD-L1					+	+												
Atezolizumab TecentriC®	PD-L1					+		+		+					+		+		
Cemiplimab Libtayo®	PD-L1			+		+	+	+											
Dostarlimab Jemperli®	PD-1																	+	

Immuntherapie 2022

Systemtherapie 2022

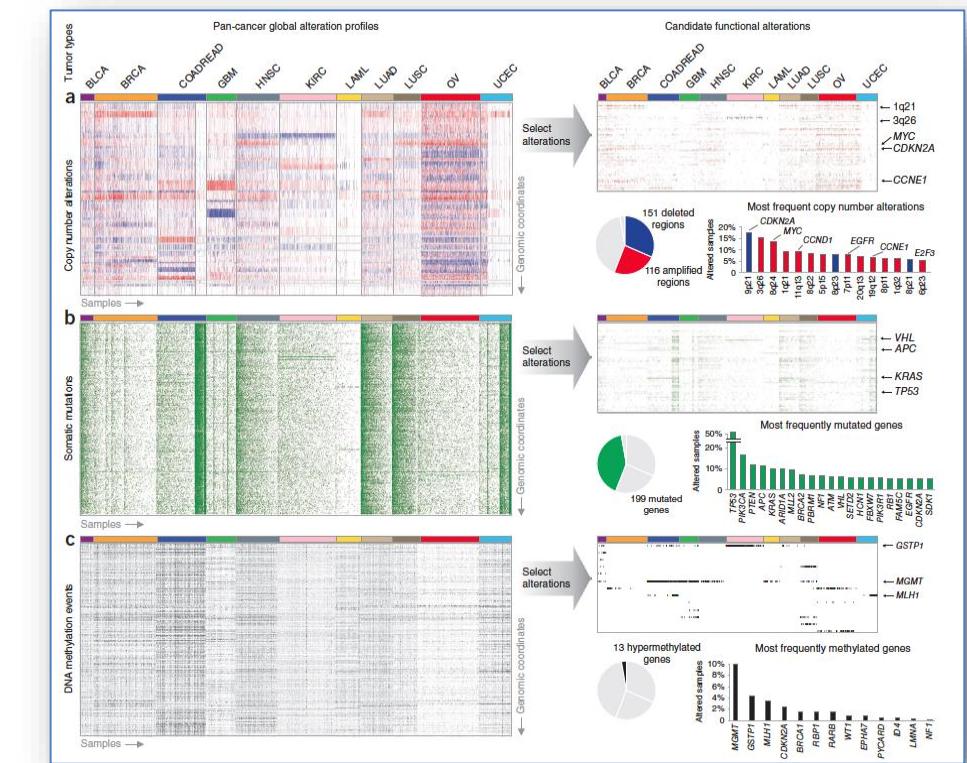


Systemtherapie/ die 3 Säulen der Therapie heute

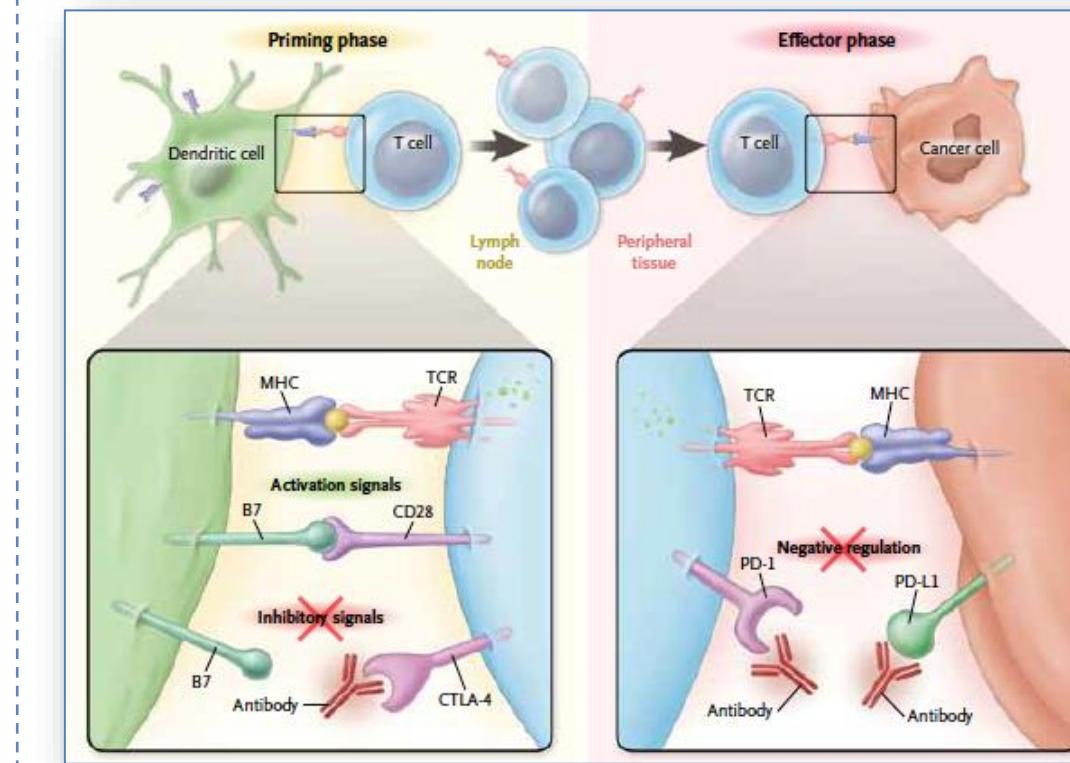


Konventionelle Therapie

2010



