

# Status for nationale forsøg

Medicinsk Udvalg

# Status for (inter)ationale forsøg

## (Neo)adjuverende

**MASTER.** A randomized, multicenter, double-blind phase III, placebo-controlled comparison of standard (neo)adjuvant therapy plus placebo versus standard (neo)adjuvant therapy plus atorvastatin in patients with early breast cancer.

**Nordic Trip Trial (NTT)** . A Translational Randomized Phase III Study Exploring the Effect of the Addition of Capecitabine to Carboplatin Based Chemotherapy in Early "Triple Negative" Breast Cancer

**CryoPAC** . Et åbent randomiseret fase 2 forsøg med kølehandske og sokker overfor ingen forebyggelse i forbindelse med adjuverende paclitaxel.

**Astefania.** (adj TDM1 +/- atezolizumab til HER2 pos. ptt med non-PCR efter neoadjuverende behandling.

**Destiny 05.** Post-neoadjuvant trastuzumab deruxtecan (T-DXd) versus T-DM1 in patients with residual invasive disease following neoadjuvant therapy. Et randomiseret fase III forsøg hos patienter med HER2 positiv brystkræft.

**CheckMate 7FL. El. NeoNivo** Neoadjuverende nivolumab versus placebo . Et randomiseret fase III forsøg hos patienter med ER postiv og HER2 negativ brystkræft.

**ALEXANDRA** . A randomized fase III study comparing atezolizumab (Anti PD-L1 Antibody) in combination with adjuvant anthracycline/taxane-based chemotherapy versus chemotherapy alone in patients with operable triple-negative breast cancer

## Metastaserende

**Destiny-06.** A study of Trastuzumab Deruxtecan (T-DXd) vs Investigator's Choice Chemotherapy in HER2-low, Hormone Receptor Positive, Metastatic Breast Cancer.

**Destiny-09** . Trastuzumab Deruxtecan (T-DXd) With or Without Pertuzumab Versus Taxane, Trastuzumab and Pertuzumab in HER2-positive Metastatic Breast Cancer.

**BO41843/Giredestrant** (oral SERD) (A Phase III, randomized, double-blind, placebo-controlled, multicenter study evaluating the efficacy and safety of GDC-9545 combined with palbociclib compared with letrozole combined with palbociclib in patients with ER-positive, HER2-negative locally advanced (recurrent or progressed) or metastatic breast cancer.)

**INAVO 120/Inavolisib** . Phase III study evaluating the efficacy and safety of Inavolisib + Palbociclib + Fulvestrant vs Placebo + Palbociclib + Fulvestrant in patients with PIK3CA-mutant, HR+ HER2-Negative, Locally Advanced or Metastatic Breast Cancer.

**PostMONARCH** . Phase III study of fulvestrant +/- abemaciclib following progression om a CDK4/6i + endocrine therapy.

**ImmunoBreast** - A Phase Ib Study Phase Ib, open-label, single-arm, clinical study to determine the safety, tolerability and trends of efficacy of ALECSAT as an add-on therapy to standard treatment with carboplatin and gemcitabine in female patients with locally advanced inoperable or metastatic TNBC, which has received no more than two prior systemic therapies for mTNBC, max 2 prior lines for mBC (Investigator initieret)

**CAPItello-292** : A Phase Ib/III Randomised Study of Capivasertib plus Palbociclib and Fulvestrant versus Placebo plus Palbociclib and Fulvestrant in Hormone Receptor-Positive and Human Epidermal Growth Factor Receptor 2-Negative Locally Advanced, Unresectable or Metastatic Breast Cancer (CAPItello-292).

# Adjuverende To nationale - et nordisk

**MASTER.** A randomized, multicenter, double-blind phase III, placebo-controlled comparison of standard (neo)adjuvant therapy plus placebo versus standard (neo)adjuvant therapy plus atorvastatin in patients with early breast cancer.

**Nordic Trip Trial (NTT)** . A Translational Randomized Phase III Study Exploring the Effect of the Addition of Capecitabine to Carboplatin Based Chemotherapy in Early "Triple Negative" Breast Cancer

**CryoPAC** . Et åbent randomiseret fase 2 forsøg med kølehandske og sokker overfor ingen forebyggelse i forbindelse med adjuverende paclitaxel.

# Early breast cancer statin trial the master trial

*A randomized, multicenter, double-blind, placebo-controlled comparison of standard (neo)adjuvant therapy plus placebo versus standard (neo)adjuvant therapy plus atorvastatin in patients with early breast cancer*

**M**Ammary cancer **S**Tatin **E**R positive trial

# Breast Cancer and Statins, in general

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## **EPIDEMIOLOGY:**

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Observational studies have demonstrated lower breast cancer recurrence and breast cancer- specific mortality among statin users<sup>1-3</sup>

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## ***IN VITRO :***

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In breast cancer cell lines, statins inhibit proliferation and induce apoptosis<sup>4-5</sup>

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## ***IN VIVO :***

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In mouse models, statins inhibit cancer growth<sup>6</sup>

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## **IN HUMANS:**

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In breast cancer patients, statins decrease proliferation

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and increase apoptosis/cell death in tumors<sup>7-8</sup>

