

> Guidelines Breast Version 2024.1E

Diagnosis and Treatment of Patients with early and advanced Breast Cancer

Neoadjuvant (Primary) Systemic Therapy



Guidelines Breast Version 2024.1E

Neoadjuvant Systemic Therapy

Versions 2002–2023:

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• Version 2024:

Jackisch / Stickeler

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Strategies for Differentiated Systemic Treatment in the Curative Situation

		AGO
AGO e. V. n der DGGG e.V. sowie	If chemotherapy is indicated systemic treatment before surgery (neoadjuvant) should be preferred; study participation recommended	
n der DKG e.V.	HR+ / HER2- and "low recurrence-risk"	
Guidelines Breast	Endocrine therapy without chemotherapy	++
/ersion 2024.1E	HR+ / HER2- and "high recurrence-risk"	
	 Endocrine / endocrine-based therapy (abemaciclib) Patients with indication for chemo-endocrine therapy* 	++
	 Conventionally dosed AT-based chemotherapy (q3w) 	+
	 Dose dense chemotherapy (including weekly schedule) 	++
	 Triple-negative (TNBC) 	
	 Conventional dosed AT-based chemotherapy (q3w) 	+
	 Sequential AT-based chemotherapy (incl. weekly schedule) 	++
	Neoadjuvant platinum-containing chemotherapy	+
	 Neoadjuvant platinum-containing chemotherapy with ICPI (Pembrolizumab) 	+
	gBRCA1/2mut (HR+/HER- or TNBC respectively ¹)	
	 Olaparib¹ 	++
	■ HER2+	
w.ago-online.de	 Trastuzumab (plus Pertuzumab in N+ or NACT) 	++
ORSCHEN	Sequential AT-based chemotherapy with concurrent T + anti-HER2 therapy	++
EFIREN	 Anthracycline-free, chemotherapy + anti-HER2 therapy 	++

¹according to approval or study population (if not approved), *see prognosis chapter



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Lee-Schonberg Index https://eprognosis.ucsf.edu/leeschonberg-result.php

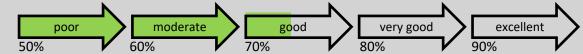
Lee Index

- This index was developed in 11,701 community-dwelling adults from the eastern, western and central United States who were interviewed in the Health Retirement Survey in 1998 (mean age 67, 57% female, 81% white, 12% 4-year mortality).
- The index was internally validated in 8009 Health Retirement Survey interviewees from the southern United States (mean age 67, 57% female, 71% white, 13% 4-year mortality) and externally validated in 7042 English Longitudinal Study on Ageing interviewees.
- Discrimination: This risk calculator sorts patients who died from patients who lived correctly 82% of the time (c-statistic). The life expectancy calculator sorts patients who lived longer from patients who lived shorter correctly 78-80% of the time in the validation studies
- Calibration: The model was well calibrated across all risk levels with less than 3% difference between estimated and actual mortality rates. moderate good excellent

Schonberg Index

poor

- 50% 80% 60% 70% 90% This index was developed in 16,077 community dwelling older adults who responded to the 1997-2000 National Health Interview (NHIS) (27% >80 years old, 60% female, 85% white, 17% 5-year mortality)
- The index was internally validated in a random sample of 8038 from respondents from the same data source from 2001-2004 and followed through 2006 (27% >80 years old, 60% female, 85% white, 17% 5-year mortality). The index was internally validated in 16,063 respondents from the original development cohort and 8,027 respondents from the original validation cohort from 1997-2000 and followed through 2011 (10 and 14-year mortality).
- Discrimination: This risk calculator sorts patients who died within 5 years from patients who lived correctly 75% of the time (cstatistic). The discrimination was the same in the independent validation study. For 10 year and 14 year mortality the calculator sorts patients correctly 73% and 72% of the time.
- Calibration: The model was well calibrated across all risk levels with less than 10% difference between estimated and actual mortality.



