



ukb universitäts
klinikum bonn

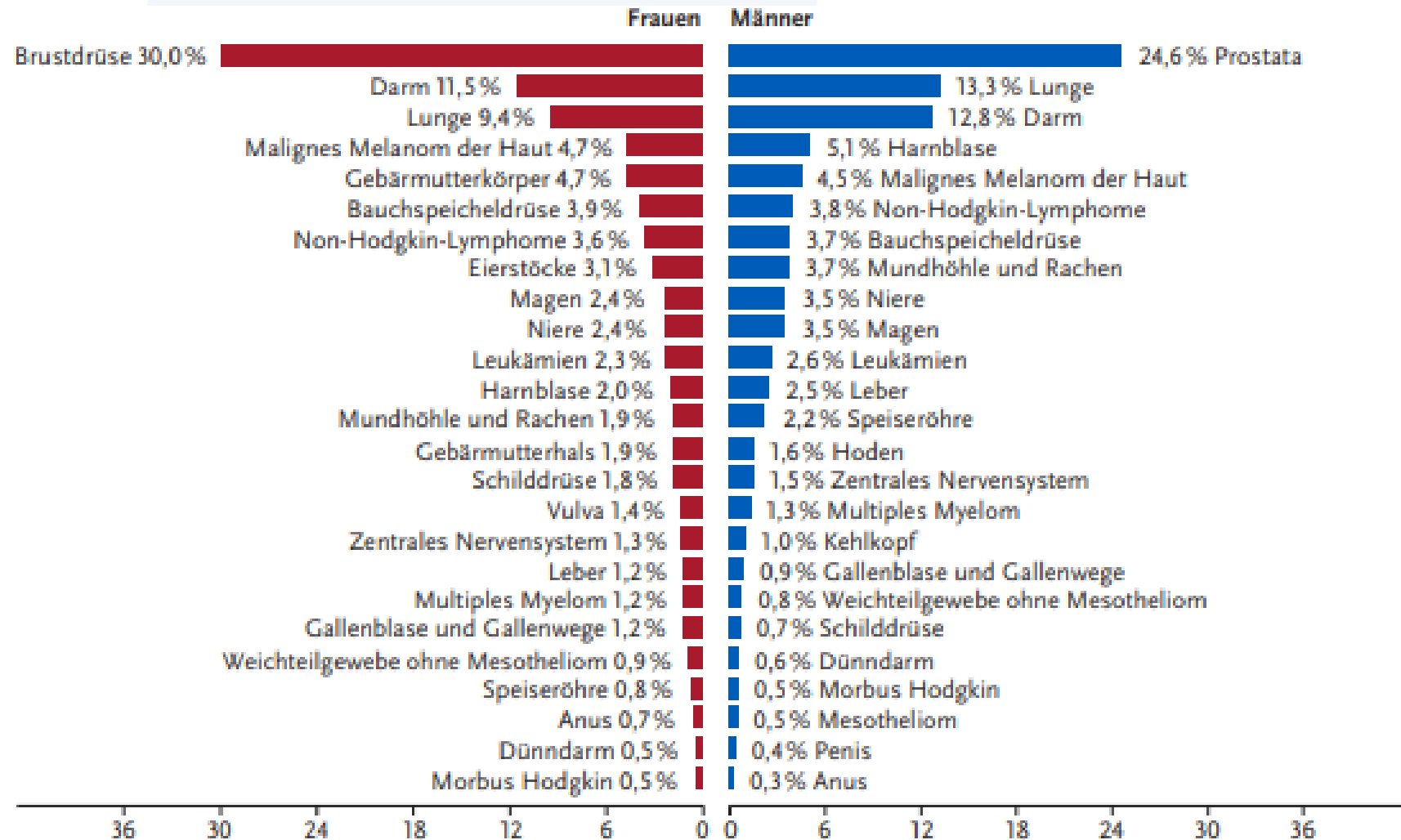
Update Mammakarzinom - Onkotreff

Neue zugelassene Medikamente und Therapieabläufe

Alina Abramian, 07.09.2022

Krebsneuerkrankungen¹ in Deutschland

Anteile der häufigsten Tumorlokalisationen (in %)



¹Ohne nicht-melanotischen Hautkrebs
Krebs in Deutschland 2017/2018– www.krebsdaten.de

Brustchirurgie / Senologie (gyn. Onkologie)

Brustschwester

ggf. Plastisch Chirurgie

Pathologie

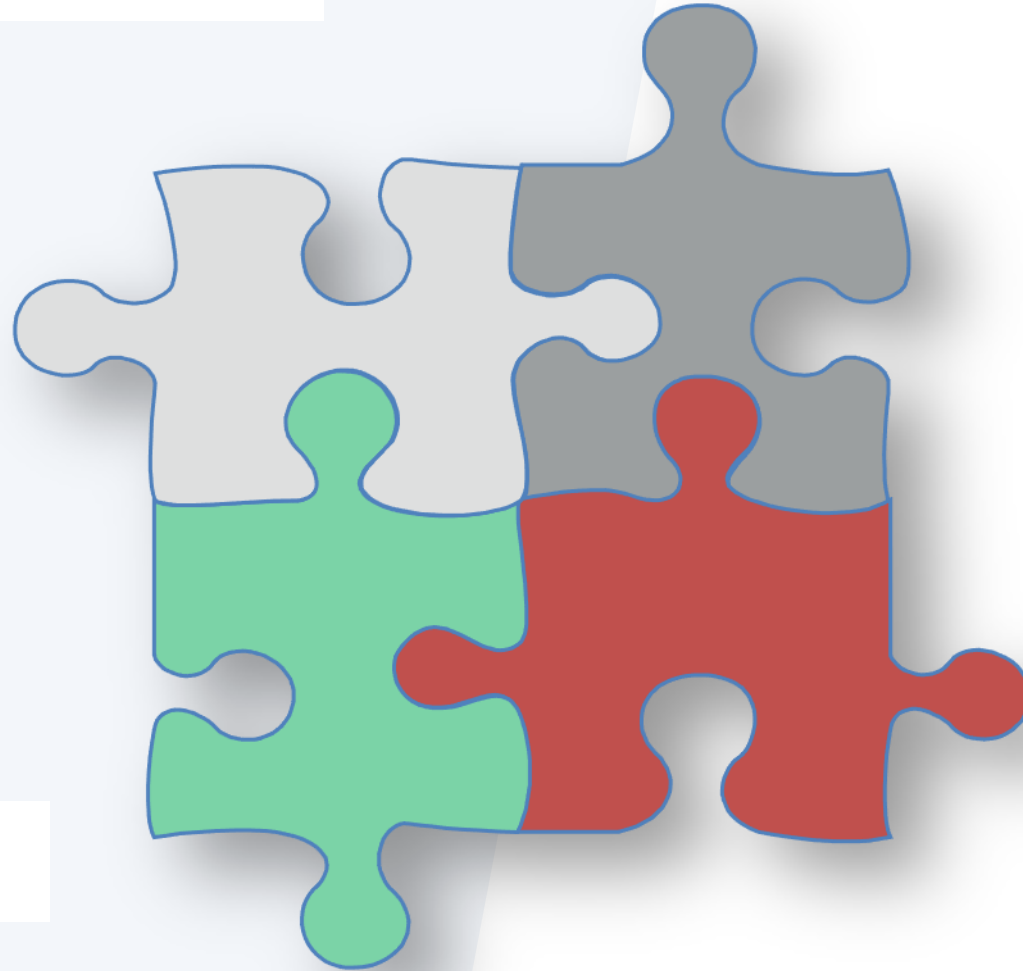


Radiologische Diagnostik

Nuklearmedizin

Strahlentherapie

ggf. Orthopädie / Neurochirurgie

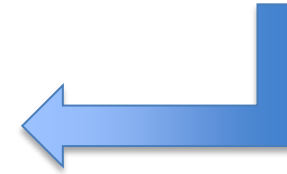


Psychoonkologie

Niedergelassene Kolleg*innen

Selbsthilfegruppen

Seelsorge



Internistische Onkologie

Humangenetik

Palliativmedizin

Sanitätshaus / Reha



Ein Brustzentrum lebt von der interdisziplinären Zusammenarbeit



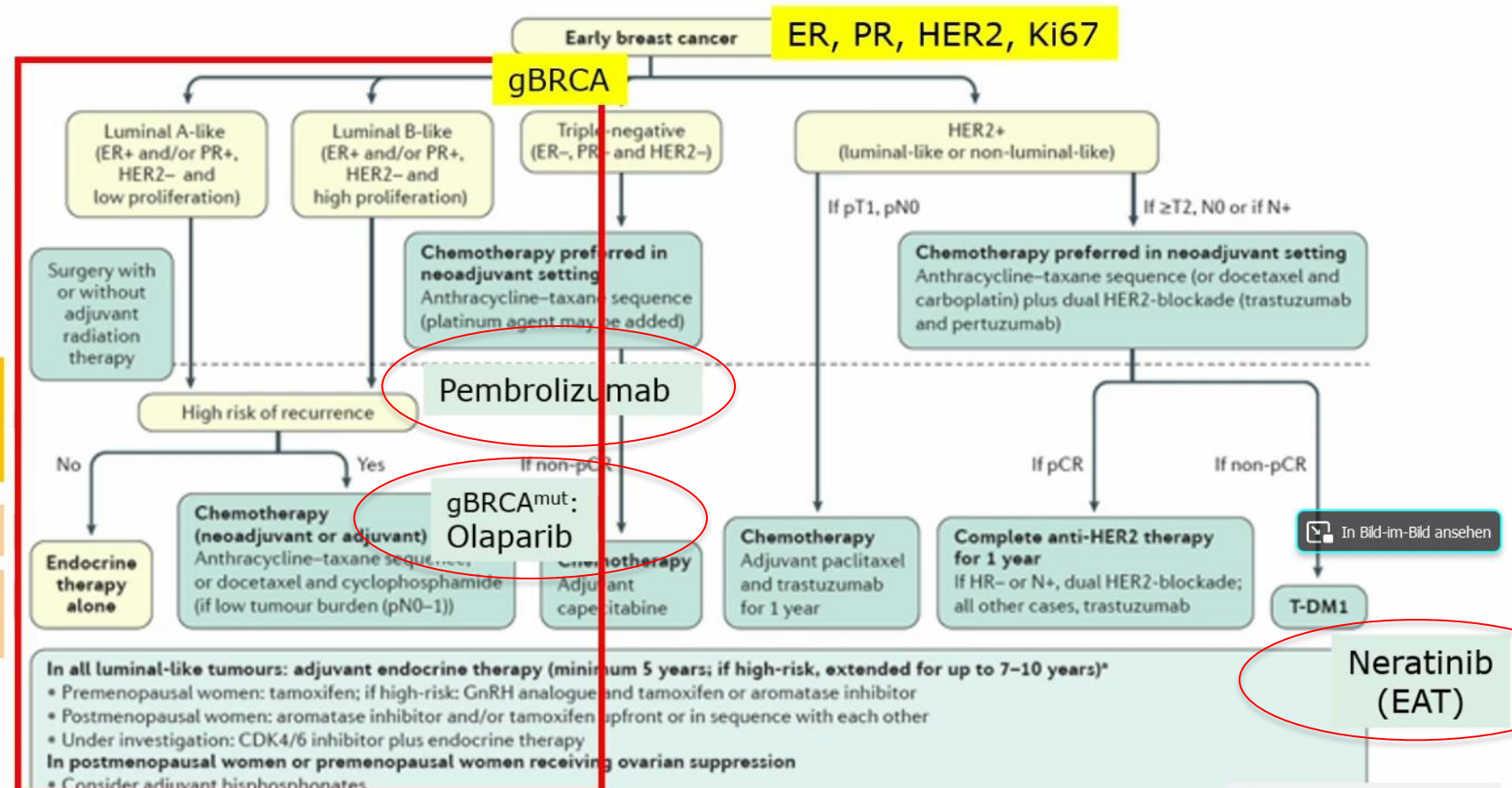
Therapiekonzepte und therapierelevante Biomarker¹

Genexpressionstests
Endokrines Ansprechen
($Ki67_{post} \leq 10\%$)

Wer ist durch ET genug
geschützt - wer braucht
zusätzlich Chemotherapie?

