

Neoadjuvante Therapie – was bringt uns die Zukunft

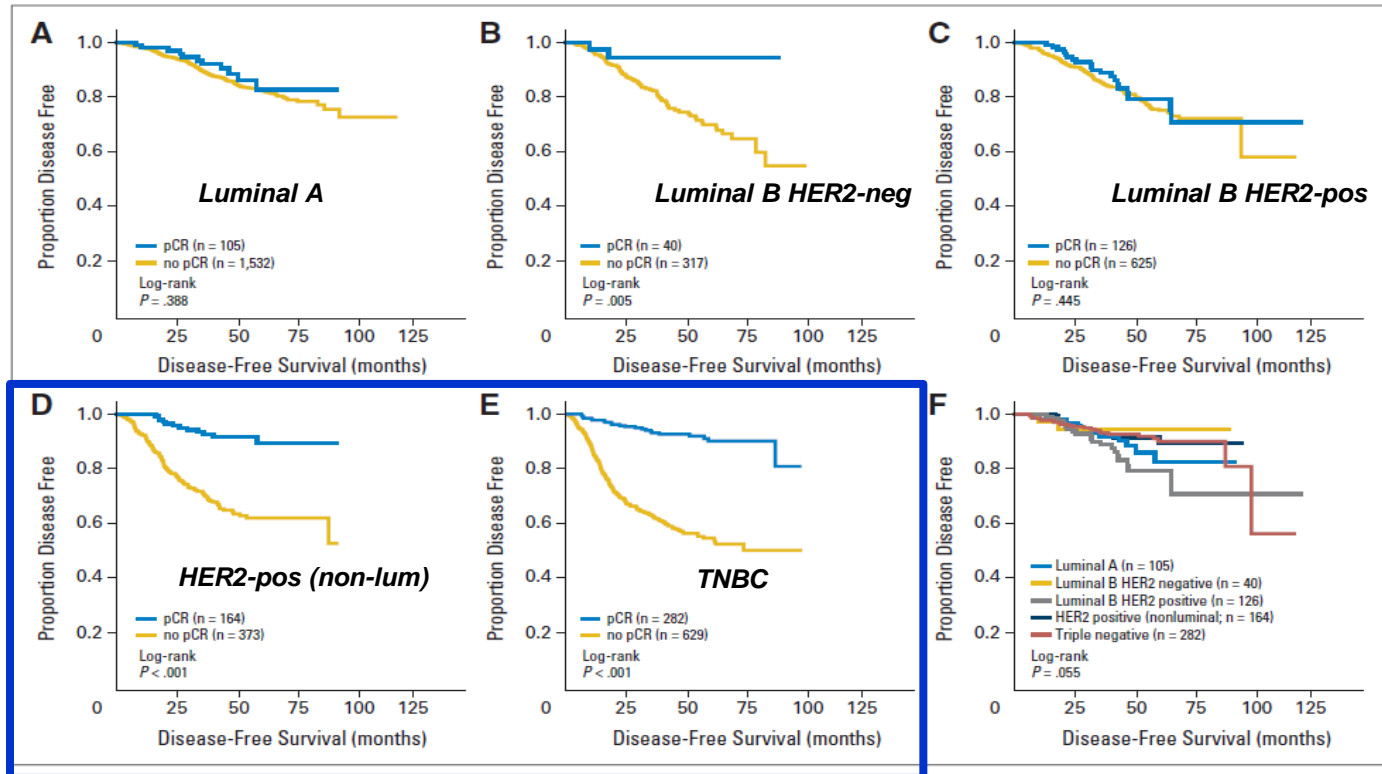
Jahrestreffen GBG
Frankfurt 24.2.2021



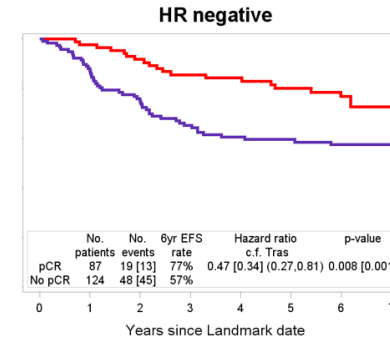
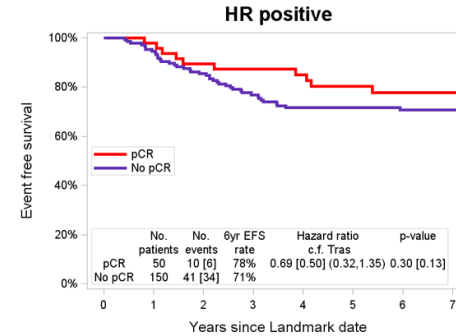
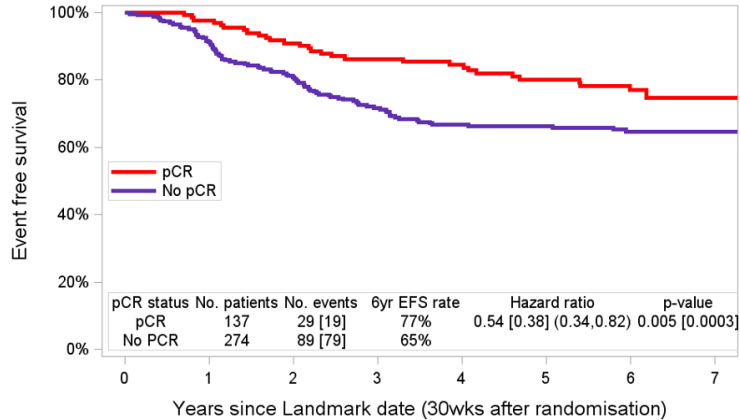
Jens Huober
Brustzentrum
Kantonsspital St Gallen



Prognose in Abhängigkeit der pCR bei unterschiedlichen Subtypen (N=4193)