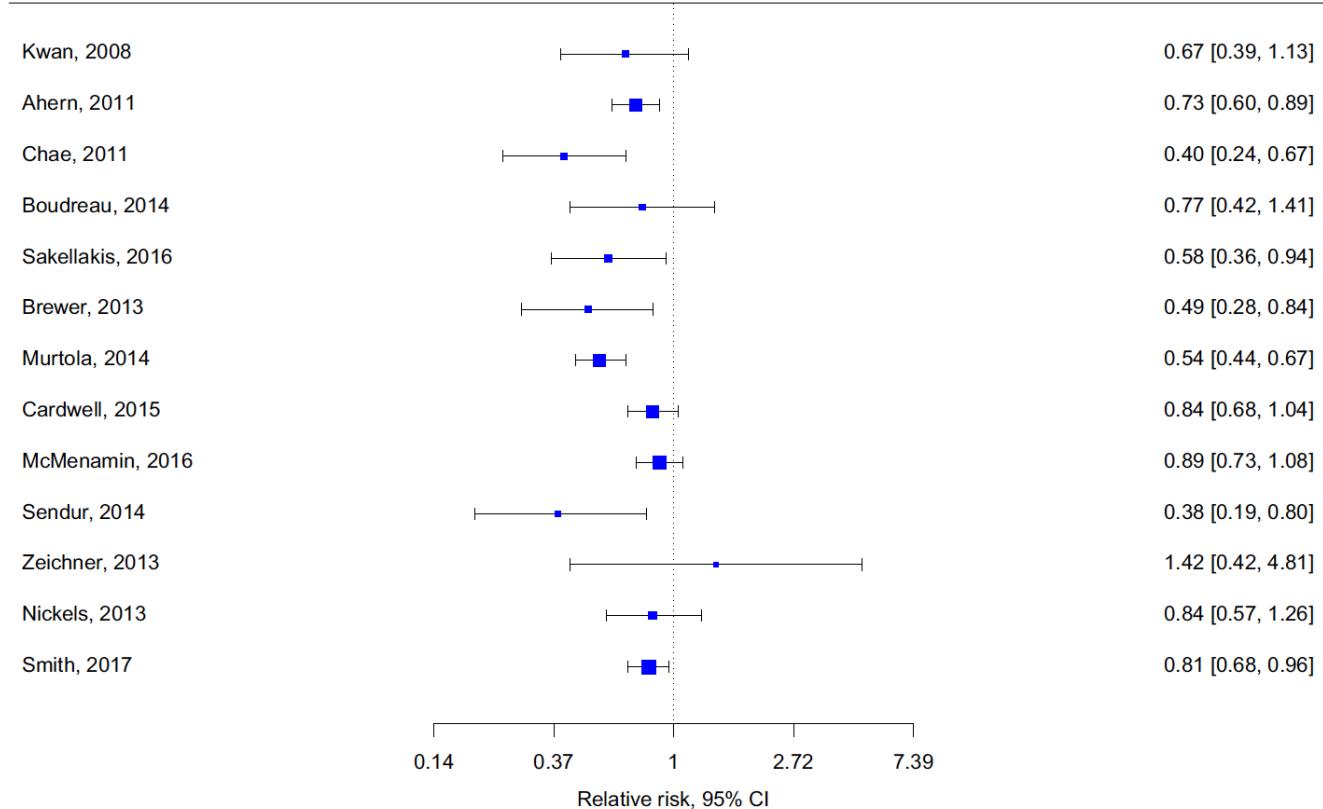
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1) Nielsen et al., NEJM 2012 2) Murtola et al., PLOS ONE 2014 3) Ahern et al., Lancet Oncol 2014 4) Spampinato et al., Int J Oncol 2012 5) Koyuturk et al., Cancer Letter 2007 6) Campbell et al., Cancer Res 2006 7) Garwood et al., Breast Cancer Res Treat 2010 8) Wang et al., Oncotarget 2015

# STATINS and BC-prognosis

JIM

Statins as medication in breast cancer / S. Borgquist et al.



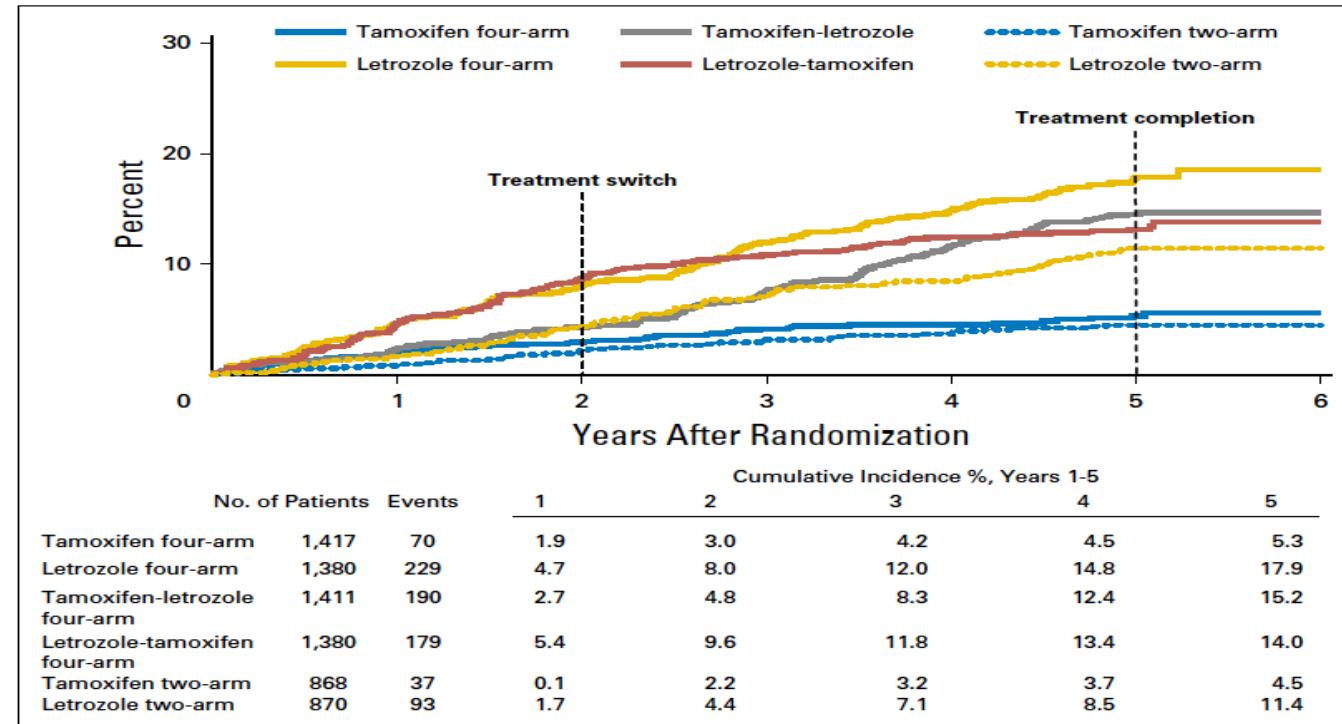
**Fig. 2** The prognostic value of statin treatment in the adjuvant breast cancer setting illustrated by a forest plot of the currently reported studies.