very good

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Lee-Schonberg Index

https://eprognosis.ucsf.edu/leeschonberg-result.php

Risk Calculator questions

- 1. How old is your patient?
- 2. What is the sex of your patient?
- 3. What is your patient's BMI?
- 4. Which best describes your patient's health in general?
- 5. Does your patient have chronic lung disease, such as emphysema or chronic bronchitis?
- 6. Has your patient ever had cancer (excluding minor skin cancers)?
- 7. Does your patient have congestive heart failure?
- 8. Does your patient have diabetes or high blood sugar?
- 9. Which best describes your patient's cigarette use?
- 10. Does your patient have difficulty walking 1/4 mile (several city blocks) without help from other people or special equipment?
- 11. During the past 12 months, how many times was your patient hospitalized overnight?
- 12. Because of a physical, mental or emotional problem, does your patient need the help of others in handling routine needs such as everyday household chores, doing necessary business, shopping, or getting around for other purposes?
- 13. Because of a health or memory problem, does your patient have difficulty managing money such as paying bills and keeping track of expenses?
- 14. Because of a health or memory problem, does your patient have difficulty with bathing or showering?
- 15. Because of a health problem, does your patient have difficulty pushing or pulling large objects like a living room chair?

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Anthracycline-free Taxan / Carboplatin based Regimen for HER2+

Regimen	Ppts. (n)	pCR rate (%)	OUTCOME
6 x TCH (TRIO B07)	34	47	Not published
6 x TCHP (TRYPHAENA)	75	64	3-yr-DFS: 90%
6 x TCHP (KRISTINE - TRIO - 021)	221	56	3-yr-EFS: 94.2
4 x TCHP (NSABP- B52; nur HR+)	155	41	Not published
9 x TxCHP (TRAIN-2)	206	68	3-yr-EFS: 93.6%

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T Docetaxel, Tx Paclitaxel, C Carboplatin, H Trastuzumab, P Pertuzumab



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Neoadjuvant Systemic Chemotherapy Clinical Benefit

	Oxf	ord
	LoE	GR
 Leads to improvement of prognosis by individualization of neoadjuvant and post-neoadjuvant therapy (data most consistent for HER2pos and TNBC) 	1b	Α
 Survival is similar after neoadjuvant (preoperative, primary) and adjuvant systemic therapy (with same regimen and number of cycles), if the postneoadjuvant therapy is not stratified according to pathologic response 	1a	Α
 Pathological complete response is associated with improved survival 	1b	Α
 The RCB Score and the class of RCB are subtype independent prognostic factors 	2 a	В
 Can achieve operability in primary inoperable tumors 	1b	Α
 Improved options for breast conserving surgery 	1b	Α
 Decreases rate of axillary lymphadenectomies lymphonodectomies 	2b	В
 Allows individualization of therapy according to mid-course treatment effect 	1b	В



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Neoadjuvant Systemic Chemotherapy - Indications

	Oxf	Oxford		
	LoE	GR	AGO	
 If similar postoperative adjuvant chemotherapy is indicated 	1b	Α	++	
 To allow a risk adapted postoperative therapy (data most consistent for HER2 pos and TNBC) 	1b	Α	++	
 Inflammatory breast cancer 	2b	В	++	
Inoperable breast cancer	1c	Α	++	
 Large operable breast cancer requiring mastectomy and adjuvant chemotherapy with the goal of breast conservation 	1b	В	++	

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Neoadjuvant Systemic Chemotherapy (NACT) Predictive Factors for pCR I

		Oxford			
Factor	pCR* Probability	LOE	GR	AGO	
 Young age 	↑	1 a	Α	+	
 Obesity 	\downarrow	2 a	В	+	
 cT1 / cT2 tumors o. N0 o. G3 	$\uparrow \uparrow$	1 a	Α	++	
 Negative hormone receptor status 	$\uparrow \uparrow$	1 a	Α	++	
 Triple negative breast cancer 	$\uparrow\uparrow$	1 a	Α	++	
Positive HER2-status	$\uparrow\uparrow$	1 a	Α	++	
 Early clinical response 	↑	1b	Α	+	
 Lobular tumor type 	\downarrow	1 a	Α	+	
 Metaplastic tumor type 	$\downarrow\downarrow$	4	С	+	

* High ([↑]) or very high ([↑]) probability to reach pCR, low ([↓]) or very low(^{↓↓}) probability to reach pCR; See aso chapter "Prognostic and predictive factors"



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Neoadjuvant Systemic Chemotherapy (NACT) Predictive Factors for pCR II