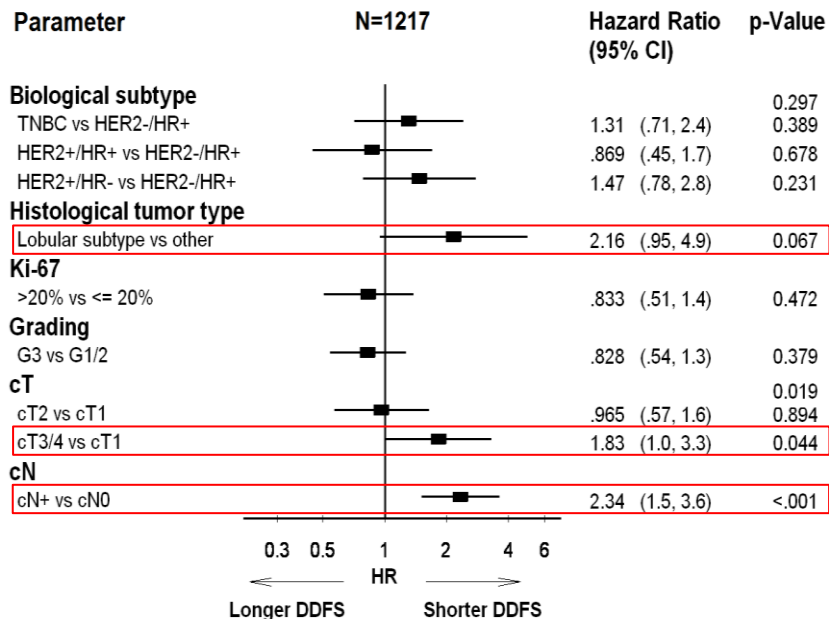


NeoALTTO Studie - Bessere Prognose bei pCR

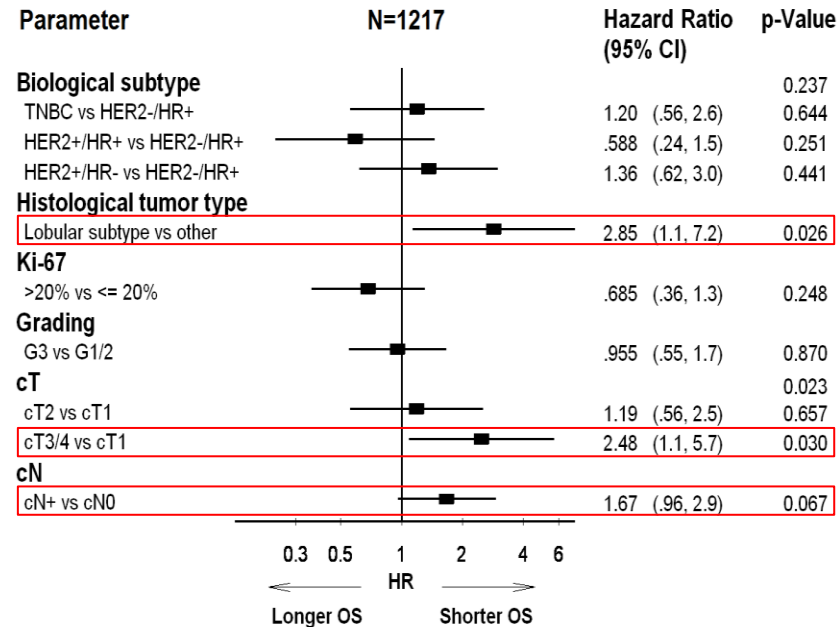


Metaanalyse G3-G7 – Rezidive nach pCR

DDFS



OS



Five year survival rates for DFS, DDFS and OS

	DFS rate (95% CI)	DDFS rate (95% CI)	OS rate (95% CI)
Overall	86.8% (85.2%, 88.3%)	90.6% (89.1%, 91.8%)	93.7% (92.4%, 94.7%)
Subgroups			
cT1	87.3% (82.9%, 90.7%)	90.4% (86.3%, 93.4%)	95.1% (92.0%, 97.1%)
cT2	88.0% (85.9%, 89.8%)	91.7% (89.9%, 93.2%)	94.3% (92.7%, 95.5%)
cT3/4	82.4% (77.9%, 86.0%)	86.8% (82.8%, 89.9%)	90.7% (87.1%, 93.3%)