# Endocrine treatment

## Different effects on cholesterol levels – and initiation of cholesterol lowering medication

### RESULT:

Letrozole treated patients more often initiated cholesterol lowering medication - compared to tamoxifen treated patients



# Cholesterol, cholesterol lowering medication, and breast cancer outcome

**Table 4.** Marginal Structural Modeling Results of Initiation of CLM During Endocrine Treatment and Outcome Among All Treatment Arms

Variable	No.	HR	95% CI	P
No. of patients	5,944			
No. of DFS events	1,432			
No. of patients reporting CLM initiation during protocol therapy	697			
DFS model results				
Univariable weighted*		0.81	0.67 to 0.97	.02
Multivariable weighted†		0.79	0.66 to 0.95	.01
No. of BCFI events	940			
No. of patients reporting CLM initiation during protocol therapy	697			
BCFI model results				
Univariable weighted*		0.77	0.61 to 0.97	.03
Multivariable weighted†		0.76	0.60 to 0.97	.02
No. of DRFI events	729			
No. of patients reporting CLM initiation during protocol therapy	697			
DRFI model results				
Univariable weighted*		0.75	0.57 to 0.98	.04
Multivariable weighted†		0.74	0.56 to 0.97	.03

## RESULT:

Patients initiating CLM had a significant improved prognosis compared to those without CLM

# Cholesterol, Cholesterol Lowering Medication Use, and Breast Cancer Outcomes in the BIG 1-98 Study



## IN CONCLUSION

- Serum cholesterol levels decreased during therapy with tamoxifen
- The incidence of CLM treatment was greatest during therapy with letrozole
- Cholesterol-lowering medication during endocrine treatment appears to have a favorable impact on DFS, BCFI and DRFI

# MASTER trial, OBjectives



- **PRIMARY OBJECTIVE:**
  - To compare invasive disease-free survival (IDFS) in patients randomized to standard (neo)adjuvant therapy plus placebo or standard (neo)adjuvant therapy plus atorvastatin
- **SECONDARY OBJECTIVES:**
  - - To compare overall survival (OS), recurrence-free interval (RFI), distant recurrence-free interval (DRFI) including associations with first site of recurrence, cardiac death-free interval, and overall safety in the two treatment arms.
  - - To investigate morbidity endpoints
  - - To address translational endpoints

# MASTER trial design obs: OBSERVATIONAL COHORT



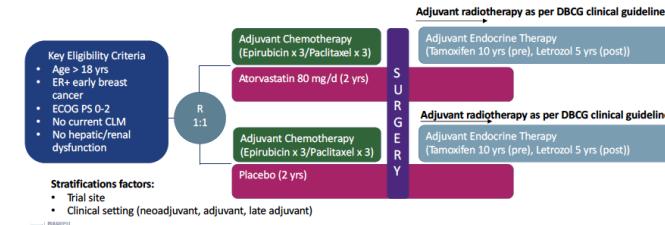
**Non-randomized patient cohort  
on any cholesterol-lowering  
medication at diagnosis**

**Patients eligible for MASTER –  
any clinical setting:**

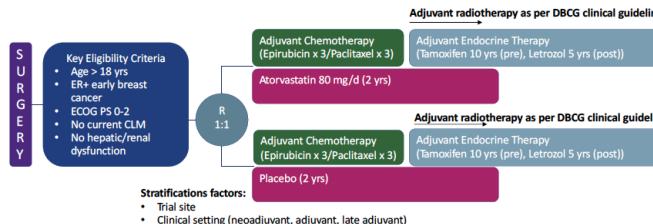
**Participation in observational  
cohort:**

1. CRF
2. PRO
3. Blood samples

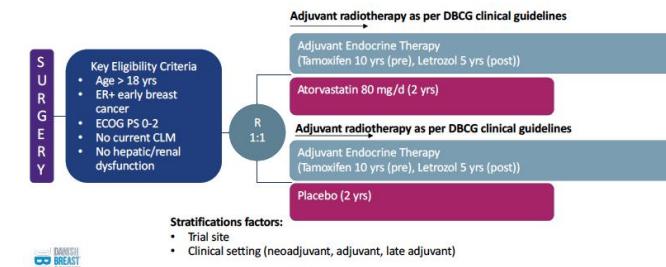
## MASTER TRIAL DESIGN, NEOADJUVANT



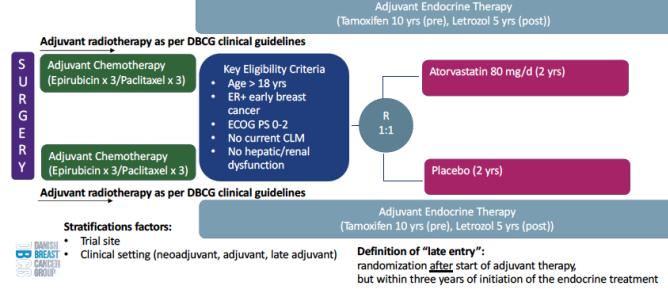
## MASTER TRIAL DESIGN, EARLY ADJUVANT



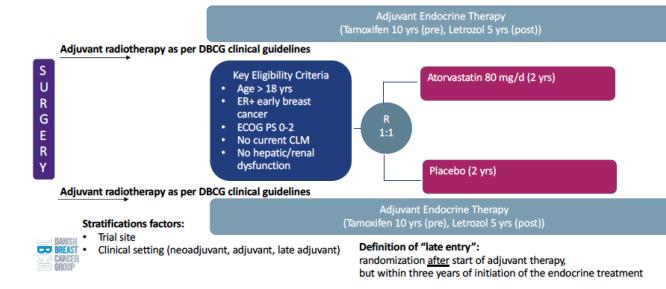
## MASTER TRIAL DESIGN, EARLY ADJUVANT, ET ONLY