Welche ET ist optimal ?

Wer benötigt mehr als Chemo-
und endokrine Therapie (ET) ?



Neratinib

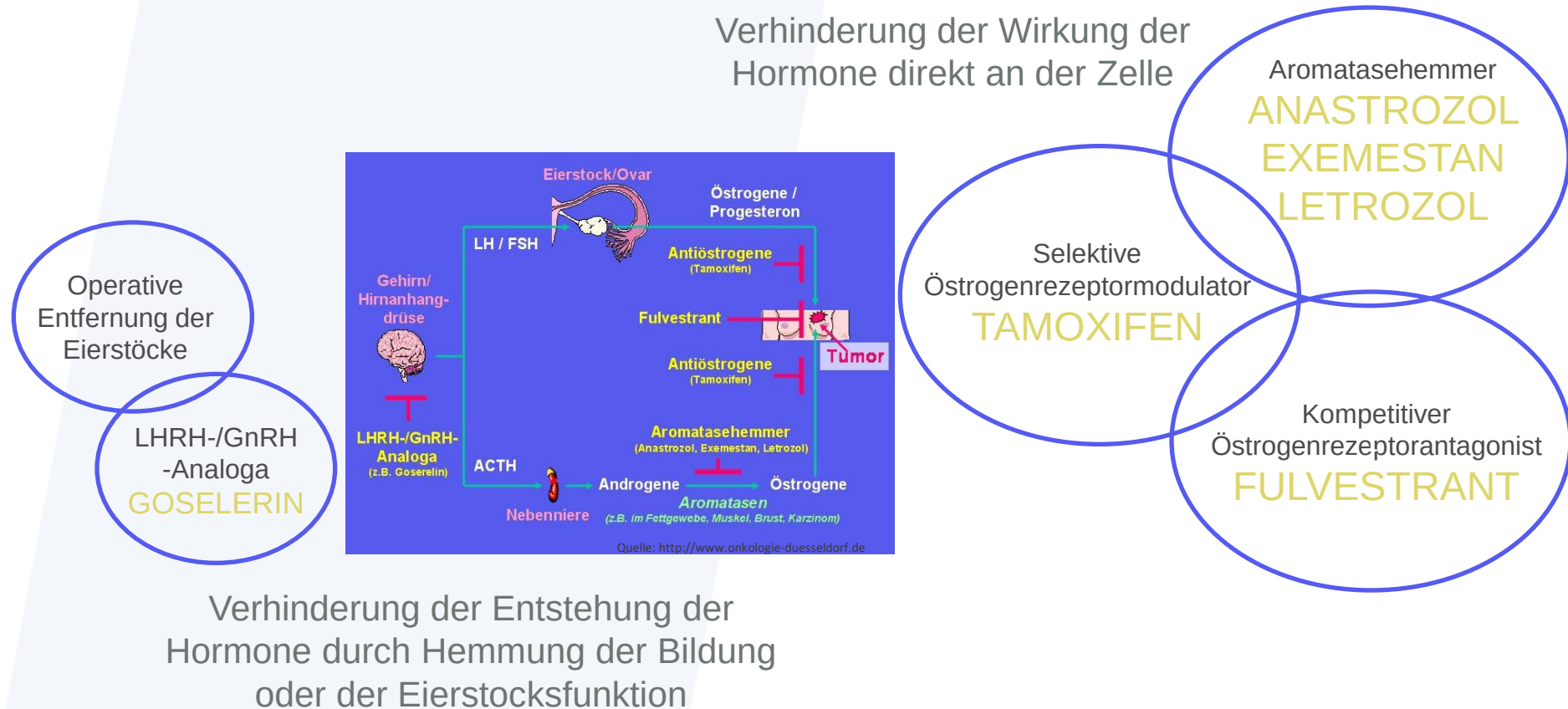
Olaparib

Abemaciclib

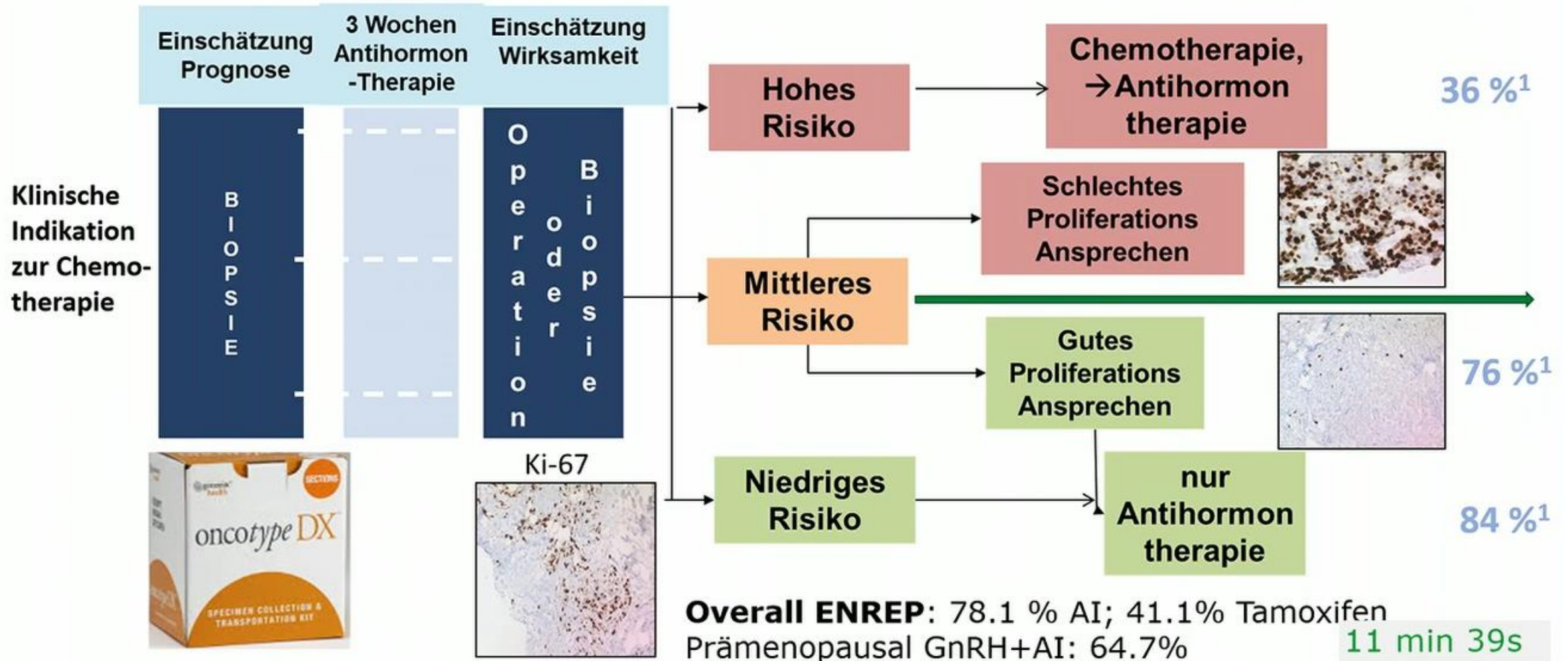
Pembrolizumab

Trastuzumab Deruxtecan

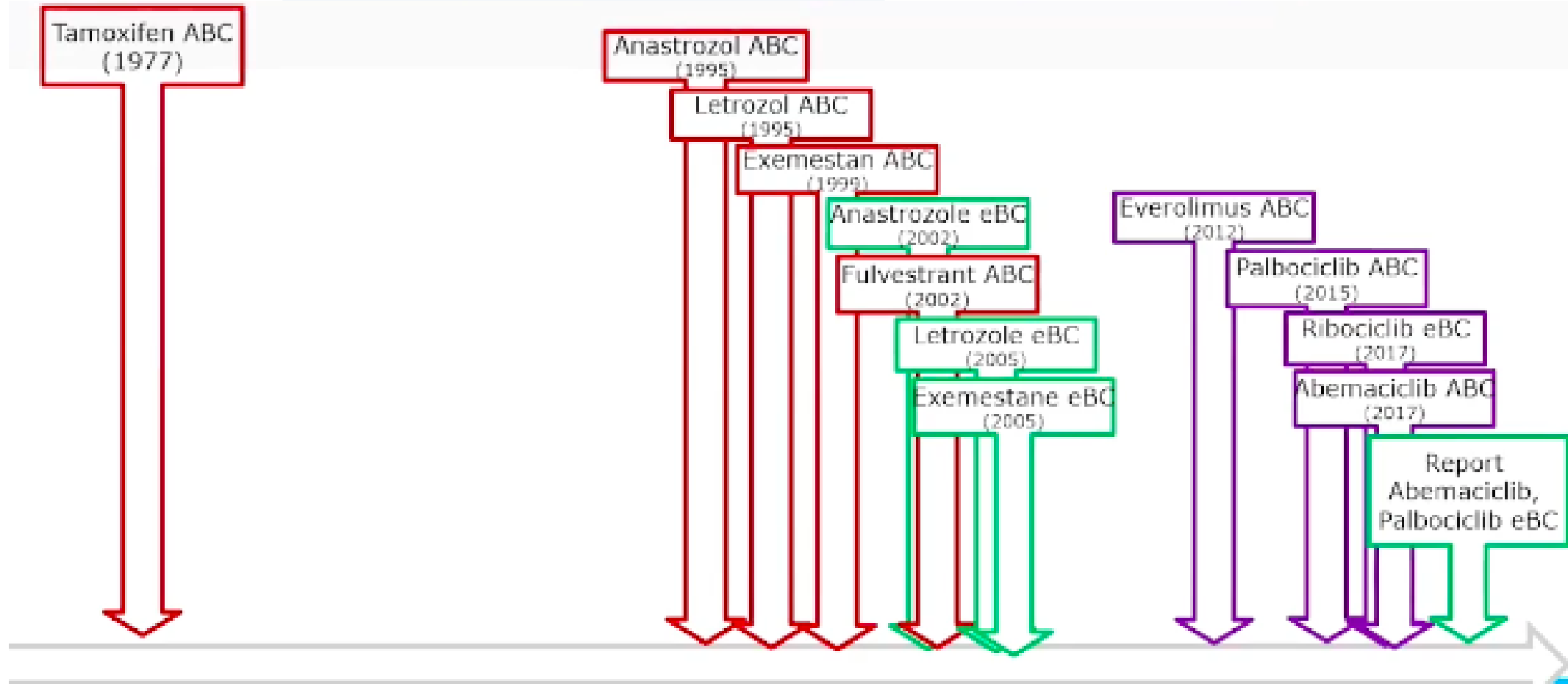
Östrogenentstehung im Körper und Ihre Hemmung



Neoadjuvante endokrine Therapie



¹Harbeck et al, SABCS 2020; Nitz et al, JCO 2022



Wann?