		Oxf	ord	
Factor	pCR* Probability	LoE	GR	AGO
 Gene expression profiles (gene signatures) (Mammaprint[®](+ Blueprint[®]), Endopredict[®] Oncoty DX[®], Prosigna[®], PAM50[®], Breast Cancer IndexSM) 	↑ pe	2b	В	+/-
 HER2DX (27 genes, response to trastuzumab / pertuzumab) 	1	2b	В	+/-
■ Ki-67	\uparrow	2b	В	+
Tumor infiltrating lymphocytes**	\uparrow	2 a	В	+
 PIK3CA mutation (for HER2-positive BC) 	↑	2 a	В	+/-
 gBRCA-mutation (for the effect of chemotherapy) 	\uparrow	2b	В	+
 gBRCA-mutation (for the effect of platinum) 	\Leftrightarrow	2b	В	+/-

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- * High (\uparrow) or very high ($\uparrow\uparrow$) probabililty of pCR, low (\downarrow) or very low ($\downarrow\downarrow$) probabililty of pCR
- ** Defined as dense lymphocytic infiltration of inner peritumoral stroma outside of the invasion front (lymphocytes make up > 50% of stroma area)



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Neoadjuvant Systemic Chemotherapy Recommended Regimens

	Oxford		
	LoE	GR	AGO
Use of adjuvant standard regimens for NACT*	1 a	Α	++
 Taxane mono followed by anthracycline (reverse order) 	4	D	+/-
 Platinum in TNBC (cT1 / cN+ or cT2) (irrespective of BRCA status) 	1b	Α	+
 Platinum in TNBC (from cT1 / cN+ or cT2) (irrespective of BRCA status) 	1 a	Α	+
 Nab-paclitaxel weekly instead of paclitaxel qw1 (in TNBC) 	1 a	Α	+
 Pembrolizumab in combination with carbo / paclitaxel → 4x EC q3w (TNBC**) 	1b	В	+
* See chapter Adjuvant Chemotherapy;			

** > 2 cm or cN+, PD-L1 independent



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Recommended Regimen in Triple Negative Breast Cancer

	Oxf	ord	
·	LOE	GR	AGO
Non-platinum-containing regimen			
 ddEC x 4 → pacli₈₀ q1w x 12 	1b	В	++
■ NabPac ₁₂₅ q1w x 12 \rightarrow E ₉₀ C q(2)3w x 4	1b	В	+/-
Platinum-containing regimen			
NabPac ₁₂₅ / carbo _{AUC 2} q1w x 8 → ddEC x 4	1b	В	+
Pacli ₈₀ q1w x 12 / carbo _{AUC 6} q3w x 4 → ddAC / ddEC x 4	1b	В	+
Docetaxel / carbo _{AUC6} q3w x 6 or paclitaxel/carbo _{AUC1,5} q1w x18	2b	В	+
NabPac ₁₀₀ / carbo _{AUC 6} q4w x 4	2b	С	+
Checkpoint inhibitors			
Pembro ₂₀₀ q3w + Pac ₈₀ / carbo _{AUC 1,5} q1w x 12 \rightarrow E ₉₀ C q3w x 4	1b	В	+
• Pembro ₂₀₀ q3w + Pac ₈₀ q1w x 12 / carbo _{AUC 5} q3w \rightarrow E ₉₀ C q3w x 4	1b	В	+



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ICPi plus Neoadjuvant Chemotherapy for Patients with Triple Negative Breast Cancer

	GeparNuevo	IMpassion031	Keynote 522	neoTRIP
Phase	11	Ш		11
N	174	333	602 (pCR) 1174 (EFS)	280
Prim. endpoint	pCR	pCR	pCR + EFS	EFS
СРі	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 \rightarrow 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% ∆ 10.8% (n.s.)	57.6% vs. 41.2% ∆ 16.5% (p < 0.01)	64.8% vs. 51.2% ∆ 13.6% (p < 0.00055)	48.6% vs. 44.4% ∆ 4.2% (n.s.)
pCR PD-L1 positive	58% vs. 50%	69% vs. 49%	69% vs. 55%	33,9% vs. 35.4%
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)	24 months EFS: 85% vs. 80% 0.76 (n.s.)	63.1 months EFS: 81,3% vs. 72,3% 0.63 (p = 0.00031)	54 months EFS: 70.6% vs. 74.9 % 1.076 (p = 0.76)
EFS/iDFS adjusted to pCR/non-pCR	pCR 95.5% vs. 86.1% npCR 76.3% vs. 69.7%		pCR 92. 2% vs. 88.2 % npCR 62.6 % vs. 52.3 %	pCR vs. non pCR 90.3% vs. 55.7%