## MASTER TRIAL DESIGN, LATE ADJUVANT



## MASTER TRIAL DESIGN, LATE ADJUVANT, ET ONLY



# MASTER trial, PRO-CTCAE



**NATIONAL CANCER INSTITUTE**  
Division of Cancer Control & Population Sciences

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## The PRO-CTCAE Measurement System

/ Data & Tools / PRO-CTCAE™ / The PRO-CTCAE Measurement System

**PRO-CTCAE™**

Overview

The PRO-CTCAE Measurement System

Background

Development, Testing, and Implementation

Language Translation: Methods and Certificates +

Release Notes

Instrument & Form Builder +

Terms of Use

Development Team

The NCI Patient Reported Outcomes-Common Terminology Criteria for Adverse Events (PRO-CTCAE) is a new patient-reported outcome measurement system developed to characterize the frequency, severity and interference of 78 symptomatic treatment toxicities. These include symptomatic toxicities such as pain, fatigue, nausea, and cutaneous side effects such as rash and hand-foot syndrome, all toxicities that can be meaningfully reported from the patient perspective.

The PRO-CTCAE measurement system consists of an item library of adverse symptoms, and a prototype electronic platform with a variety of features designed to promote integration of the PRO-CTCAE measurement system into clinical trials workflow. The system allows for data collection via the web, a hand-held computer, or an interactive voice-response system, and includes features that allow for customized PRO-CTCAE questionnaires, tailoring the schedule for data collection, as well as patient reminders and clinician alerts for severe symptoms.

Development and validation of PRO-CTCAE were consistent with well-established measurement principles as well as guidelines for patient-reported outcomes instrument development proposed by the US Food and Drug Administration (FDA) and European Medicines Agency (EMA). The development process included patients with cancer as well as professionals from the US and Europe with expertise in oncology, instrument development, clinical research and the regulatory aspects of cancer therapy development.

Each of the 78 symptom terms included in the PRO-CTCAE item library (PDF 1.29 KB) is assessed relative to one or more



### NCI- PRO-CTCAE™ ITEMS

Item Library Version 1.0

Når man er i behandling for sin kræftsygdom, oplever man sommetider forskellige symptomer og bivirkninger. For hvert spørgsmål, venligst marker det følt eller sæt et X i den boks, som bedst beskriver dine oplevelser i de seneste 7 dage.

#### 1. PRO-CTCAE™ Symptom Term: Dry mouth

##### MUNDTØRHED

Inden for de seneste 7 dage, hvad var SVÆRHEDSGRADEN af MUNDTØRHED da det var VÆRST?				
<input type="radio"/> Ingen	<input type="radio"/> Mild	<input type="radio"/> Moderat	<input type="radio"/> Kraftig	<input type="radio"/> Meget kraftig

#### 2. PRO-CTCAE™ Symptom Term: Difficulty swallowing

##### SYNKEBESVÆR

Inden for de seneste 7 dage, hvad var SVÆRHEDSGRADEN af SYNKEBESVÆR da det var VÆRST?				
<input type="radio"/> Ingen	<input type="radio"/> Mild	<input type="radio"/> Moderat	<input type="radio"/> Kraftig	<input type="radio"/> Meget kraftig

#### 3. PRO-CTCAE™ Symptom Term: Mouth/throat sores

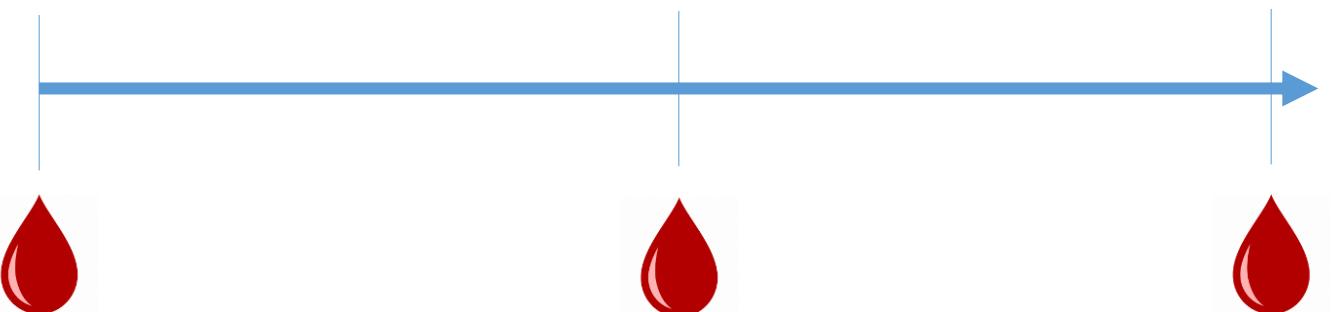
##### SÅDÆLLER/LESIONER I SLUMLUNDEN/L MUND/THER SYKTE

# MASTER trial, Translational blood



**Serum, plasma and whole-blood collected at baseline and during follow-up (year 1, year 2)**

Analyzed for prognostic and predictive markers, i.e. LDL, HDL, cholesterol, triglycerides, Apo-A, and Apo-B, HMGCR SNP's, circulating antibodies and circulating tumor-DNA.



# Første patientinklusion d. 14. januar 2021 (- 3352 to go ☺)

**MASTER, Status pr. 01.01.2022**

		2021												I alt	Strata		
		Jan	Feb	Mar	Apr	Maj	Jun	Jul	Aug	Sep	Okt	Nov	Dec		1: Neo	2: Adj Early	3: Adj Late
	RAND																
Rigshospitalet		-	-	-	-	-	-	-	-	-	-	-	1	1	0	1	0
Sønderborg		-	-	-	-	-	5	4	3	7	9	12	10	50	1	10	39
Esbjerg		-	-	-	-	-	-	-	-	-	-	5	2	7	0	2	5
Vejle		-	-	-	-	1	2	1	2	2	0	1	1	10	1	4	5
Herning		-	-	-	-	-	4	8	7	2	6	7	6	40	3	20	17
Aarhus		3	4	12	8	12	20	12	10	12	8	7	3	111	7	41	63
I alt		3	4	12	8	13	31	25	22	23	23	32	<b>23</b>	<b>219</b>	<b>12</b>	<b>78</b>	<b>129</b>
	SELV																
Sønderborg		-	-	-	-	-	4	3	2	2	1	3	2	17			
Vejle		-	-	-	-	-	-	-	1	1	0	0	0	2			
Aarhus		0	2	1	4	4	4	3	1	4	4	5	0	32			
I alt		0	2	1	4	4	8	6	4	7	5	8	<b>2</b>	<b>51</b>			