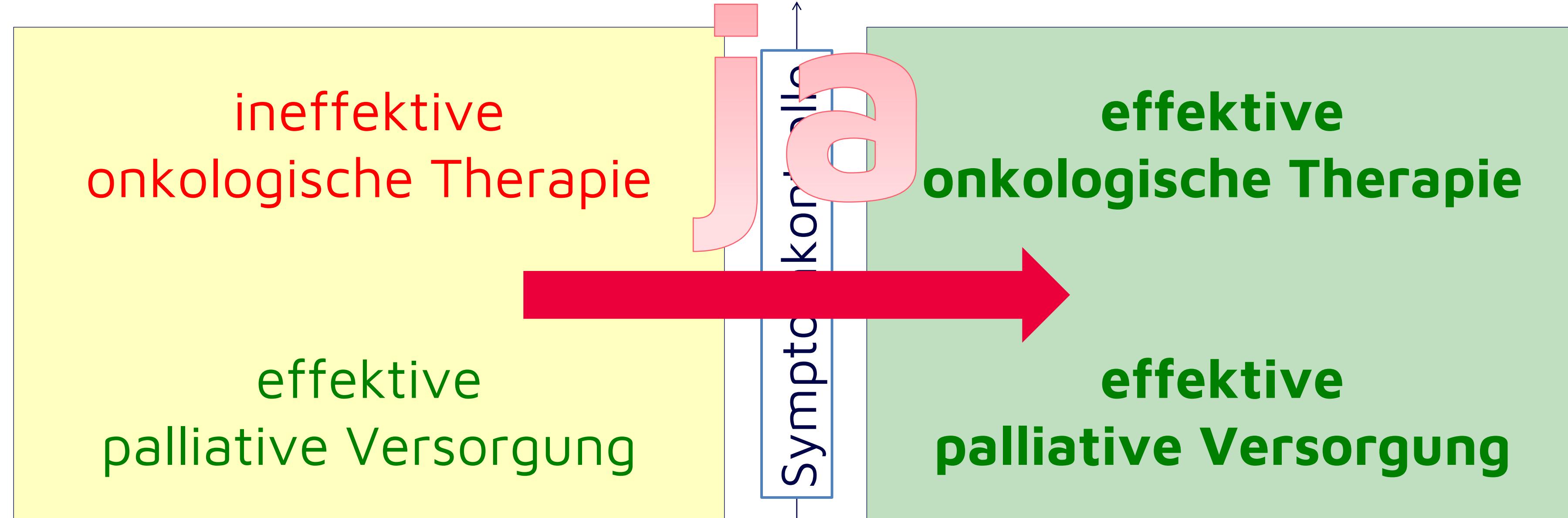
Molekulare Target-Therapie



Immun-Therapie

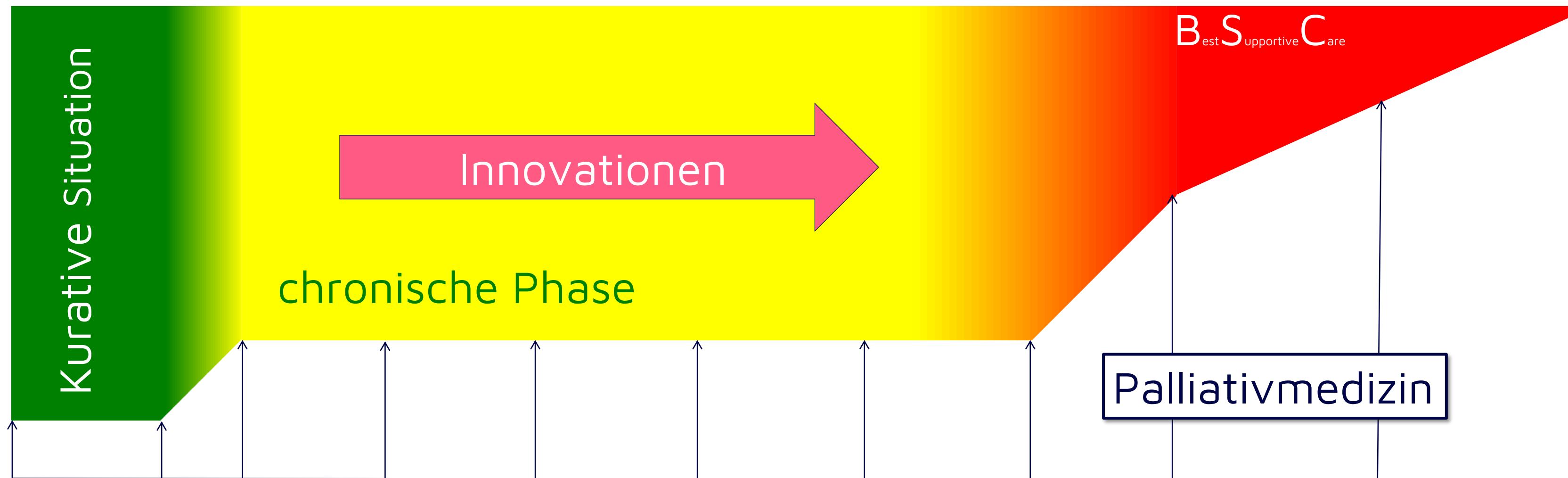
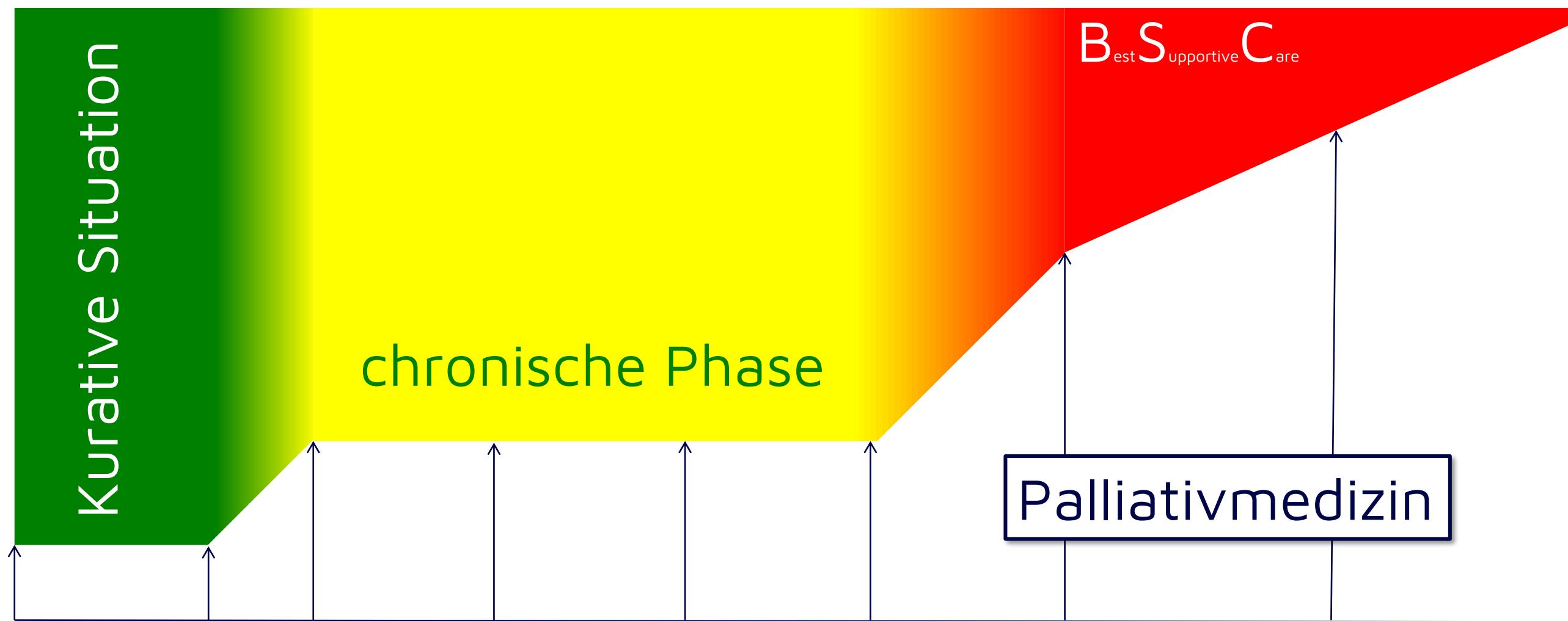
2010 | 2015