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Neoadjuvant Systemic Therapy Recommended Methods of Monitoring of Response

		Oxf	Oxford	
V.		LoE	GR	AGO
st	 Breast ultrasound 	2b	В	++
	 Palpation 	2 b	В	++
	 Mammography 	2 b	В	++
	MRI	2 b	В	+
	PET(-CT)	2 b	В	+/-
	 Pretherapeutical marking of tumor region 	5	D	++
de	 Pretherapeutical diagnostic core needle biopsy and marking in case of of cN+ (CNB) (in case TAD is planned for ≤ 3 suspect lymph nodes) 	2b	В	++*

(CNB: core needle biopsy; TAD: targeted axillary dissection; *study participation recommended (AXSANA /Eubreast 3 Trial)



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Neoadjuvant Targeted Therapy in HER2 Positive Tumors

	Oxf	Oxford		
	LoE	GR	AGO	
 Pertuzumab + trastuzumab in combination with chemotherapy (high-risk defined as cT2-4 and / or cN+) 	2b	В	++	
 Trastuzumab in combination with stand polychemotherapy (low-risk)* 	1b	Α	+	
 Anti-HER2 agents without chemotherapy 	2 b	В	+/-	

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* Single agent chemotherapy combined with trastuzumub should preferably be used in the adjuvant setting



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Neoadjuvant Chemotherapy Treatment Strategies Based on Clinical Response

	Oxford		
	LoE	GR	AGO
In case of early response			
 Completion of neoadjuvant chemotherapy 	1b	Α	++
In case of no change:			
 Completion of neoadjuvant chemotherapy (NACT) followed by surgery 	2b	С	++
 Continuation of NACT with non cross-resistant regimen 	2b	В	+
• AC or EC x 4 \rightarrow D x 4 or Pw x 12	2b	В	+
• DAC x 2 \rightarrow NX x 4	1b	В	+
In case of disease progression			
 Re-evaluation of tumorbiological factors 	5	D	+/-
 Stop NACT and proceed to surgery or radiotherapy 	4	D	++
 Additional adjuvant chemotherapy with non cross-resistant regimen 	4	D	+/-



Axillary Surgery and NACT

Oxford ~ -

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-							LOE	GR	AGO
cN status (before NACT)	pN status (before NACT)	ycN status (after NACT)	Axillary surgery (after NACT)	AGO	ypN status (after NACT and surgery)	Surgical consequence based on histopathology			
cN0*	No surgery before NACT	ycN0	SLNE	++	ypN0 (sn)	none	2b	В	++
					ypN0 (i+) (sn)	ALND	2b	С	+/-
					ypN1mi (sn)	ALND	2b	С	+
					ypN1 (sn)	ALND	2b	С	++

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* Study participation in EUBREAST-01 recommended

RBEITSGEMEINSCHAFT GYNÄKOLOGISCHE DNKOLOGIE E.V.		A	xillary	Surgery	and	NACT (cN+	-)	Oxf	Oxford	
Мамма								LoE	GR	AGO
AGO e. V.	cN status (before NACT)	pN status (before NACT)	ycN status (after NACT)	Axillary surgery (after NACT)	AGO	ypN status (after NACT and surgery)	Surgical consequence based on histopathology			
in der DGGG e.V. sowie in der DKG e.V.	cN+*	рN+ _{сNB}	ycN0	ALND	+	ypN0 / ypN+	none	2b	В	++
Guidelines Breast Version 2024.1E				TAD	+	ypN0	none	2b	В	+
						ypN0 (i+)	ALND	2b	В	+/-
						ypN+ inkl. ypN1mi	ALND	2b	В	+
				SLNE	+/-	ypN0	none	2b	В	+/-
						ypN0 (i+)	ALND	2b	В	+/-
						ypN+ inkl. ypN1mi	ALND	2b	В	+
				TLNE	+/-	ypN0	none	2b	В	+/-
						ypN0 (i+)	ALND	3b	В	+/-
						ypN+ inkl. ypN1mi	ALND	3b	В	+
w.ago-online.de			ycN+**	ALND	++	ypN0 / ypN+	none	2b	В	++