# Nordic Trip Trial

- Sverige; 18 sites
- Danmark; Aalborg, Aarhus, Vejle (Esbjerg),  
Sønderborg, OUH, Næstved, RH (BOH),  
Herlev og Hillerød
- Finland; 1 site
- Island; 1 site





NTT

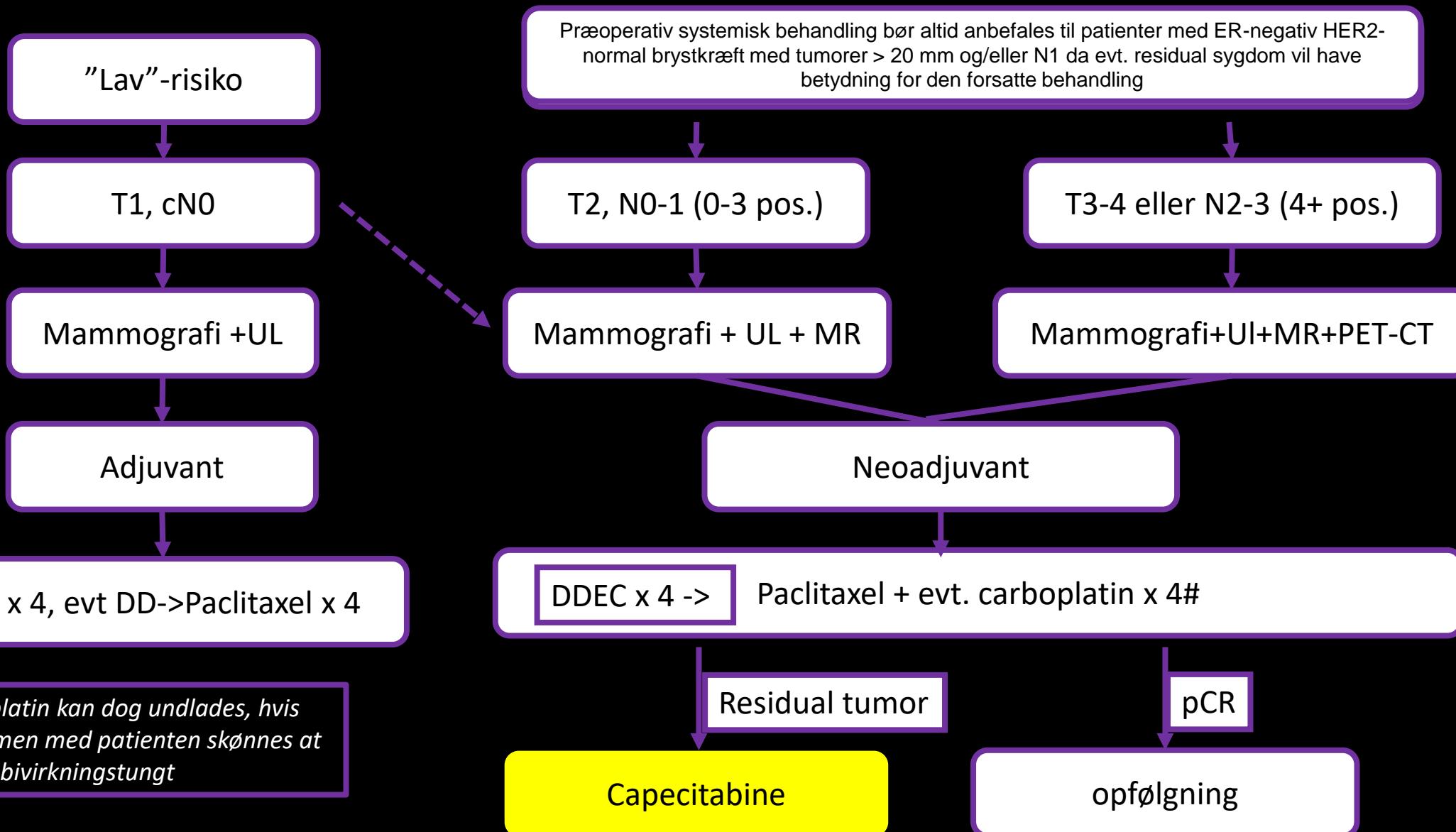


**Nordic Trip/NBG-19-01, a translational randomized phase III study exploring the effect of the addition of capecitabine to carboplatinum based chemotherapy in early “triple negative” breast cancer.**

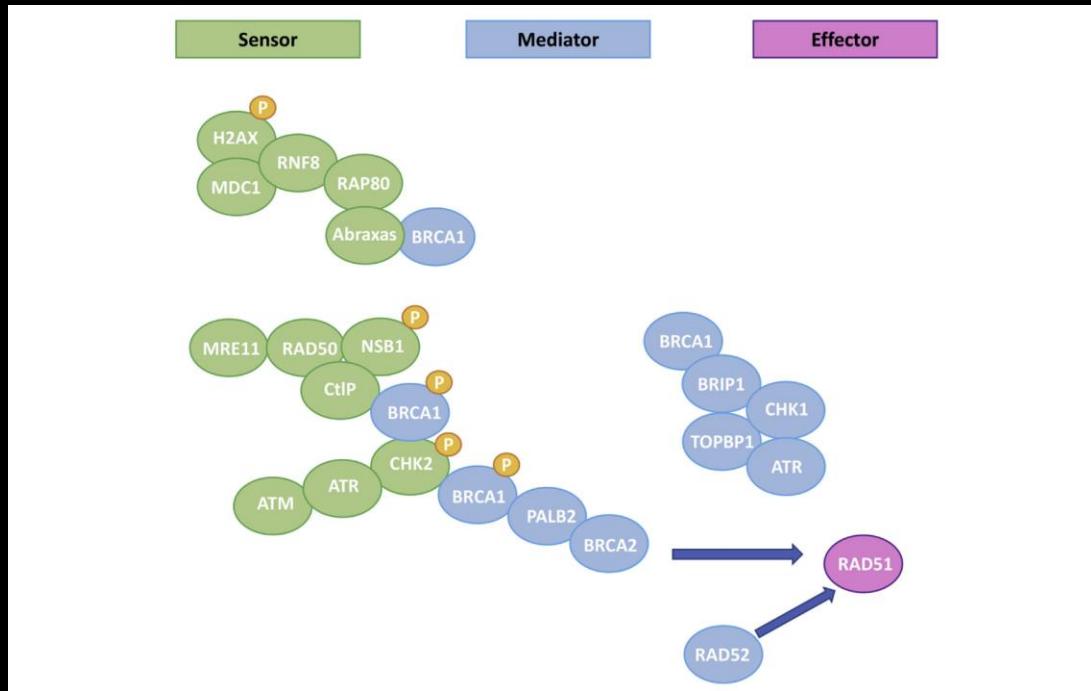
# NACT til patienter med tripple-negativ brystkræft