cN0	90.4% (88.4%, 92.2%)	93.4% (91.6%, 94.9%)	95.5% (93.9%, 96.7%)
cN+	82.7% (79.9%, 85.2%)	87.3% (84.8%, 89.4%)	91.6% (89.5%, 93.4%)
Lobular tumor type	77.5% (65.3%, 85.8%)	81.5% (69.5%, 89.1%)	84.5% (73.0%, 91.4%)
Other tumor type	87.2% (85.5%, 88.7%)	90.9% (89.5%, 92.2%)	94.1% (92.8%, 95.1%)

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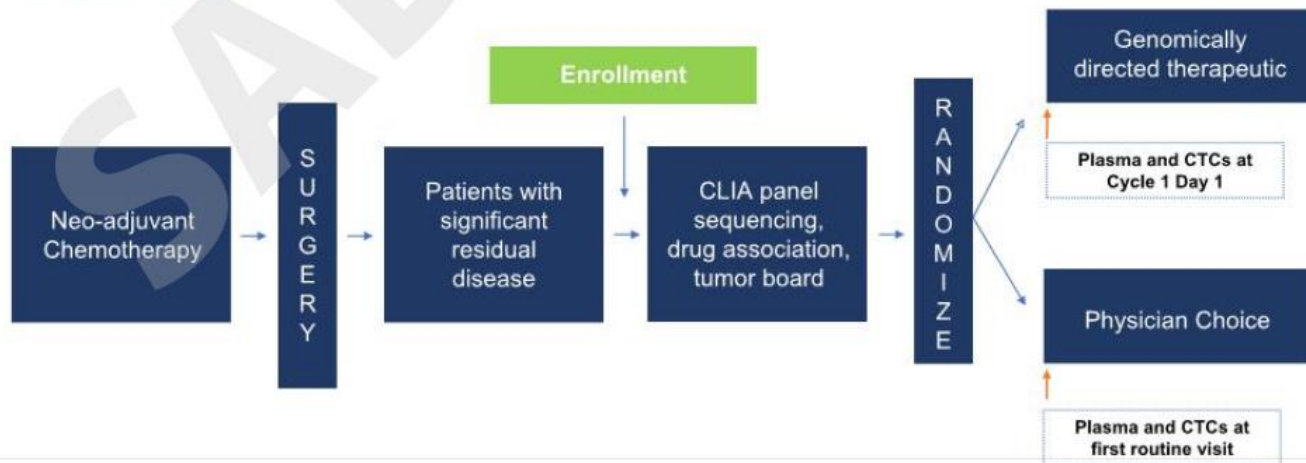
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Detection of ctDNA and CTCs after neoadjuvant chemotherapy is associated with disease recurrence in triple-negative breast cancer: preplanned analyses from trial BRE12-158