* Study participation in AXSANA recommended, ** Cave: In 30.3% false-positive findings, consider CNB if necessary



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Neoadjuvant Systemic Therapy Loco-regional Surgery (Breast)

Ge.V.		Oxf			
e.V.		LoE	GR	AGO	
reast 4.1E	 Pretherapeutic discussion in a multidisciplinary tumor board (e.g. to define the surgical procedure) 	1a	В	++	
	 Early marking of tumor (incl. detailed topographic documentation) 	5	D	++	
	 Surgical removal of tumor / representative excicion of posttherapeutic, marked tumorareal 	2b	С	++	
	 Tumor resection in new margins 	2b	С	++	
ne.de	 Microscopically clear margins 	2 a	В	++	

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Neoadjuvant Systemic Therapy Indications for Mastectomy

	Oxford			
	LoE	GR	AGO	
 Positive margins after repeated excisions 	3 b	С	++	
 Radiotherapy not feasible 	5	D	++	
In case of clinical complete response				
 Inflammatory breast cancer (in case of pCR) 	2b	С	+/-	
 Multicentric lesions 	2b	С	+/-	
 cT4a-c breast cancer 	2 b	В	+/-	

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Neoadjuvant Systemic Therapy Timing of Diagnosis, Surgery and Radiotherapy

e. V. DGGG e.V.		Oxf			
DGGG e.v. DKG e.V.		LoE	GR	AGO	
ines Breast n 2024.1E	Initiation of therapy Delay of therapy associated with worse prognosis	2b	В	+	
	Timing of surgery 4-8 weeks after last course of chemotherapy	2 a	В	++	
o-online.de SCHEN REN	Radiotherapy within 2 months after surgery	2b	В	++	



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Neoadjuvant endocrine Therapy (NET) - Good clinical practice -

- Suitable for patients who are
 - inoperable
 - not able or willing to undergo chemotherapy
- Data for premenopausal in contrast to postmenopausal patients is limited
- Optimale duration of NET is at least 4-6 months or until best repsonse or progression
- Choice of endocrine therapy is based on the menopausal status
- Ki-67 analysis after preoperative short term endocrine therapy for 2 to 4 weeks may predict response to endocrine treatment (prognostic / predictive evaluation)

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Neoadjuvant Endocrine Therapy in Patients with Endocrine-responsive Breast Cancer

		Oxford			
		LoE	GR	AGO	
•	Postmenopausal patients:				
	 Optimizes the option for breast conserving therapy 	1b	Α	+	
	 Aromatase inhibitors (at least 6 months) 	1a*	В	+	
	 Aromatase inhibitor + lapatinib (HER2+ BC) 	2b	В	+/-	
•	Premenopausal patients				
	 Tamoxifen 	2b	С	+	
	 Aromatase inhibitors + LHRHa 	1b	С	+/-	
•	Concurrent chemo-endocrine therapy	1b	Α	-	
•	Ki-67 analysis after preoperative short term endocrine therapy for 2 to 4 weeks (Tam / AI \pm GnRha) (prognostic / predictive evaluation information)	1b	В	+	
•	 Prognostic score: PEPI: pTN-Stage, ER expression and Ki-67 expression after neoadjuvant endocrine therapy 	1b	В	+	

* No long term results for neoadjuvant endocrine therapy (vs. adjuvant endocrine therapy)





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Postneoadjuvant Therapy HR+ / HER2-

	Oxford		
	LoE	GR	AGO
HR positive (pCR and non-pCR)			
 Endocrine therapy according to menopausal state (s. chap. 10) 	1a	Α	++
 Abemaciclib for 2 yrs + endocrine therapy¹ 	1b	В	+
 Olaparib for 1 yr + endocrine therapy (gBRCA1/2^{MUT}, if non- pCR and CPS-EG Score ≥ 3)² 	1b	Α	++
 Capecitabine (non-pCR) 	1b	Α	+/-

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¹ According inclusion criteria monarchE-study,