- Heterogen gruppe, udgør 9-12% af brystkræfttilfælde
- Direkte korrelation mellem pCR og prognose:
  - Metaanalyse: Bedre event-free survival og OS, hvis CR på NACT
- Oftest ret kemo-sensitiv - pCR 30-40 % på standard antracycklin og taxan – ca. 60% med tillæg af carboplatin
- NACT er standardbehandling til patienter med tumorer større end 2 cm og/eller N+
- Og

# Basal-like/ER-,HER2-



# Homologous Repair Deficiency - HRD



- 50-75% har defekt DNA-repair.
- Har patienter med HRD bedre effekt af kemoterapi og bedre IDFS – mål for kemosensitivitet?
- Kan tillæg af capecitabine til carboplatin-baseret præoperativ kemoterapi øge pCR-raten?
  - IDFS (Invasive Disease Free Survival)
  - BCSS (Breast Cancer Specific Survival)
  - DRFS (Distant Recurrence Free Survival)
  - OS (overall Survival)

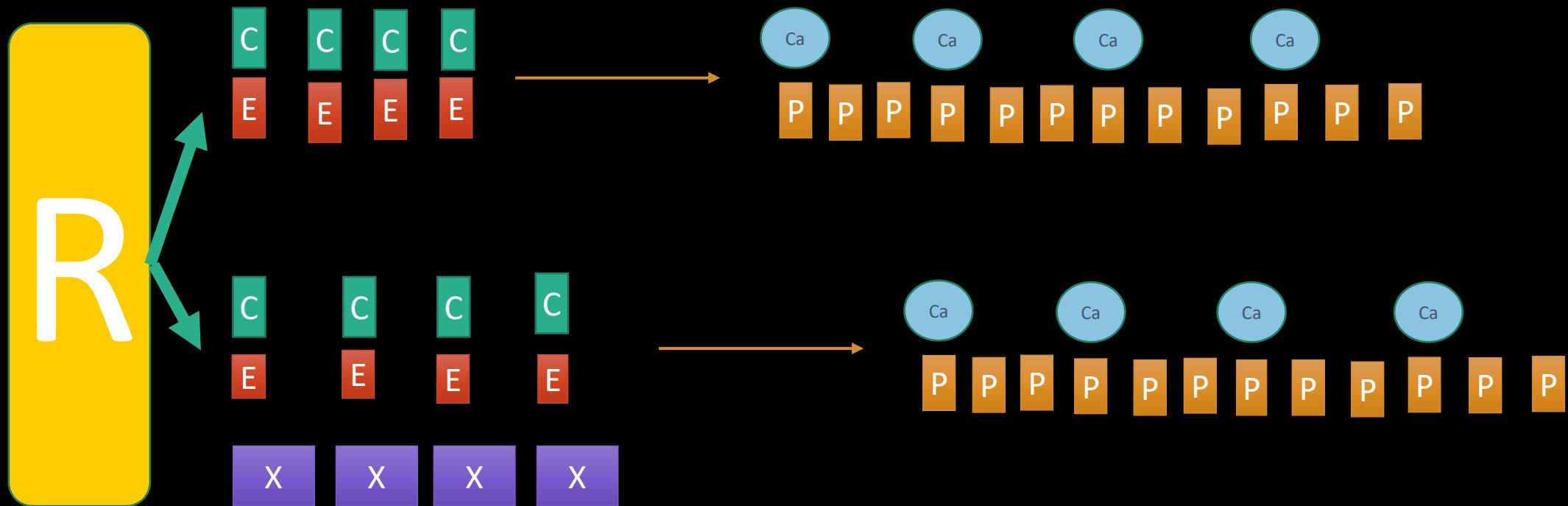
Yderlige translationelle endpoints, bl.a.:

Sammenligne pCR-rate i 2 behandlingsarme i forskellige TNBC subtyper:

BRCA deficiency

Germline vs somatisk vs epigenetisk tab af BRCA funktion

# Design



# Pragmatisk studie

Udredning og behandling stort set "som vi plejer":

- Mammografi
- MR-Mammae før start, efter 2 serier og præoperativt
- PET-CT hvis node-pos
- Iodkorn mv iht alm praksis biopsi som vi plejer + biopsi til projekt
- Genetisk udredning
- Ct DNA - Genomisk Medicin på RH ansvarlig i DK

# Randomisering

- Randomisering vil ske i forholdet 1:1 mellem de to behandlingsarme A og B, stratificeret for land, N-status and T-status.

## DBCG- modul

The screenshot shows the DBCG-modul interface with a sidebar on the left and a main content area on the right.