Milan Radovich¹, Guanglong Jiang¹, Bradley A. Hancock¹, Christopher Chitambar², Rita Nanda³, Carla Falkson⁴, Filipa C. Lynce⁵, Christopher Gallagher⁵, Claudine Isaacs⁵, Marcelo Blaya⁶, Elisavet Paplomata⁷, Radhika Walling⁸, Karen Daily⁹, Reshma Mahtani¹⁰, Michael A. Thompson¹¹, Robert Graham¹², Maureen E. Cooper¹³, Dean C. Pavlick¹³, Lee Albacker¹³, Jeffrey Gregg^{13,14}, Jeffrey P. Solzak¹, Casey L. Bales¹, Erica Cantor¹, Fei Shen¹, Anna Maria V. Storniolo¹, Sunil Badve¹, Tarah J. Ballinger¹, Chun-Li Chang¹⁵, Yuan Zhong¹⁵, Cagri Savran¹⁵, Kathy D. Miller¹, Bryan P. Schneider¹

¹Indiana University Simon Comprehensive Cancer Center, Indianapolis, IN, ²Medical College of Wisconsin, Milwaukee, WI, ³University of Chicago, Chicago, IL, ⁴University of Alabama at Birmingham, Birmingham, AL, ⁵Georgetown University, Washington, DC, ⁶Memorial Healthcare System, Hollywood, FL, ⁷Winship Cancer Institute of Emory University, Atlanta, GA, ⁸Community Regional Cancer Care, Indianapolis, IN, ⁹University of Florida, Gainesville, FL, ¹⁰University of Miami, Miami, FL, ¹¹Aurora Health Care, Milwaukee, WI, ¹²Erlanger Health System, Chattanooga, TN, ¹³Foundation Medicine, Inc., Cambridge, MA, ¹⁴University of California at Davis, Davis, CA, ¹⁵Purdue University, West Lafayette, IN

BRE12-158: A phase II randomized control trial of genomically directed therapy after preoperative chemotherapy in patients with triple negative breast cancer

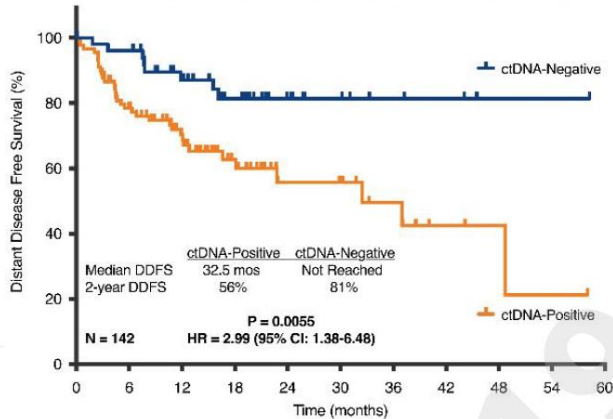


- Primary endpoint: 2-year DFS (N=196)

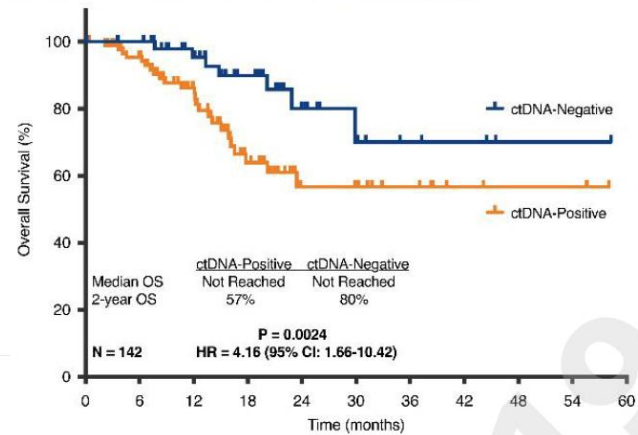
Keine pCR nach neoadjuvanter Therapie

Zusätzliche Prognoseabschätzung durch cDNA

Association of ctDNA with Distant Disease Free Survival (DDFS)