- ≥ 4 positive Lymphknoten oder
- 1-3 paLN und mindestens eines der Kriterien:
 - ≥ 5 cm Tumorgroße oder G3

Funktioniert das Konzept auch in der adjuvanten Situation?

Adjuvant/postneoadjuvant treatment with CDK 4/6

	MonarchE	PALLAS	PENELOPE ^B
N	5,637	5,600	1,250
CDK4/6i	Abemaciclib	Palbociclib	Palbociclib
% of pts. with NACT	37%	n.r.	100%
Duration of CDK4/6i treatment	24 mths	24 mths	12 mths
Follow-up	27.1 mths	24 mths	43 mths
Discontinuation rate	28%	42%	20%
Discontinuation rate due to AE _{CDKi}	17 %	27 %	5 %
IDFS-HR (95%-CI)	0.70 (0.59-0.82) p<0.0001	0.96 (0.81-1.14) p=0.65	0.93 (0.74-1.16) p=0.525
2-yr IDFS	92.7% vs. 90.0%	n.r.	88% vs. 78%
3-yr IDFS	88.8% vs. 83.4%	88% vs. 89%	81% vs. 78%
4-yr IDFS	n.r.	84.2% vs. 84.5%	73% vs. 72%

AGO: Endokrine Therapie nach Menopausenstatus

Endokrine Therapie + Abemaciclib (high risk gemäß MonarchE)

1a **A** **++**
1b **B** **+**

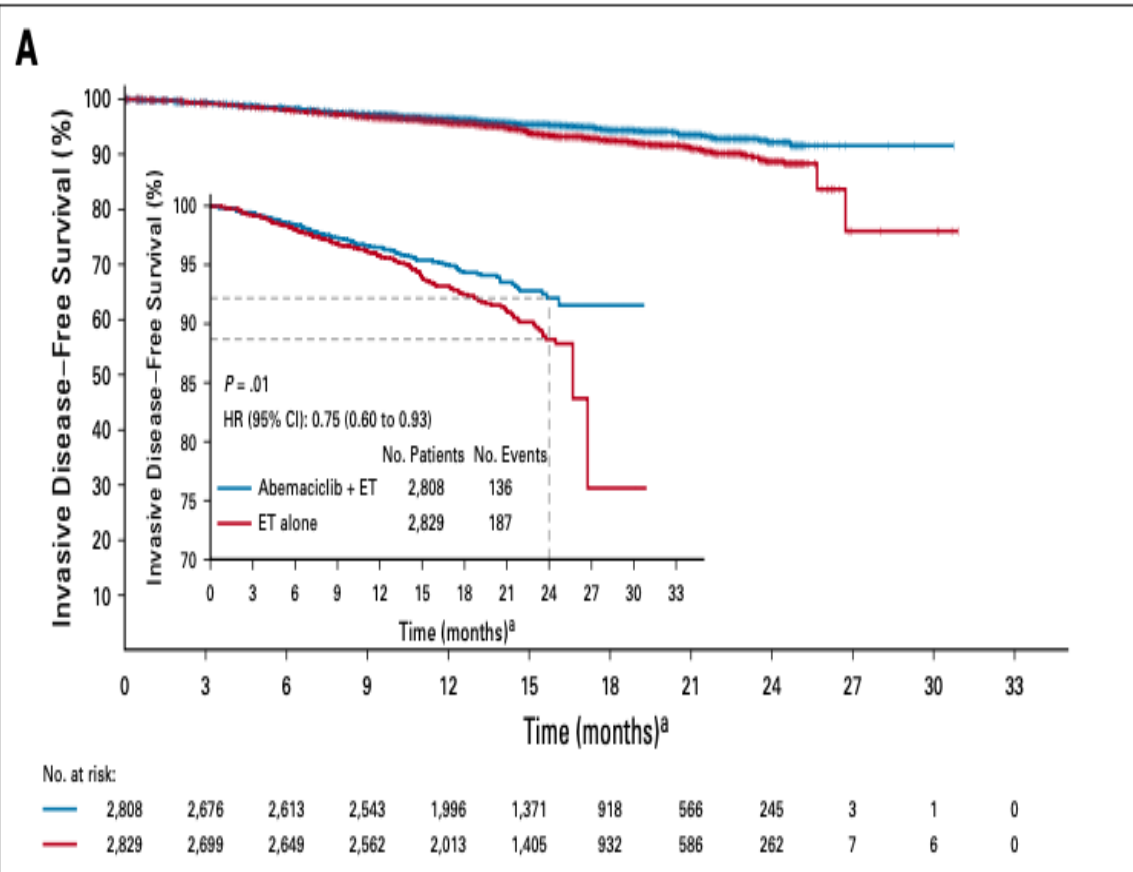
Sledge GW: JAM. 0;
Gnant M: JCO 2022;
Loibl S: JCO 2021;39

Abemaciclib Combined With Endocrine Therapy, for the Adjuvant Treatment of HR+, HER2–, Node-Positive, High-Risk, Early Breast Cancer (monarchE)



Stephen R. D. Johnston, MD, PhD¹; Nadia Harbeck, MD, PhD²; Roberto Hegg, MD, PhD³; Masakazu Toi, MD, PhD⁴; Miguel Martin, MD, PhD⁵; Zhi Min Shao, MD⁶; Qing Yuan Zhang, MD, PhD⁷; Jorge Luis Martinez Rodriguez, MD⁸; Mario Campone, MD, PhD⁹; Erika Hamilton, MD¹⁰; Joohyuk Sohn, MD, PhD¹¹; Valentina Guarneri, MD, PhD¹²; Morihito Okada, MD, PhD¹³; Frances Boyle, MD, MBBS, PhD¹⁴; Patrick Neven, MD, PhD¹⁵; Javier Cortés, MD, PhD¹⁶; Jens Huober, MD¹⁷; Andrew Wardley, MD, MBChB¹⁸; Sara M. Tolaney, MD, MPH¹⁹; Irfan Cicin, MD²⁰; Ian C. Smith, MD^{21,22}; Martin Frenzel, PhD²²; Desirée Headley, MSc²²; Ran Wei, PhD²²; Belen San Antonio, PhD²²; Maarten Hulstijn, PhD²²; Joanne Cox, MD²²; Joyce O'Shaughnessy, MD²³; and Priya Rastogi, MD²⁴; on behalf of the monarchE Committee Members and Investigators

Mit Abemaciclib scheint das Konzept zu funktionieren



B

Subgroup Analyzed ^b	Abemaciclib + ET		ET Alone		Favors Abemaciclib + ET		Favors ET Alone		HR (95% CI) ^c
	No.	Events	No.	Events					
Overall	2,808	136	2,829	187					0.75 (0.60 to 0.93)
Region									
North America/Europe	1,470	62	1,479	89					0.72 (0.52 to 1.00)
Asia	574	28	582	30					0.93 (0.55 to 1.55)
Other	764	46	768	68					0.69 (0.48 to 1.00)
Menopausal status									
Premenopausal	1,221	46	1,232	72					0.63 (0.44 to 0.92)
Postmenopausal	1,587	90	1,597	115					0.82 (0.62 to 1.08)
Prior chemotherapy									
Neoadjuvant	1,039	76	1,048	111					0.69 (0.52 to 0.93)
Adjuvant	1,642	52	1,647	69					0.77 (0.54 to 1.10)
Age, years									
< 65	2,371	111	2,416	164					0.69 (0.54 to 0.88)
≥ 65	437	25	413	23					1.11 (0.63 to 1.96)
Race									
White	1,947	93	1,978	138					0.69 (0.53 to 0.90)
Asian	675	31	669	37					0.82 (0.51 to 1.33)
All others	146	11	140	11					1.04 (0.45 to 2.40)
Baseline ECOG PS									
0	2,405	110	2,369	159					0.69 (0.54 to 0.88)
1	401	26	455	27					1.14 (0.66 to 1.95)
Primary tumor size, cm									
< 2	780	31	765	48					0.63 (0.40 to 0.99)
2-5	1,369	67	1,419	86					0.83 (0.60 to 1.14)
≥ 5	610	35	612	52					0.68 (0.44 to 1.04)
No. of positive lymph nodes									
1-3	1,119	42	1,143	60					0.71 (0.48 to 1.06)
4-9	1,105	47	1,125	72					0.69 (0.48 to 0.99)
10	575	45	554	55					0.79 (0.53 to 1.17)
Histologic grade									
G1	209	8	215	6					1.35 (0.47 to 3.89)
G2	1,373	55	1,395	81					0.71 (0.50 to 0.99)
G3	1,090	67	1,066	88					0.76 (0.55 to 1.04)
Progesterone receptor									
Negative	298	30	294	38					0.81 (0.50 to 1.30)
Positive	2,421	104	2,453	146					0.73 (0.57 to 0.94)
Tumor stage									
IIA	323	11	353	16					0.73 (0.34 to 1.57)
IIB	389	17	387	19					0.92 (0.48 to 1.78)
IIIA	1,027	41	1,024	61					0.68 (0.46 to 1.02)
IIIC	950	59	962	84					0.71 (0.51 to 0.99)