**Left Sidebar (Forside):**

- Forside
- Indtast CPR
- Mammakema
- Mammakema\_før\_2020
- Patient Info
- Kirurgi
- Kirurgi\_før\_2020
- Patologi
- Patologi\_før\_2020
- Onkologi
- Metastaserende
- Strålebehandling
- Off Study
- DCIS/LCIS
- Ryktere
- Randomisering** (highlighted with a red oval)

**Main Content Area:**

### Randomisering

Er randomiseret

DBCG Randomisering (Antal tilbage / Totale antal)

RT18\_RECON (/)  
RT18\_NAT  
RT15\_SKA  
MASTER  
RT20\_PROTON  
NBG19NTT

Indberetning af Randomisering

ALTTO  
APHINITY  
RT\_SDM

Bestil flere randomiseringers numre

Email DBCG

Ingen protokol er valgt til fremvisning

Vis Randomiserings Oplysninger

Ingen protokol er valgt til randomisering

Lave Randomisering

Ingen protokol er valgt til indtastning

Indberet Randomisering

Ingen protokol er valgt til statistik

Statistik

A red arrow points from the "Lave Randomisering" button towards the "NBG19NTT" protocol name in the dropdown menu.

# The trip team

## Bidrag fra DBCG

### Randomisering & database

- Maj-Britt Jensen og Michael Jespersen
- DBCG er vært for databasen
- Kirurgi-, patologi-, og onkologidata overføres

### Monitoring

- Ann Raaberg, DBCG

### Vævsbiobank

- Anne-Vibeke Lænholm
- Roskilde er forsøgets centrale patologiafd.

### Genomisk Medicin på RH varetager forsøgsblodprøver på danske patienter



## Study team i Lund

- Niklas Loman, PI og sponsor
- Åke Borg, genomisk lab., Lund
- Heidi Grill Magnusson
- Lina Zander



## Laboratoriet i Göteborg

- Barbro Linderholm
- ctDNA lab. i Göteborg



# Patientantal og studieforløb

- Total 820 patienter hvoraf 250 fra Danmark
- **Per dec.21 – 81 patienter randomiseret – 6 fra RH**
- Første patient blev inkluderet januar 2020
- Rekruttering forventes komplet efter 3 år
- Forventet dato for sidste patient afsluttet (behandling): 30. juni 2023
- **Behandlingsvarighed:** 20-23 uger
- **Follow-up:** 10 år



# CryoPac

*Effects of Cryotherapy  
on Objective and Subjective Symptoms  
of Paclitaxel-Induced Neuropathy  
in Patients with Early Breast Cancer.  
A Randomized Prospective Controlled Trial.*

The incidence of CIPN with paclitaxel and docetaxel is dose dependent and occurs with higher cumulative dose and higher dose per cycle.

The incidence of taxane-associated chemotherapy-induced peripheral neuropathy ranges from **11% to 64% for docetaxel** and **57% to 83% for paclitaxel**, which in 2–33% is severe. A patient-reported outcome study found that **CIPN numbness persisted in 67%–80%** of patients for one year following the completion of paclitaxel therapy .

**Der er nu aktiv inklusion på alle 4 sites**

- Nationalt har vi inkluderet 142 patienter.

	NOH	RH	AUH	SØNDERBORG
Åbnede for inklusion	uge 2, 2021.	uge 2, 2021.	uge 19, 2021.	Uge 22, 2021.
Antal patienter inkluderet:	32	67	41	2

**Der er ændringer på vej....**

- Inklusionskriterierne udvides til at omfatte patienter planlagt til 3 og 4 serier paclitaxel, samt 6 serier Docetaxel-Cyclofosfamid.
- Target sample size udvides til 300 patienter.
- Der arbejdes på at udvide med Herlev som endnu et site.
- VEK-tillægsgodkendelse forventes til feb. 2022.

## 4 TDX forsøg. Neoadjuverende + metastaserende

**Destiny-05.** Post-neoadjuvant trastuzumab deruxtecan (T-DXd) versus T-DM1 in patients with **residual invasive disease following neoadjuvant therapy.** Et randomiseret fase III forsøg hos patienter med HER2 positiv brystkræft.

**Destiny-06.** A study of Trastuzumab Deruxtecan (T-DXd) vs Investigator's Choice Chemotherapy in **HER2-low, Hormone Receptor Positive**, Metastatic Breast Cancer.

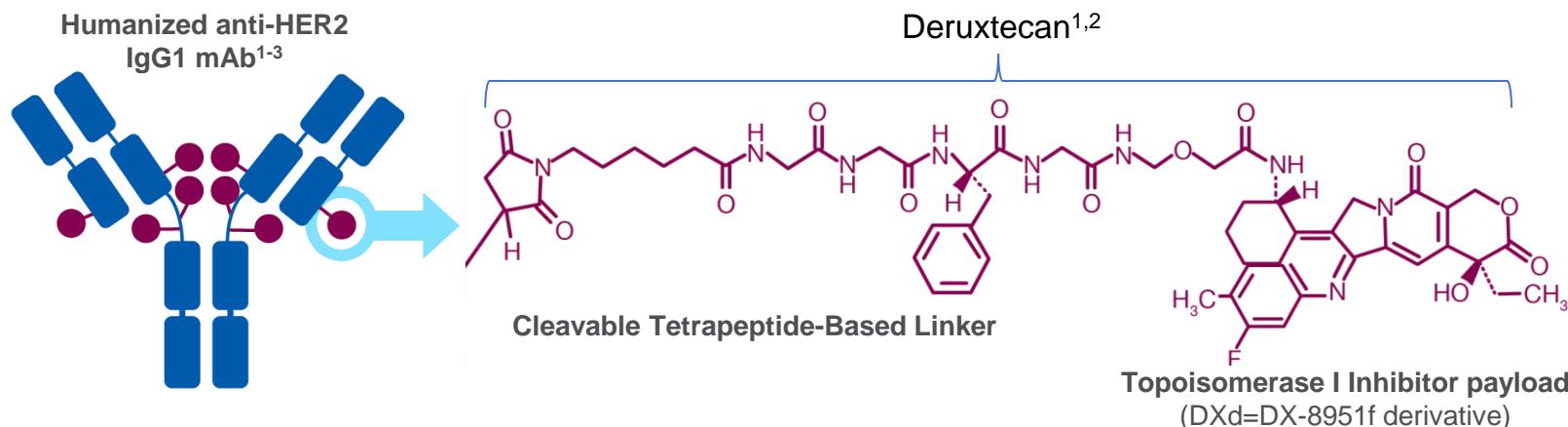
**Destiny-09.** Trastuzumab Deruxtecan (T-DXd) With or Without Pertuzumab Versus Taxane, Trastuzumab and Pertuzumab in HER2-positive Metastatic Breast Cancer.