² According inclusion criteria OlympiA-study



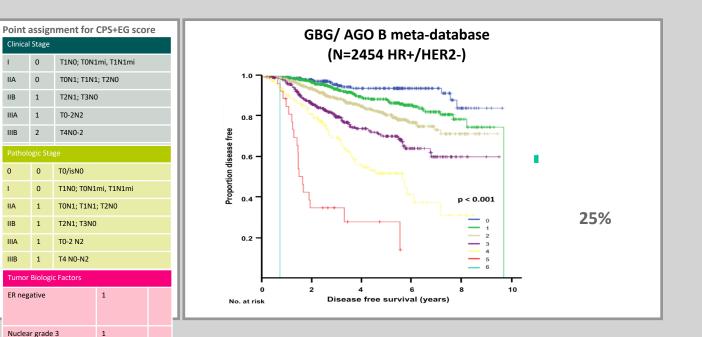
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How to calculate CPS+EG Score?



Mittendorf EA, J Clin Oncol 2011; Marmé F, et al. Eur J Cancer 2016

Clinical Stage

IIA 0

IIB 1

IIIA 1

IIIB 2

0

IIA

IIB 1

IIIA 1

IIIB 1

ER negative

0

0

0

1



Adjuvant / Post-Neoadjuvant Treatment with CDK4/6i

	monarchE	PALLAS	PENELOPE ^B	NATALLEE
ie.V. N	5,637	5,600	1,250	5101
CDK4/6i	Abemaciclib	Palbociclib	Palbociclib	Ribociclib
reast % of pts. with NAC	T 37%	n.r.	100%	88%
Duration of CDK4/6i treatm	24 months ent	24 months	12 mths	36 months
Follow-up	42.0 months	24 months	43 months	33,3 months
Discontinuation ra	te 28%	42%	20%	35,5%
Discontinuation rate due to AE _{CDKi}	17%	27%	5%	19.5%
IDFS-HR (95%-CI)	0.664 (0.578-0.762) p < 0.0001	0.96 (0.81-1.14) p = 0.65	0.93 (0.74-1.16) p = 0.525	0.749(0,628-0.892) p = 0.0006
2-yrs IDFS	92.7% vs. 89.9%	n.r.	88% vs. 78%	93.5% vs. 92.0%
a.de 3-yrs IDFS	89.2% vs. 84.4%	88% vs. 89%	81% vs. 78%	90.7% vs. 87.6%
4-yrs IDFS	85.8% vs. 79.4%	84.2% vs. 84.5%	73% vs. 72%	

IDFS: invasive disease-free survival



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Postneoadjuvant Therapy TNBC

Oxford GR AGO LOE ©AGO e. V. pCR in der DGGG e.V. in der DKG e.V. Continuation of pembrolizumab, if started with neoadj. therapy (q3w В **1b** + Guidelines Breast for 9 courses) Version 2024.1E Non-pCR Capecitabine (q3w up to 8 courses)¹ With non-pCR after A-T-containing chemotherapy¹ **1a** Α ++ With non-pCR after platinum +/- pembrolizumab-containing therapy 5 D +/-Platinum salts (carboplatin or cisplatin) q3w after AT-pretreatment **1b** В +/-Olaparib (*qBRCA^{MUT}*)² **1b** Α ++ Continuation of pembrolizumab, if started with neoadj. therapy (q3w **1b** В ++ for 9 courses)

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- ¹ in stage II-III without platinum/pembrolizumab-based pretreatment
- ² according inclusion criteria of OlympiA trial, advantage especially with platinum-free NACT



Postneoadjuvant Therapy HER2-positive

5-0Z		Oxfo			
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in der DKG e.V.	<u>pCR</u>				
Guidelines Breast Version 2024.1E	 Low risk: Trastuzumab (to complete 12 mths) 	2 a	С	++	
	 High risk (cN+): Trastuzumab + Pertuzumab (to complete 12 mths) 	2 b	С	+	
	 Neratinib after 1 year Trastuzumab (HR-positive, stage II-III)* 	2b	В	+/-	
	<u>non-pCR</u>				
	■ T-DM1	1b	В	++	
	 Trastuzumab + Pertuzumab (to complete 12 mths) 	2b	С	+	
	 Additional HER2-directed therapy after 1 yr (extended adjuvant th.) 				
	 Neratinib after Trastuzumab (HR-positive, stage II-III)* 	2b	В	+	
www.ago-online.de	 Neratinib after other HER2-directed therapies (HR-positive, stage II-III)* 	5	D	+/-	

* In combination with standard endocrine treatment