**Appetitverlust,
Erbrechen
Übelkeit**

Durchfälle

**Leukopenie, Anämie,
Neutropenie**

Alopezie

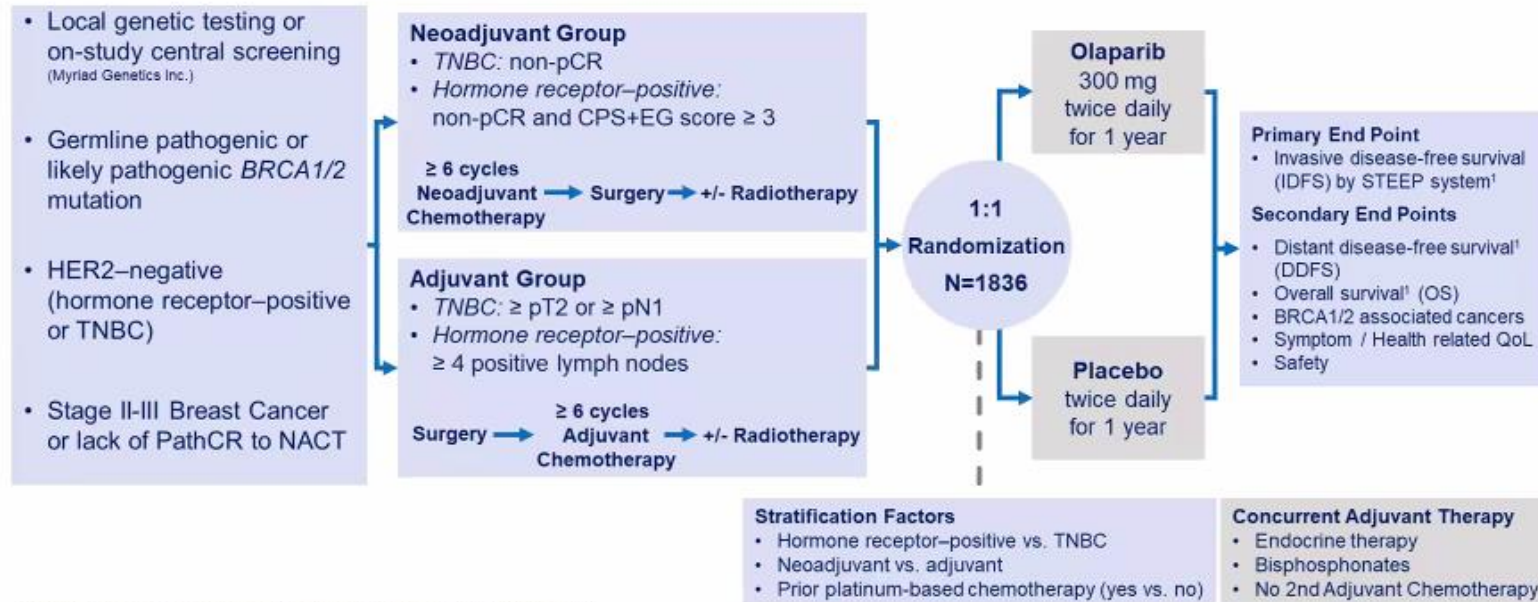
Fatigue

LBA1 OlympiA: A phase III, multicenter, randomized, placebo-controlled trial of adjuvant olaparib after (neo)adjuvant chemotherapy in patients with germline BRCA1/2 mutations and high-risk HER2-negative early breast cancer.

Andrew Tutt *et al.*, London, UK.

- PARP-Inhibitoren zielen auf Malignome mit homologen Rekombinationsreparaturdefekten durch ihren Wirkmechanismus synthetische Letalität ab
- Olaparib ist bislang für metastasierten Her2-negativen Brustkrebs mit BRCA1/2-Keimbahnmutation zugelassen
- Trotz adäquater Systemtherapie können die Rezidivraten bei dieser Population hoch sein
- → erfordert neue Behandlungsoptionen

OlympiA: Trial schema



Hormone receptor +ve defined as ER and/or PgR positive (IHC staining $\geq 1\%$)

Triple Negative defined as ER and PgR negative (IHC staining $< 1\%$)

¹Hudis CA, J Clin Oncol 2007

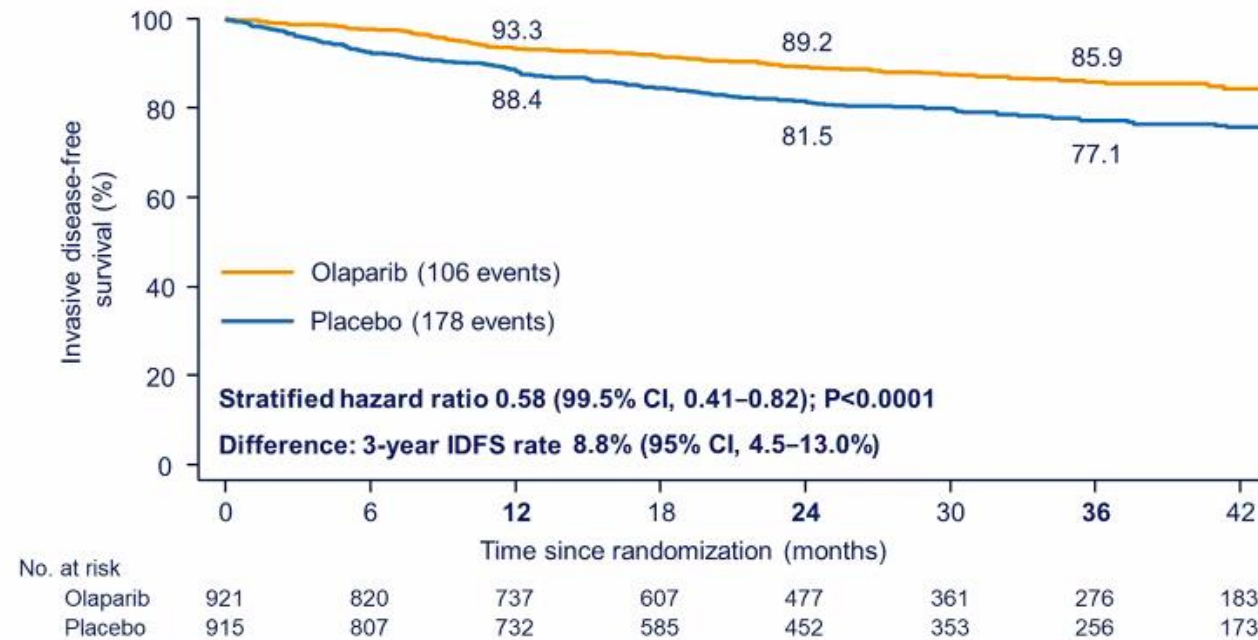
Presented By: Andrew Tutt MB ChB PhD FMedSci
The Institute of Cancer Research and Kings College London

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OlympiA: Invasive disease-free survival (ITT)



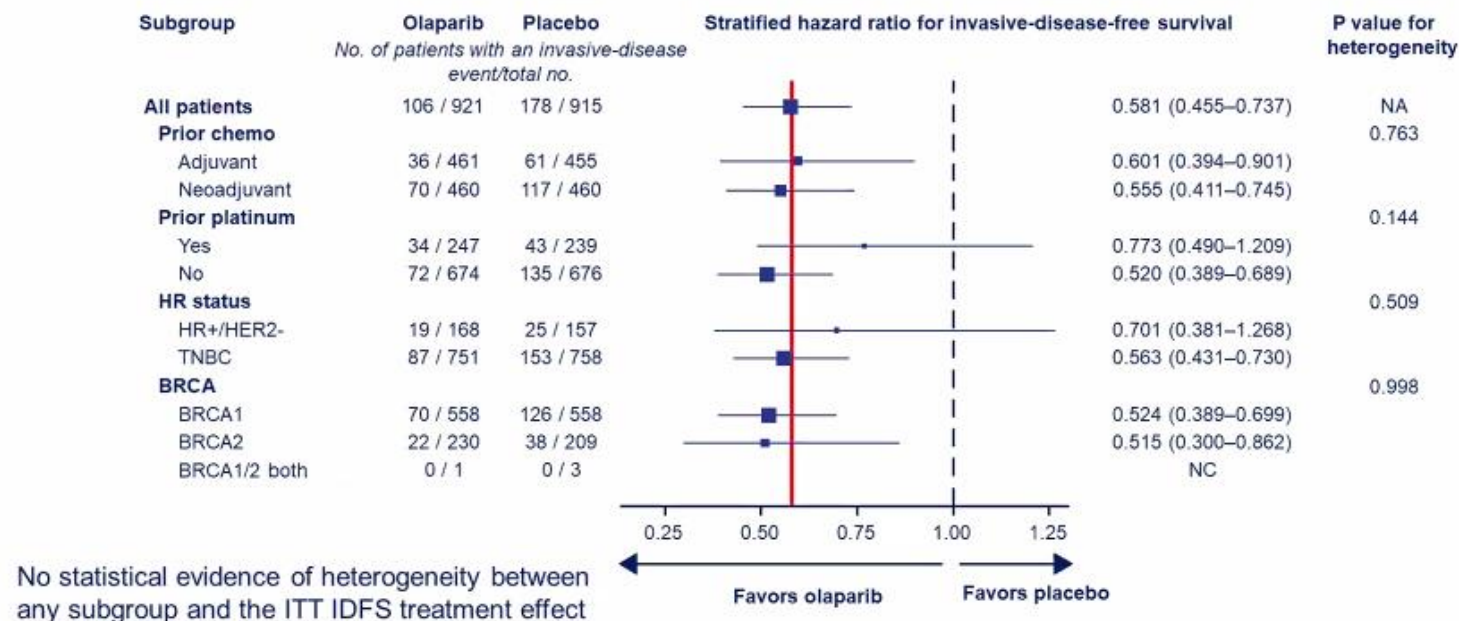
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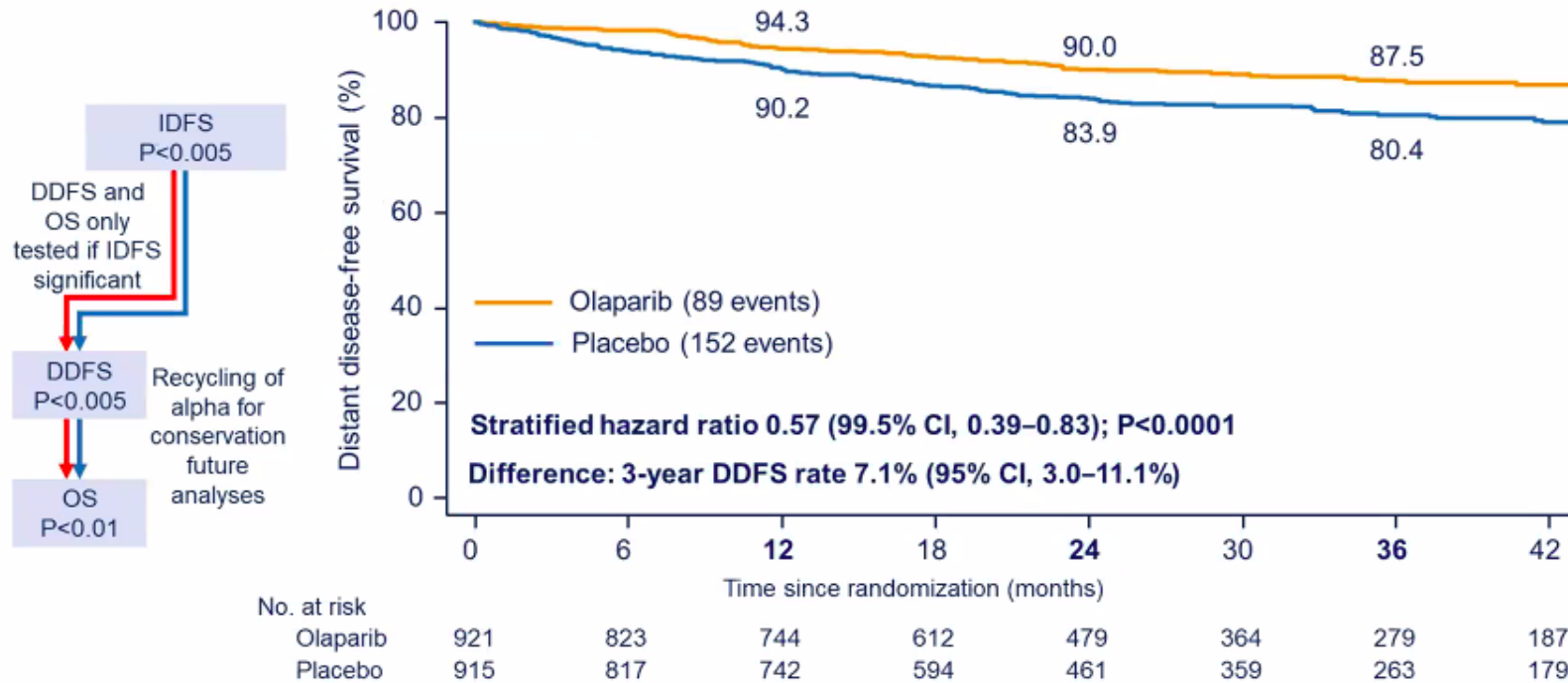
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OlympiA: Subgroup analysis invasive disease-free survival