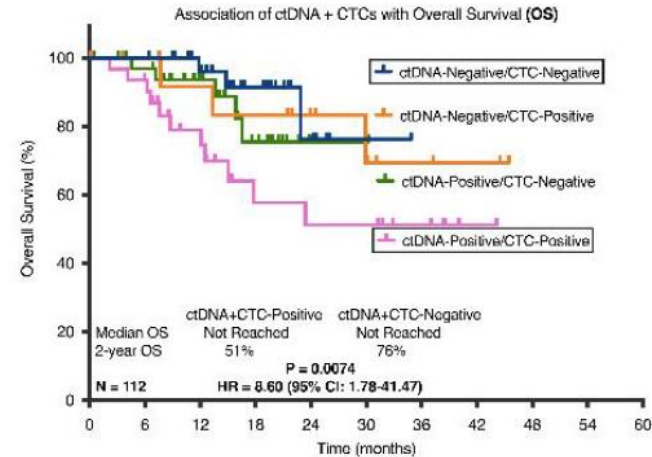
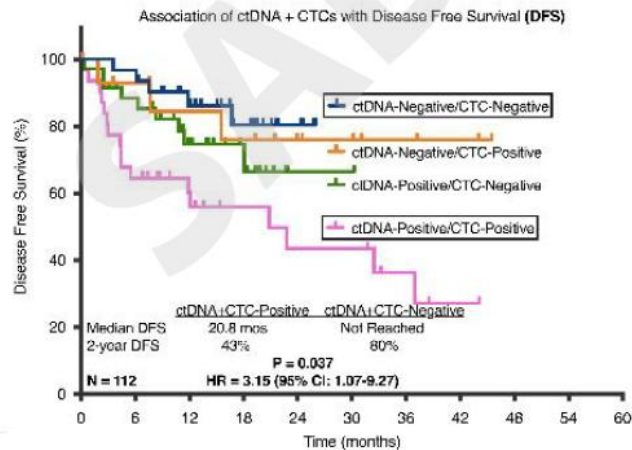
Association of ctDNA with Overall Survival (OS)



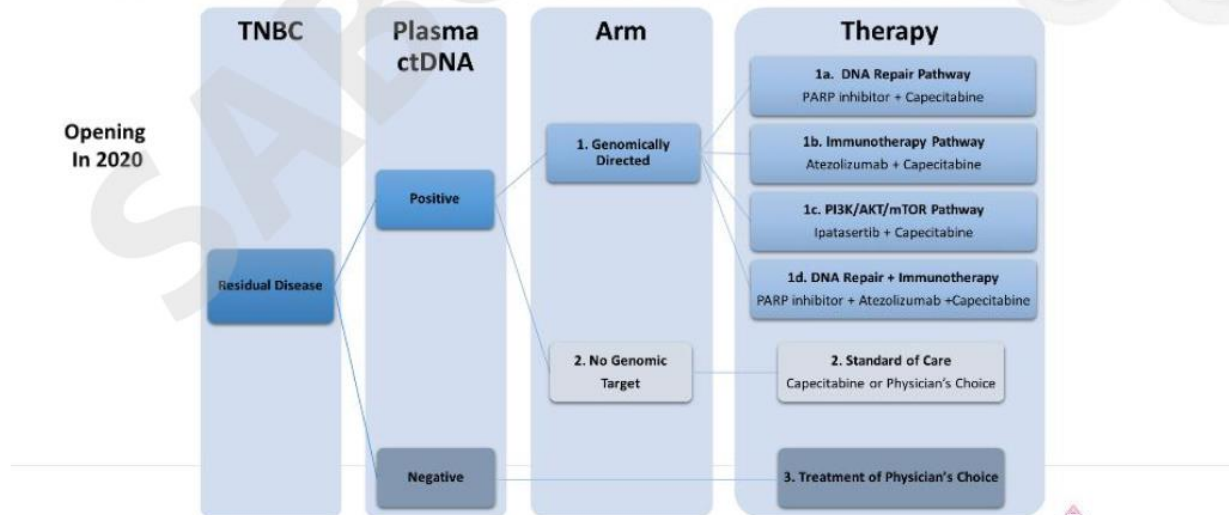
Keine pCR nach neoadjuvanter Therapie

Zusätzliche Prognoseabschätzung durch ctDNA

Association of ctDNA + CTCs with DFS and OS



BRE18-334: A Phase II circulating tumor DNA enriched, genomically directed post-neoadjuvant trial for patients with residual triple negative breast cancer **PERSEVERE Trial**