Lebenszeitverlängerung







“Go around and see what is being done and then see how your own circumstances can produce another version; there is need for diversity in this field.”

Dame Cicely Saunders, Founder
St. Christopher's Hospice

1918-2005

1967: St. Christopher's-Hospit

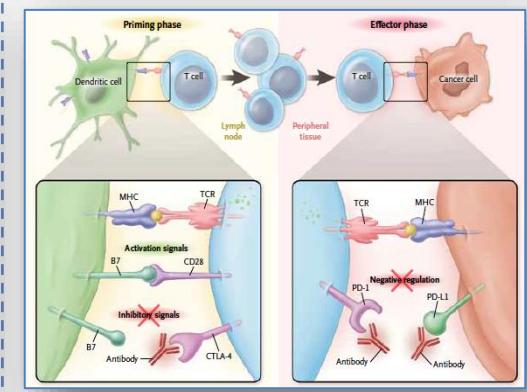
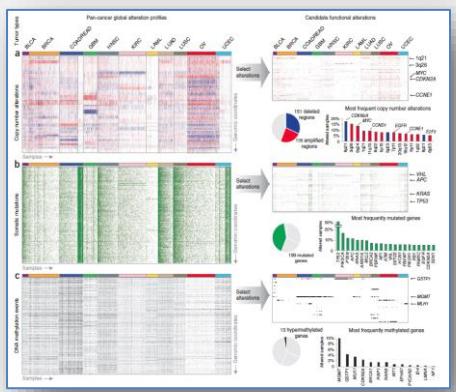
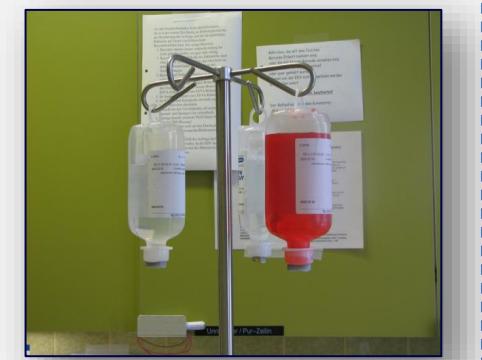
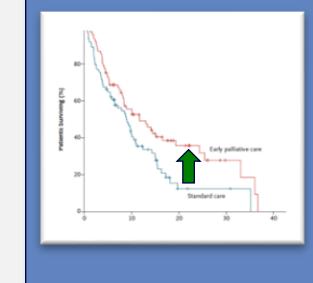
Symptomkontrolle

1983: 1. Deutsche Palliativstation
in Köln

2005

Integration

Lebens- erwartung



Immun-Therapie

Molekulare Target-Therapie

Konventionelle Therapie

2005

2010

2015

Parikh et al. NEJM 2010;369:2347-51

Early Palliative Care

Life-prolonging or curative treatment

Diagnosi

Death

Reaktion

Antizipation

Antizipation statt Reaktion

Reaktion

Antizipation

Gomez et al. JCO 2015;22:1438-46



Vielen Dank



Aus Liebe zum Leben