OlympiA: Distant disease-free survival



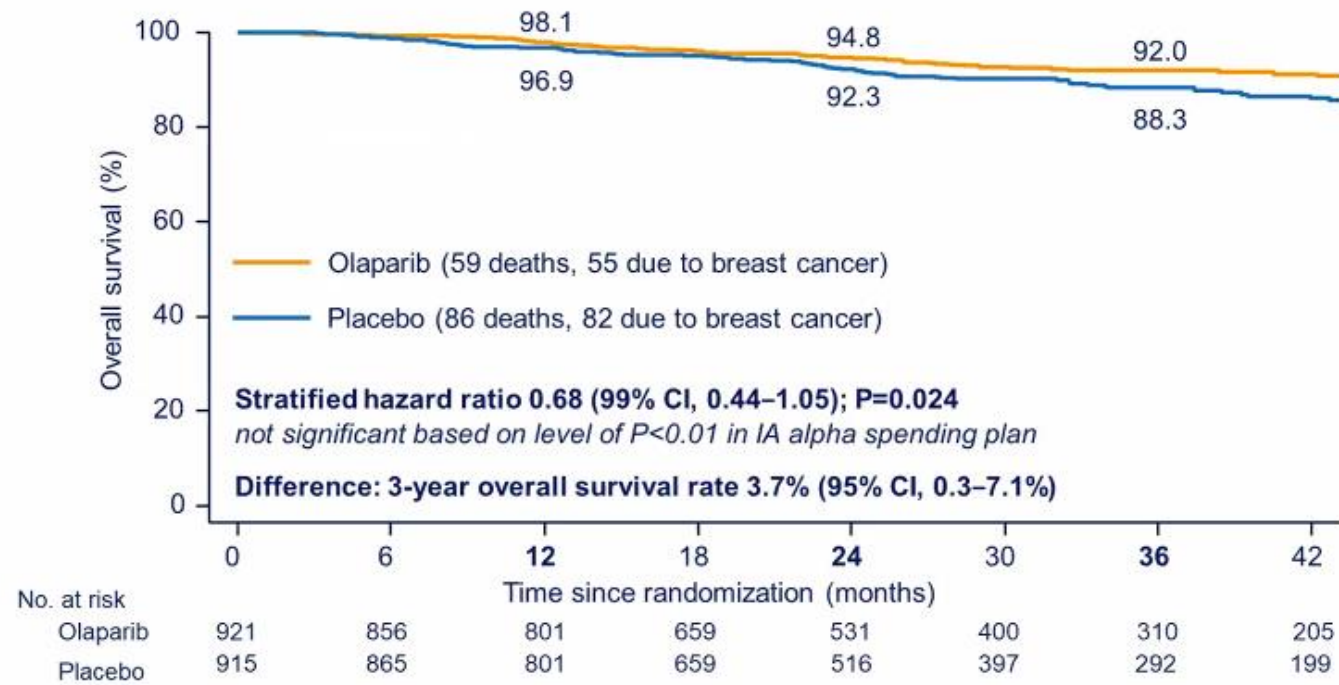
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OlympiA: Overall survival



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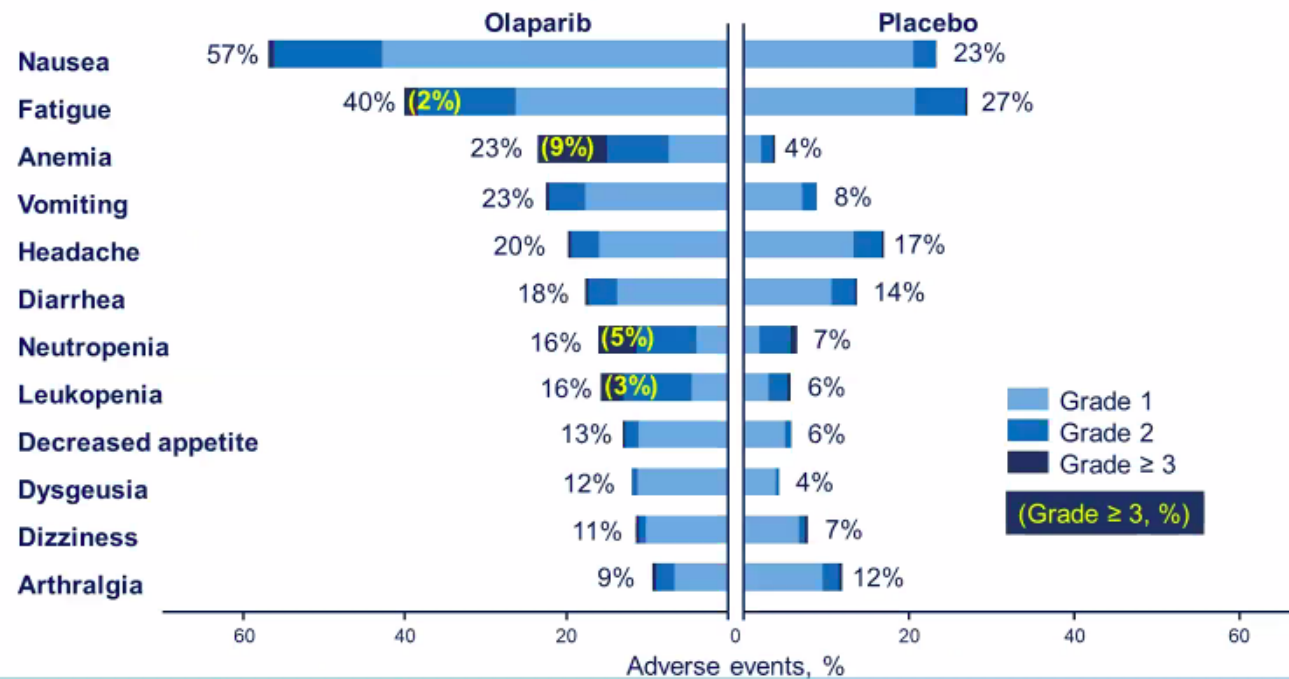
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Mit welchen NW muss man rechnen?

17

OlympiA: Adverse events of any grade $\geq 10\%$



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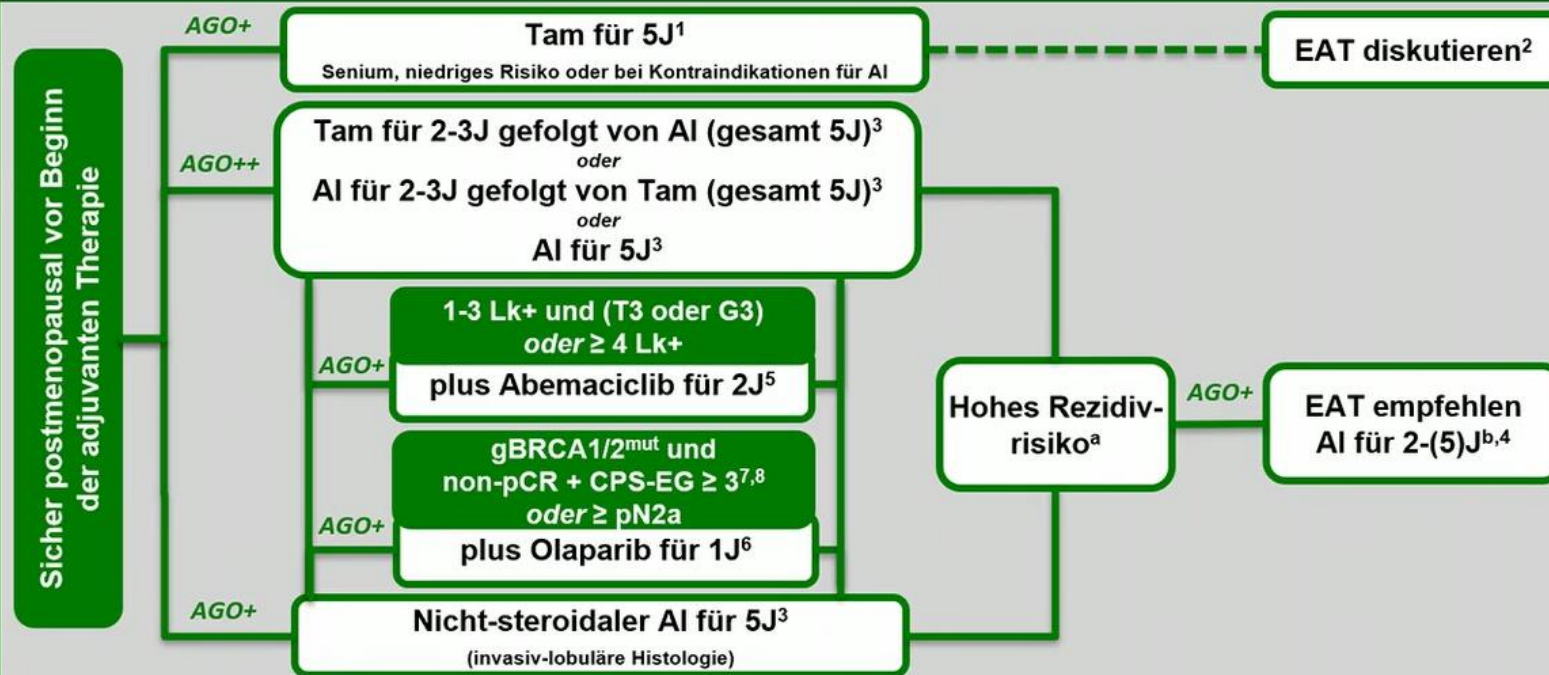
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Guidelines Breast
Version 2022.1D

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**FORSCHEN
LEHREN
HEILEN**

Adjuvante endokrin-basierte Therapie in der Postmenopause



AI, Aromatase-inhibitor; CPS-EG, Clinical-Pathological Stage + Estrogen receptor status and Grade Score; EAT, erweiterte adjuvante Therapie; gBRCA1/2 Mutation; J, Jahre; Lk, Lymphknoten; Tam, Tamoxifen; ^a Entscheidungskriterien können sein: Z. n. Chemotherapie (höherer Lymphknotenstatus, T2/T3 Tumoren, hohes Rückfallrisiko nach immunohistochemischen Kriterien oder Multigen-Assays, erhöhter CTSS-Score; ^b kein Einfluss auf das Gesamtüberleben