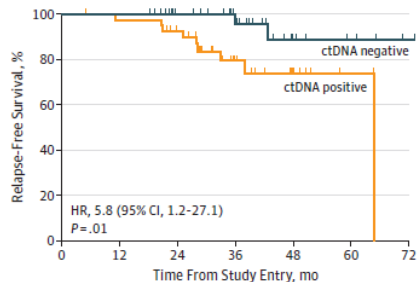


To be generously supported by:

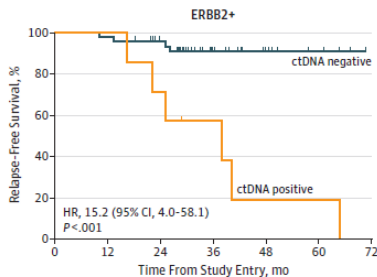


ctDNA zur Prognoseabschätzung nach neoadjuvanter Chemotherapie

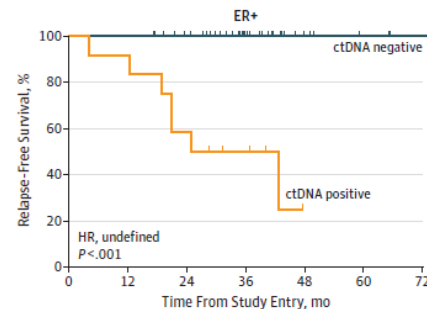
A At diagnosis



No. at risk	0	12	24	36	48	60	72
ctDNA negative	39	39	31	21	7	4	1
ctDNA positive	41	39	34	15	7	2	0

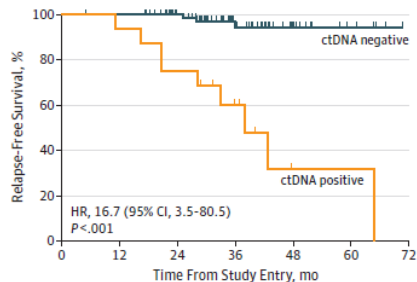


No. at risk	0	12	24	36	48	60	72
ctDNA negative	48	47	39	19	9	4	0
ctDNA positive	7	7	5	3	1	1	0

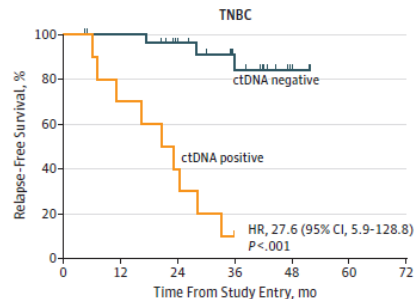


No. at risk	0	12	24	36	48	60	72
ctDNA negative	39	39	34	20	6	3	1
ctDNA positive	12	11	7	4	0	0	0

B Follow-up



No. at risk	0	12	24	36	48	60	72
ctDNA negative	85	84	68	36	16	7	1
ctDNA positive	16	15	12	6	1	1	0



No. at risk	0	12	24	36	48	60	72
ctDNA negative	28	26	20	12	3	0	0
ctDNA positive	10	7	4	0	0	0	0

Katherine Studie - postneoadjuvant

- cT1-4/N0-3/M0 at presentation (cT1a-b/N0 excluded)
- Centrally confirmed HER2-positive breast cancer
- Neoadjuvant therapy must have consisted of
 - **Minimum of 6 cycles of chemotherapy**
 - Minimum of 9 weeks of taxane
 - Anthracyclines and alkylating agents allowed
 - All chemotherapy prior to surgery
 - **Minimum of 9 weeks of trastuzumab**
 - Second HER2-targeted agent allowed
- **Residual invasive tumor in breast or axillary nodes**
- Randomization within 12 weeks of surgery

R
1:1
N=1486

T-DM1
3.6 mg/kg IV Q3W
14 cycles

Trastuzumab
6 mg/kg IV Q3W
14 cycles

Radiation and endocrine therapy
per protocol and local guidelines

Charakteristika:

- HR pos
72%
- Vortherapie Trastuzumab / Pertuzumab
18%
- ypT1a, ypT1b or ypT1mic and ypN0)
21%