06 min 21s



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**FORSCHEN
LEHREN
HEILEN**

Postneoadjuvante Therapie HER2-positiv

pCR

- Low risk: Trastuzumab (bis 12 Mon. komplett)
- High risk (cN+): Trastuzumab + Pertuzumab (bis 12 Mon. komplett)
- Neratinib nach 1 Jahr* Trastuzumab (HR-positiv)*

non-pCR

- T-DM1
- Trastuzumab + Pertuzumab (bis 12 Mon. komplett)
- Zusätzlich nach 1 Jahr (erweiterte adj. Therapie)
 - Neratinib nach Trastuzumab (HR-positiv)*
 - Neratinib nach anderer anti-HER2-Therapie (HR-positiv)*

* kombiniert mit Standard endokriner Therapie

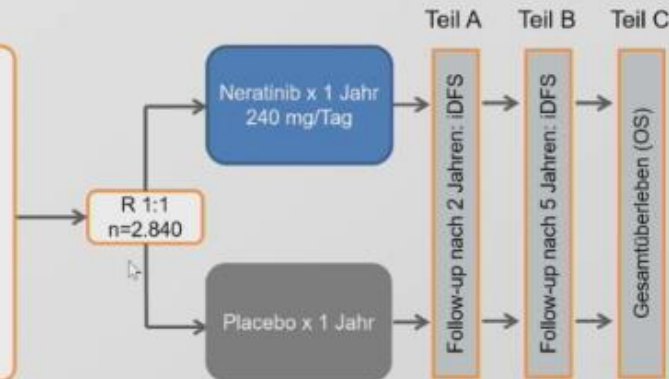
Oxford		
LoE	GR	AGO
2a	C	++
2b	C	+
2b	B	-
1b	B	+
2b	C	+/-
2b	B	+
5	D	+/-

Neratinib after trastuzumab-based adjuvant therapy in HER2-positive breast cancer (ExteNET): 5-year analysis of a randomised, double-blind, placebo-controlled, phase 3 trial

Miguel Martin, Frankie A Holmes, Bent Ejlersen, Suzette Delaloge, Beverly Moy, Hiroji Iwata, Gunter von Minckwitz, Stephen K L Chia, Janine Mansi, Carlos H Barrios, Michael Gnant, Zorica Tomašević, Neelima Denduluri, Robert Šeparović, Erhan Gokmen, Anna Bashford, Manuel Ruiz Borrego, Sung-Bae Kim, Erik Hugger Jakobsen, Audrone Ciceniene, Kenichi Inoue, Friedrich Overkamp, Joan B Heijns, Anne C Armstrong, John S Link, Anil Abraham Joy, Richard Bryce, Alvin Wong, Susan Moran, Bin Yao, Feng Xu, Alan Auerbach, Marc Buyse, Arlene Chan, for the ExteNET Study Group*

ExteNET Studiendesign

- HER2+ Mammakarzinom
 - ICH 3+ oder ISH amplifiziert
 - Vortherapie: adjuvant Trastuzumab + Chemotherapie
 - Lymphknoten +/- oder residual invasive Erkrankung nach neoadjuvanter Therapie
- **Stratifizierungsfaktoren:** Nodalstatus, Hormonrezeptorstatus, Trastuzumab simultan vs. sequenziell



- **Primärer Endpunkt:** invasives krankheitsfreies Überleben (iDFS)
- **Sekundäre Endpunkte:** DFS-DCIS, Zeit bis zum distanten Rezidiv, distantes DFS, ZNS-Rezidive, Gesamtüberleben (OS), Sicherheit
- **Weitere Analysen:** Biomarker, Gesundheitsberichtserstattung (FACT-B, EQ-5D)

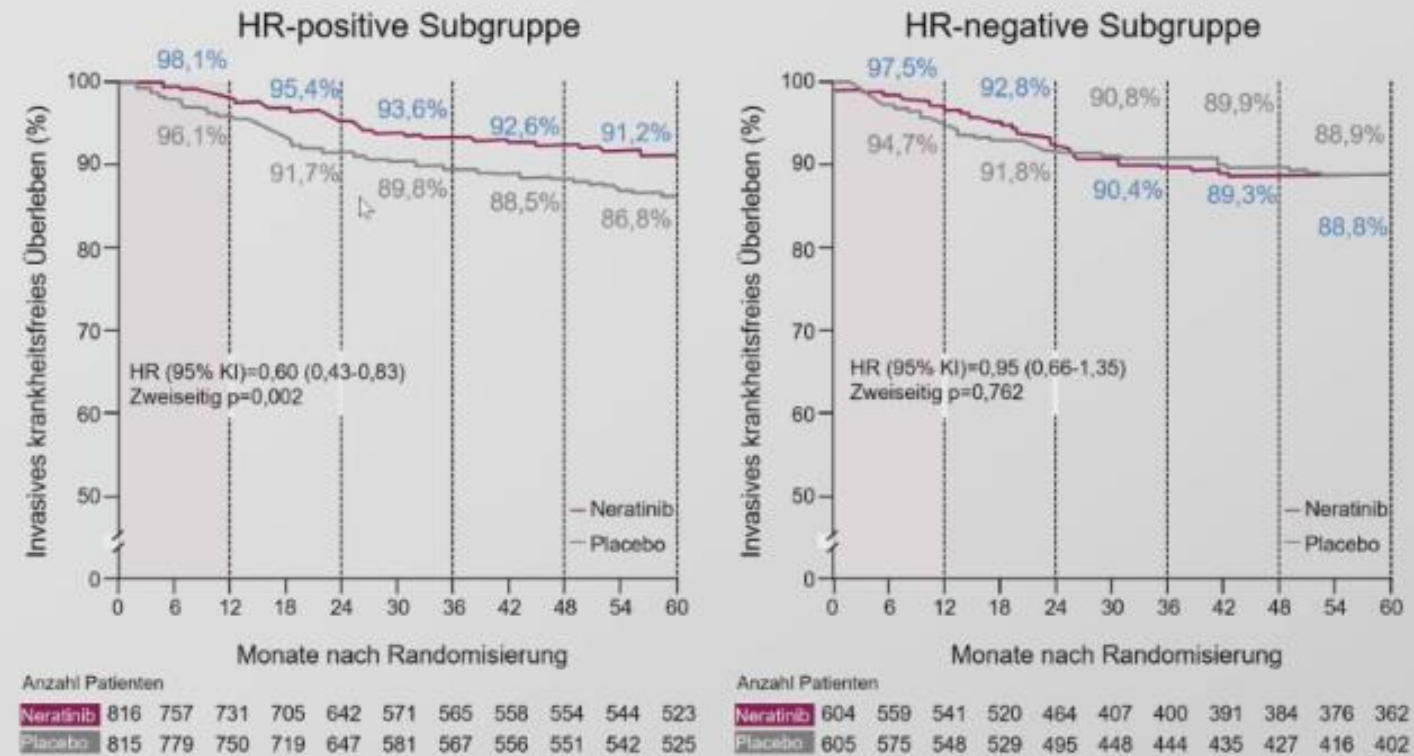
Patienten mit HR-positiven Tumoren erhielten eine endokrine adjuvante Therapie gemäß der lokalen Praxis

FACT-B: Functional Assessment of Cancer Therapy – Breast; EQ-5D: Fragebogen zur Lebensqualität

Martin M et al. Oral presentation #1490

ExteNET - 5 Jahres Follow up

iDFS nach Hormonrezeptorstatus



HR: Hazard Ratio; KI: Konfidenzintervall

Intention-to-treat Gruppe, Cut-Off-Date: 1. März 2017

Martin M et al. Oral presentation #1490

Durchfall

Fatigue

Muskelkrämpfe

Hautausschläge

Schwindel, Dehydratation

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*

DESTINY-Breast03: Study Design

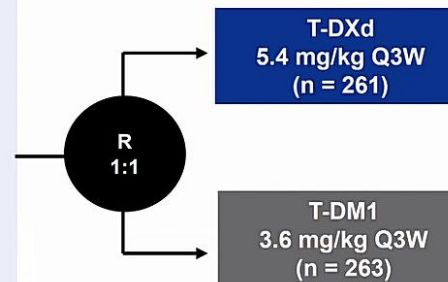
An open-label, multicenter, phase 3 study (NCT03529110)

Patients

- Unresectable or metastatic HER2 positive^a breast cancer
- Previously treated with trastuzumab and taxane in advanced/metastatic setting^b
- Could have clinically stable, treated brain metastases

Stratification factors

- Hormone receptor status
- Prior treatment with pertuzumab
- History of visceral disease



Primary endpoint

- PFS (BICR)

Key secondary endpoint

- OS

Secondary endpoints

- ORR (BICR and investigator)
- DOR (BICR)
- PFS (investigator)
- Safety

Interim analysis for PFS (data cutoff: May 21, 2021)

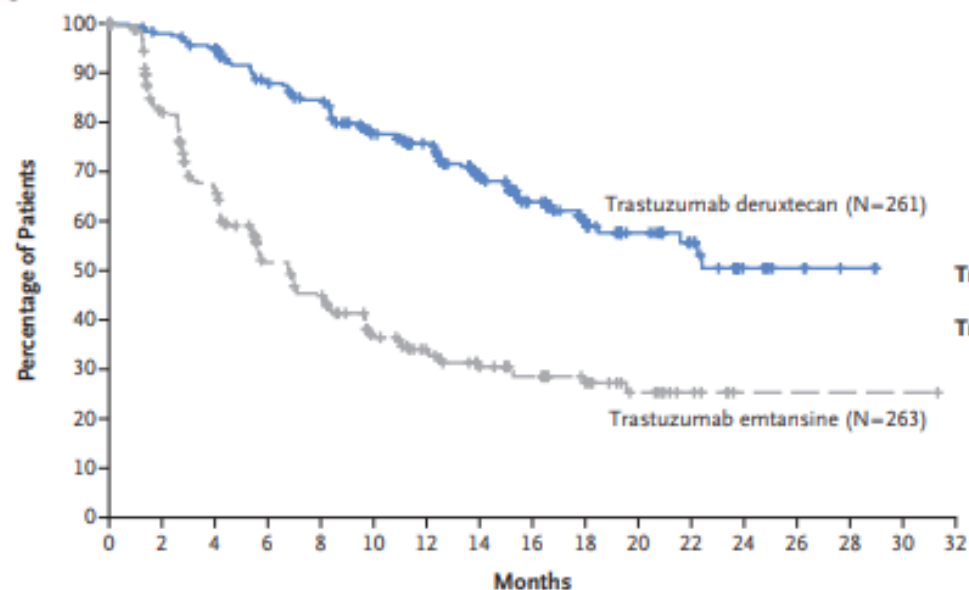
- Efficacy boundary for superiority: $P < 0.000204$ (based on 245 events)
- IDMC recommendation to unblind study (July 30, 2021)

Key secondary endpoint, OS: boundary for efficacy: $P < 0.000265$ (based on 86 events)

^aHER2 IHC3+ or IHC2+/ISH+ based on central confirmation. ^bProgression during or <6 months after completing adjuvant therapy involving trastuzumab and taxane. Cortés J et al. Presented at: ESMO Virtual Congress 2021; September 17-21, 2021. Presentation 2525.