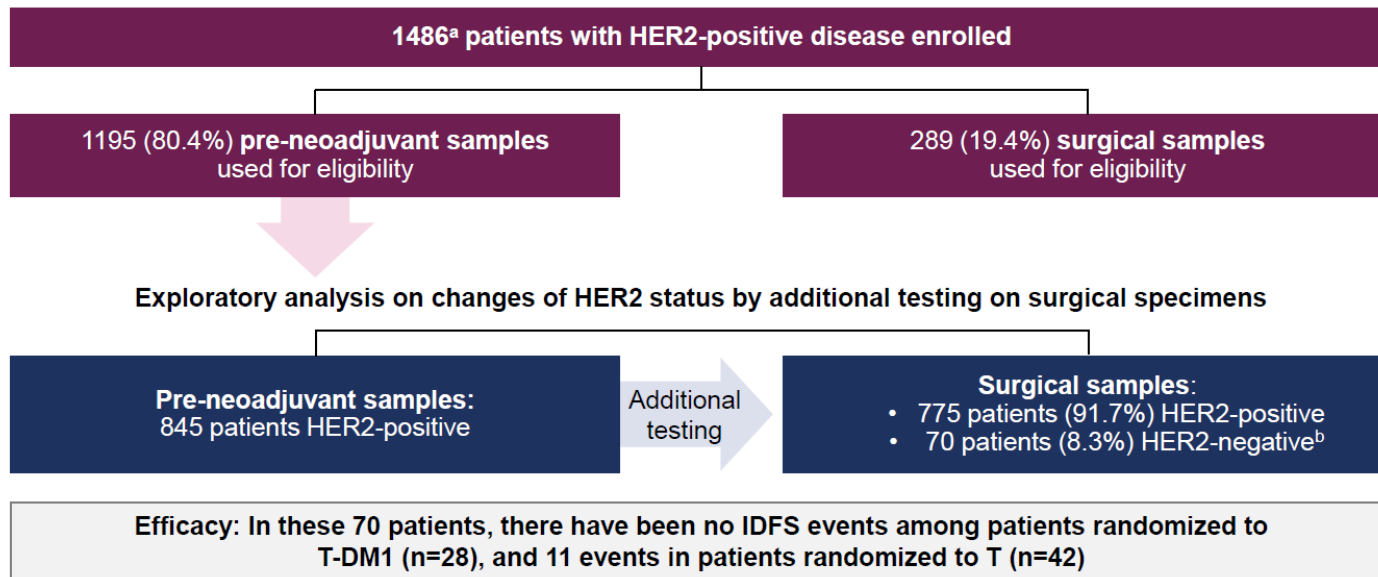
Katherine Studie - Ergebnisse

	T-DM1	Trastuzumab	Δ	HR	P-Wert
3 J-IDFS (%)	88.3	77	11	0.5	$P < 0.0001$
3 J-DDFS (%)	89.7	83	7	0.6	
3 J-OS (%)	94.3	92.5	1.8	0.7	$P = 0.0848$

Effekt auch bei:

Pertuzumab Vortherapie
Residualtumor < 1cm und ypN0

PATIENTS WITH HER2-NEGATIVE DISEASE AT SURGERY



Access slides at: <https://bit.ly/3dYtoIk>

ESMO BREAST CANCER 2020
VIRTUAL MEETING

^aTwo patients (both in T arm) are not included in this analysis: One did not have centrally confirmed HER2-positive disease and one was inadvertently randomized twice.
^b53 HER2-negative and 17 HER2-unknown by IHC 0-1+/ISH unknown.

Zusammenfassung

- Ein Teil der Pat mit einer pCR haben ein erhöhtes Rezidivrisiko
- Neue molekulare Marker (ctDNA) prä aber v.a. posttherapeutisch
 - zeigen ein erhöhtes Rezidivrisiko an
 - Identifizieren Pat ohne pCR und trotzdem guter Prognose
- Bestimmung neuer molekularer Marker bieten Möglichkeit einer zielgerichteten postneoadjuvanten Therapie
- Bisher noch keine Evidenz für die Wirksamkeit einer postneoadjuvanten molekular gerichteten Therapie
- HER2 Untersuchung des postneoadjuvanten Residualtumors war nicht wegweisend
Bitte nicht auf eine effektive Therapie verzichten!!!!