Characteristic	Trastuzumab Deruxtecan (N=261)	Trastuzumab Emtansine (N=263)
Hormone-receptor status — no. (%)		
Positive	131 (50.2)	134 (51.0)
Negative	130 (49.8)	129 (49.0)
Stable brain metastases — no. (%)¶	62 (23.8)	52 (19.8)
Visceral disease — no. (%)	184 (70.5)	185 (70.3)
Previous treatment for metastatic breast cancer — no. (%)	240 (92.0)	234 (89.0)
Lines of previous therapy in the context of metastatic disease		
Median number of lines (range)	1 (0–16)	2 (0–14)
Number of lines — no. (%)		
0	2 (0.8)	3 (1.1)
1	130 (49.8)	123 (46.8)
2	56 (21.5)	65 (24.7)
3	35 (13.4)	35 (13.3)
4	15 (5.7)	19 (7.2)
≥5	23 (8.8)	18 (6.8)
Previous cancer therapy — no. (%)**		
Trastuzumab	260 (99.6)	262 (99.6)
Pertuzumab	162 (62.1)	158 (60.1)

A Progression-free Survival



	Median Progression-free Survival (95% CI)	12-Mo Progression-free Survival (95% CI)
	mo	%
Trastuzumab Deruxtecan	NR (18.5–NE)	75.8 (69.8–80.7)
Trastuzumab Emtansine	6.8 (5.6–8.2)	34.1 (27.7–40.5)

Hazard ratio for disease progression or death, 0.28 (95% CI, 0.22–0.37)
P<0.001

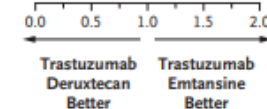
No. at Risk															
Trastuzumab deruxtecan	261	250	240	214	200	168	150	112	79	53	36	25	10	5	2
Trastuzumab emtansine	263	200	155	108	93	65	51	37	29	21	12	6	1	1	0

B Progression-free Survival in Prespecified Subgroups

Subgroup	No. of Patients	No. of Events/No. of Patients	Median Progression-free Survival (95% CI)		Hazard Ratio for Disease Progression or Death (95% CI)	
			mo			
		Trastuzumab deruxtecan	Trastuzumab emtansine	Trastuzumab deruxtecan	Trastuzumab emtansine	
All patients		87/261	158/263	NE (18.5–NE)	6.8 (5.6–8.2)	0.28 (0.22–0.37)
Hormone-receptor status						
Positive	272	46/133	84/139	22.4 (17.7–NE)	6.9 (4.2–9.8)	0.32 (0.22–0.46)
Negative	248	41/126	73/122	NE (18.0–NE)	6.8 (5.4–8.3)	0.30 (0.20–0.44)
Previous pertuzumab treatment						
Yes	320	57/162	98/158	NE (18.5–NE)	6.8 (5.4–8.3)	0.30 (0.22–0.43)
No	204	30/99	60/105	NE (16.5–NE)	7.0 (4.2–9.7)	0.30 (0.19–0.47)
Visceral disease						
Yes	384	72/195	123/189	22.2 (16.5–NE)	5.7 (4.2–7.0)	0.28 (0.21–0.38)
No	140	15/66	35/74	NE (NE–NE)	11.3 (6.8–NE)	0.32 (0.17–0.58)
Lines of previous therapy						
0 or 1	258	46/132	75/126	22.4 (17.9–NE)	8.0 (5.7–9.7)	0.33 (0.23–0.48)
≥2	266	41/129	83/137	NE (16.8–NE)	5.6 (4.2–7.1)	0.28 (0.19–0.41)
Stable brain metastases						
Yes	114	31/62	31/52	15.0 (12.6–22.2)	5.7 (2.9–7.1)	0.38 (0.23–0.64)
No	410	56/199	127/211	NE (22.4–NE)	7.0 (5.5–9.7)	0.27 (0.19–0.37)

0.00.51.01.52.0

Trastuzumab Deruxtecan BetterTrastuzumab Emtansine Better



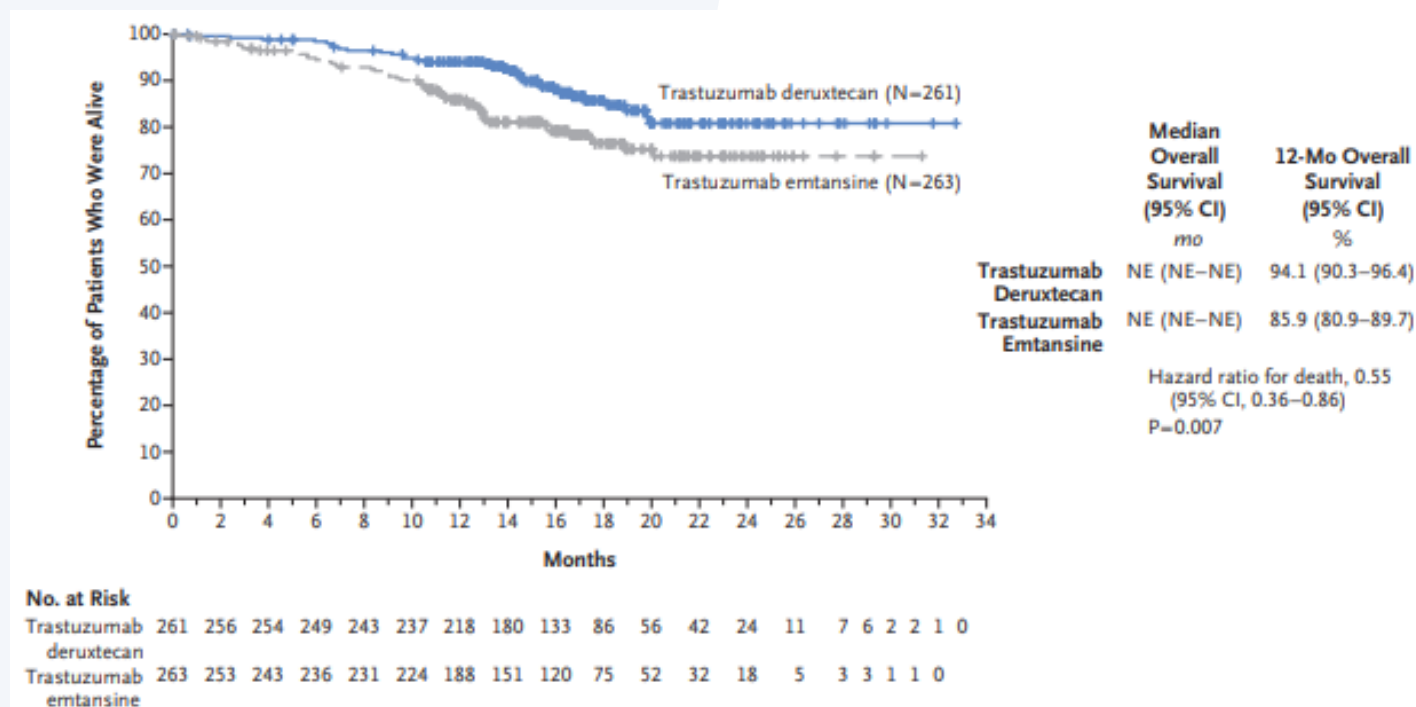


Figure 2. First Interim Analysis of Overall Survival.

Shown are Kaplan–Meier estimates of overall survival at 12 months in the intention-to-treat population, stratified according to hormone-receptor status, previous treatment with pertuzumab, and history of visceral disease. At the time of the data cutoff date of May 21, 2021, a total of 86 deaths had occurred; this analysis was performed on the basis of a progression-free survival benefit with trastuzumab deruxtecan. The median overall survival was not reached in either treatment group (hazard ratio, 0.55; 95% CI, 0.36 to 0.86; P=0.007). The percentage of patients who were alive at 12 months was 94.1% (95% CI, 90.3 to 96.4) with trastuzumab deruxtecan and 85.9% (95% CI, 80.9 to 89.7) with trastuzumab emtansine. The tick marks indicate censored data.

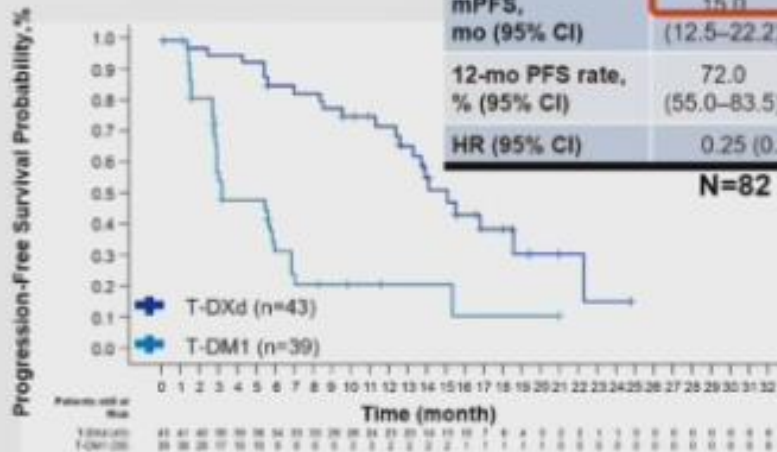
Nebenwirkungen??

Table 2. Most Common Drug-Related Adverse Events and Adjudicated Drug-Related Interstitial Lung Disease or Pneumonitis.

Event	Trastuzumab Deruxtecan (N = 257)		Trastuzumab Emtansine (N = 261)	
	Any Grade	Grade ≥3	Any Grade	Grade ≥3
<i>number of patients (percent)</i>				
Most common drug-related adverse events				
<u>Blood and lymphatic system disorders</u>				
Neutropenia*	110 (42.8)	49 (19.1)	29 (11.1)	8 (3.1)
Anemia†	78 (30.4)	15 (5.8)	37 (14.2)	11 (4.2)
Leukopenia‡	77 (30.0)	17 (6.6)	20 (7.7)	1 (0.4)
Thrombocytopenia§	64 (24.9)	18 (7.0)	135 (51.7)	65 (24.9)
Gastrointestinal disorders				
Nausea	187 (72.8)	17 (6.6)	72 (27.6)	1 (0.4)
Vomiting	113 (44.0)	4 (1.6)	15 (5.7)	1 (0.4)
Diarrhea	61 (23.7)	1 (0.4)	10 (3.8)	1 (0.4)
Constipation	58 (22.6)	0	25 (9.6)	0
General disorders				
Fatigue¶	115 (44.7)	13 (5.1)	77 (29.5)	2 (0.8)
Investigations				
Aspartate aminotransferase increased	60 (23.3)	2 (0.8)	97 (37.2)	13 (5.0)
Alanine aminotransferase increased	50 (19.5)	4 (1.6)	71 (27.2)	12 (4.6)
Metabolism and nutrition disorders				
Decreased appetite	67 (26.1)	3 (1.2)	33 (12.6)	0
Skin and subcutaneous tissue disorders				
Alopecia	93 (36.2)	1 (0.4)	6 (2.3)	0
Adjudicated drug-related interstitial lung disease or pneumonitis**	27 (10.5)	2 (0.8)	5 (1.9)	0

Hirnmetastasen

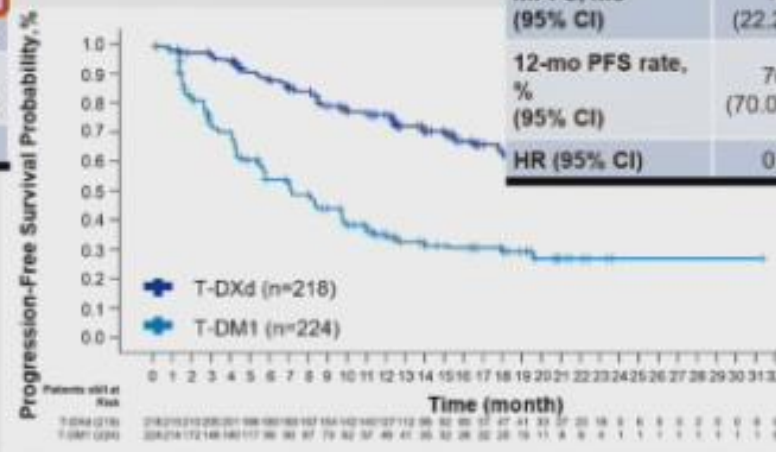
Brain Metastases at Baseline



	T-DXd	T-DM1
mPFS, mo (95% CI)	15.0 (12.5–22.2)	3.0 (2.8–5.8)
12-mo PFS rate, % (95% CI)	72.0 (55.0–83.5)	20.9 (8.7–36.6)
HR (95% CI)	0.25 (0.13–0.45)	

N=82

No Brain Metastases at Baseline



	T-DXd	T-DM1
mPFS, mo (95% CI)	NE (22.2–NE)	7.1 (5.6–9.7)
12-mo PFS rate, % (95% CI)	76.5 (70.0–81.8)	36.4 (29.4–43.4)
HR (95% CI)	0.30 (0.22–0.40)	

At data cutoff, in patients with BM at baseline, PD was observed:

- In 21/43 treated with T-DXd vs. 27/39 with T-DM1
 - In the brain in 9/21 treated with T-DXd vs. 11/27 with T-DM1

At data cutoff, in patients without BM at baseline, PD was observed:

- In 63/218 treated with T-DXd vs. 128/224 with T-DM1
 - In the brain in 4/63 treated with T-DXd vs. 1/128 with T-DM1

- T-DXd associated with substantial intracranial response and reduction in CNS disease (27.8% intracranial CR for T-DXd vs. 2.8% for T-DM1; 2.8% intracranial PD for T-DXd vs. 22.2% for T-DM1)

Immuntherapie beim triple negativen Mammakarzinom

Wann?

pN1 und $\geq$ cT2



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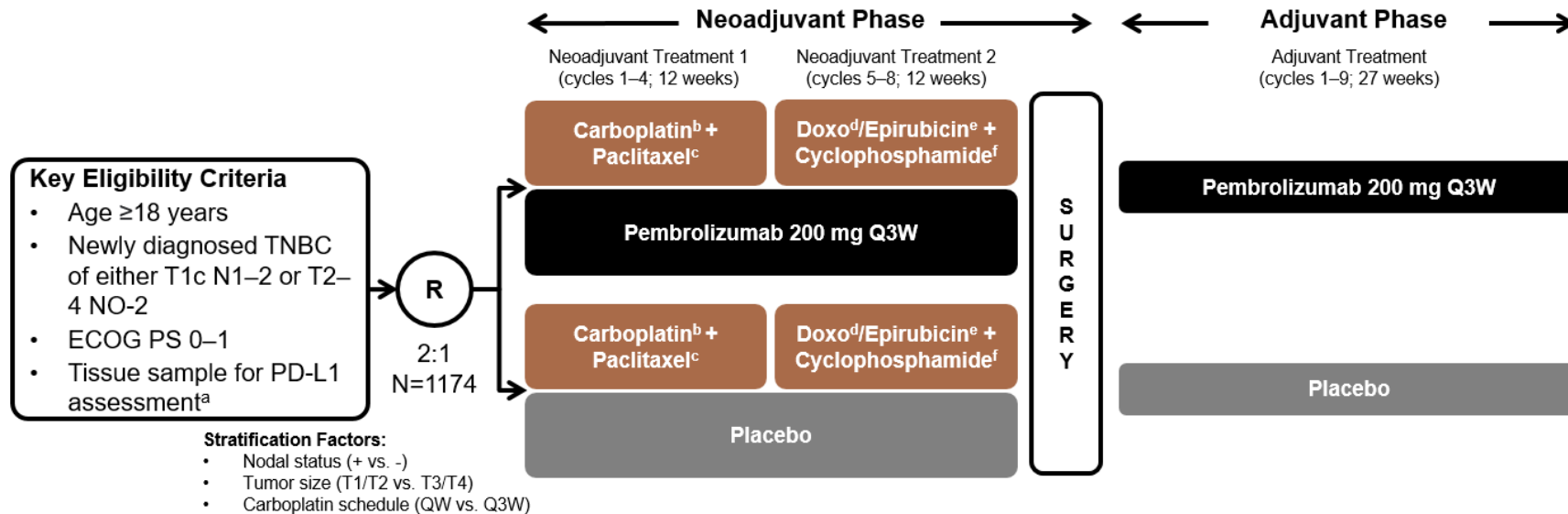
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ICPi plus Neoadjuvant Chemotherapy for Triple Negative Breast Cancer Patients

	GeparNuevo	IMpassion031	Keynote 522	neoTRIP
Phase	II	III	III	II
N	174	333	602 (pCR) 1174 (EFS)	280
Prim. endpoint	pCR	pCR	pCR + EFS	EFS
CPi	Durvalumab (24-26 weeks)	Atezolizumab (1 y)	Pembrolizumab (1 y)	Atezolizumab (24 weeks)
Chemo	NabPac ₁₂₅ q1w x12 → EC q2w x4	NabPac ₁₂₅ q1w x12 → EC q2w x4	Pac q1w x12 + carbo q3w AUC 5 or q1w AUC 1,5 → AC/EC q3w x4	NabPac ₁₂₅ + carbo AUC 2 q1w d1 and d8
Inclusion criteria	cT1b-cT4a-d	cT2-cT4, cN0-cN3	cT1cN1-2 or cT2 N0-2	cT1cN1; cT2cN1; cT3cN0
PD-L1 positive	87%	46%	83%	56%
pCR ITT	53.4% vs. 44.2% Δ 10.8% (n.s.)	57.6% vs. 41.2% Δ 16.5% (p < 0.01)	64.8% vs. 51.2% Δ 13.6% (p < 0.00055)	43.5% vs. 40.8% Δ 2.6% (n.s.)
pCR PD-L1 positive	58% vs. 50%	69% vs. 49%	69% vs. 55%	52% vs. 48%
pCR PD-L1 negative	44% vs. 18%	48% vs. 34%	45% vs. 30%	32% vs. 32%
Follow up/EFS/iDFS (months)/HR EFS/iDFS	43.7 months iDFS: 0.48 (p = 0.0389)	20 months EFS: 0.76 (n.s.)	39.1 months EFS: 15.7 vs. 23.8 m 0.63 (p = 0.00031)	---
EFS/iDFS adjusted to pCR/non-pCR	pCR 95.5% vs. 86.1% npCR 76.3% vs. 69.7%	---	pCR 94.4% vs. 92.5% npCR 67.4% vs. 56.8%	---

KEYNOTE-522 – Study Design (NCT03036488)

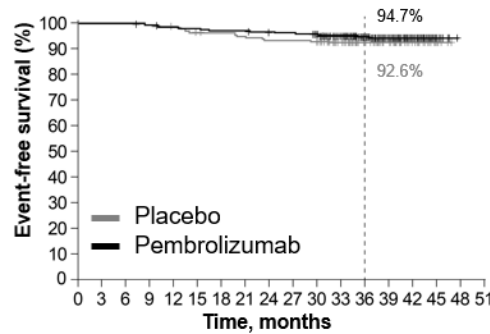


- **Neoadjuvant phase:** starts from the first neoadjuvant treatment and ends after definitive surgery (post treatment included)
- **Adjuvant phase:** starts from the first adjuvant treatment and includes radiation therapy as indicated (post treatment included)

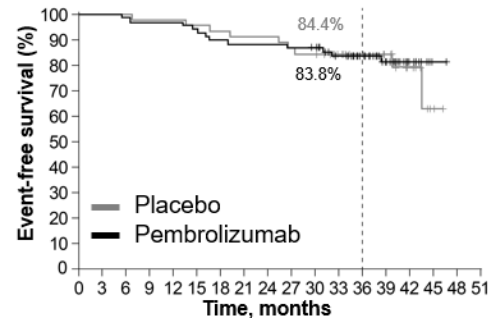
^aMust consist of at least 2 separate tumor cores from the primary tumor; ^bCarboplatin dose was AUC 5 Q3W or AUC 1.5 QW; ^cPaclitaxel dose was 80 mg/m² QW; ^dDoxorubicin dose was 60 mg/m² Q3W; ^eEpirubicin dose was 90 mg/m² Q3W; ^fCyclophosphamide dose was 600 mg/m² Q3W.

EFS by RCB Score

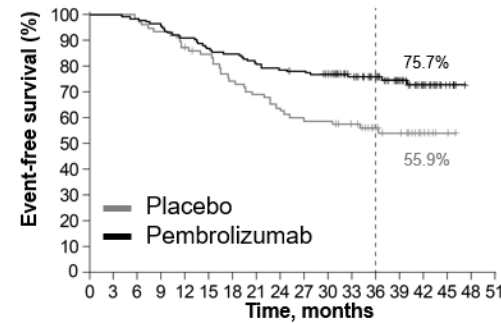
RCB-0



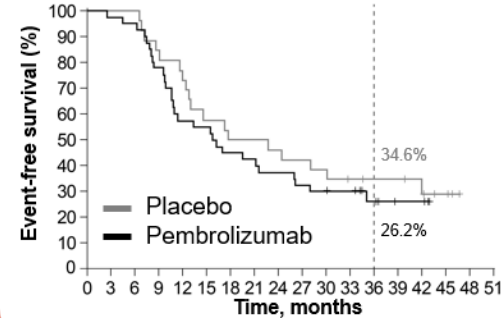
RCB-1



RCB-2



RCB-3



- The addition of Pembro lowered RCB scores
- Low RCB associated with improve EFS
- RCB 2–3 associated with poor survival

Where does NeoPACT fit with other ICI Neoadjuvant Trials?

	GeparNuevo	KN-522	Impass-031	NeoTRIP	iSPY
N	174	1174	333	280	69/181
Target	PD-L1	PD-1	PD-L1	PD-L1	PD-1
Stage	35% stage 1	2/3	2/3	Incl N3	2/3
Anthracycline	Yes	Yes	Yes	No	Yes
Platinum	No	Yes	No	Yes	No
pCR (ITT)	58%	65%	58%	44%	60%
ΔpCR	9%	14%	17%	3%	22–66%
EFS (HR)	0.48 (0.24–0.97)	0.63 (0.43–0.93) (p=0.00031)	0.76 (0.4–1.44) (ns)	TBD	N/A
EFS	3-yr DFS 85.6%	3-yr DFS 84.5%	TBD	TBD	N/A