**Destiny-12.** an open label phase **3b/4 multicenter**, multinational 2 cohort study for patients with or without brain metastasis in **pretreated HER2-positive metastatic breast cancer** who received no more than 2 lines/regimens of therapy in the metastatic setting (excluding tucatinib).

# T-DXd Was Designed With 7 Key Attributes

**T-DXd is an ADC composed of 3 components<sup>1,2</sup>:**

- A humanized anti-HER2 IgG1 mAb with the same amino acid sequence as **trastuzumab**, covalently linked to:
- A topoisomerase I inhibitor payload, an **exatecan** derivative, via
- A tetrapeptide-based cleavable **linker**



<sup>a</sup>The clinical relevance of these features is under investigation.

Payload mechanism of action:  
topoisomerase I inhibitor<sup>a,1,2</sup>

High potency of payload<sup>a,1,2</sup>

High drug to antibody ratio ≈ 8<sup>a,1,2</sup>

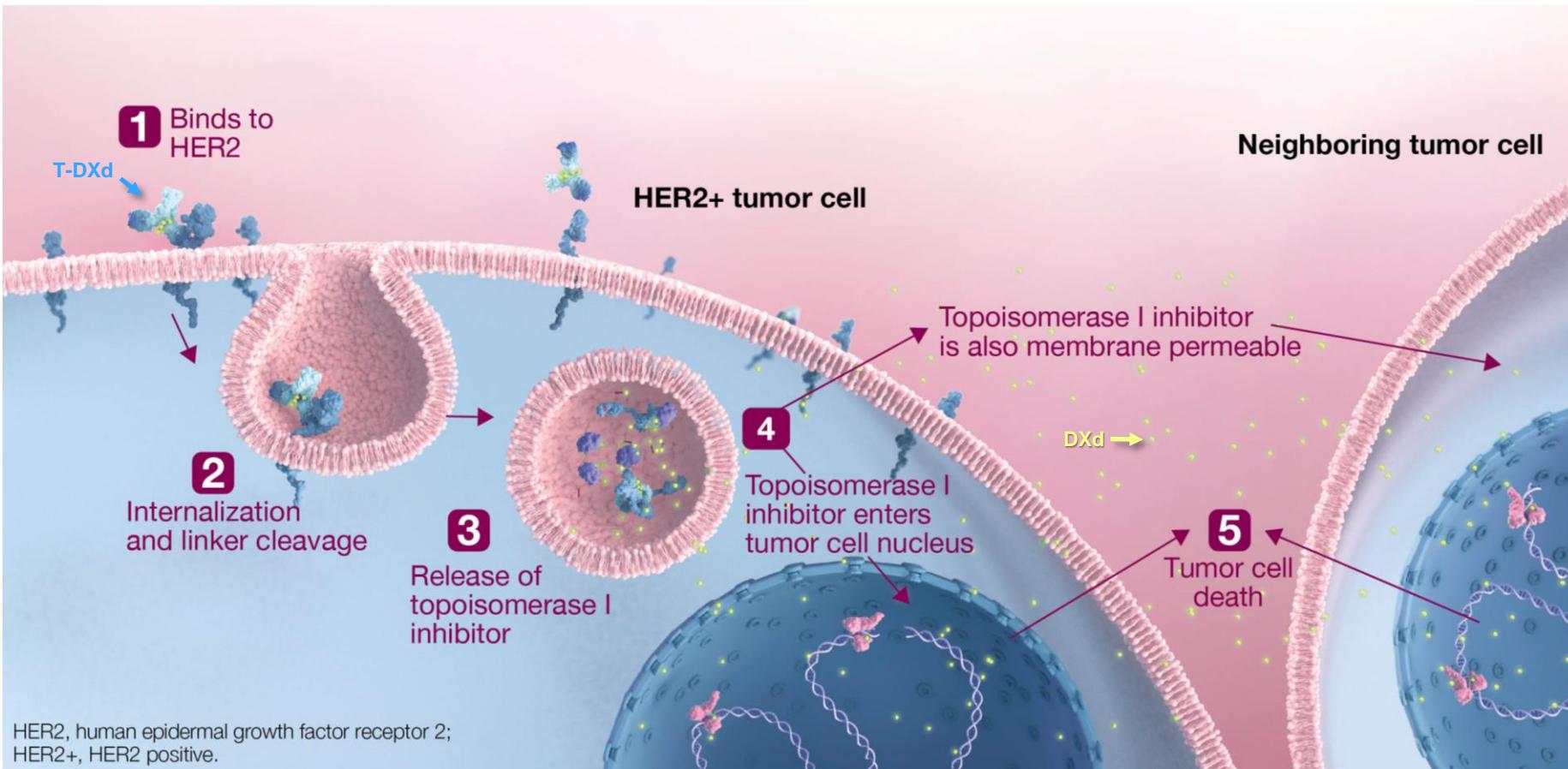
Payload with short systemic half-life<sup>a,1,2</sup>

Stable linker-payload<sup>a,1,2</sup>

Tumor-selective cleavable linker<sup>a,1,2</sup>

Bystander antitumor effect<sup>a,1,4</sup>

# Trastuzumab deruxtecan (T-DXd) allows for efficient delivery and release of the topoisomerase I inhibitor payload at the tumor site<sup>1-4</sup>



1. The mAb component of T-DXd selectively binds to HER2 expressed on the tumor cell surface
2. T-DXd is internalized by the cell and intracellular lysosomal enzymes upregulated in tumor cells cleave the peptide linker
3. The topoisomerase I inhibitor payload is released into the cytoplasm of the cell
4. The released payload enters the cell nucleus and causes damage to the tumor cell's DNA. The payload also has high-cell membrane permeability that enables elimination of both target tumor cells and the surrounding tumor cells
5. Damage to tumor cell DNA results in tumor cell death

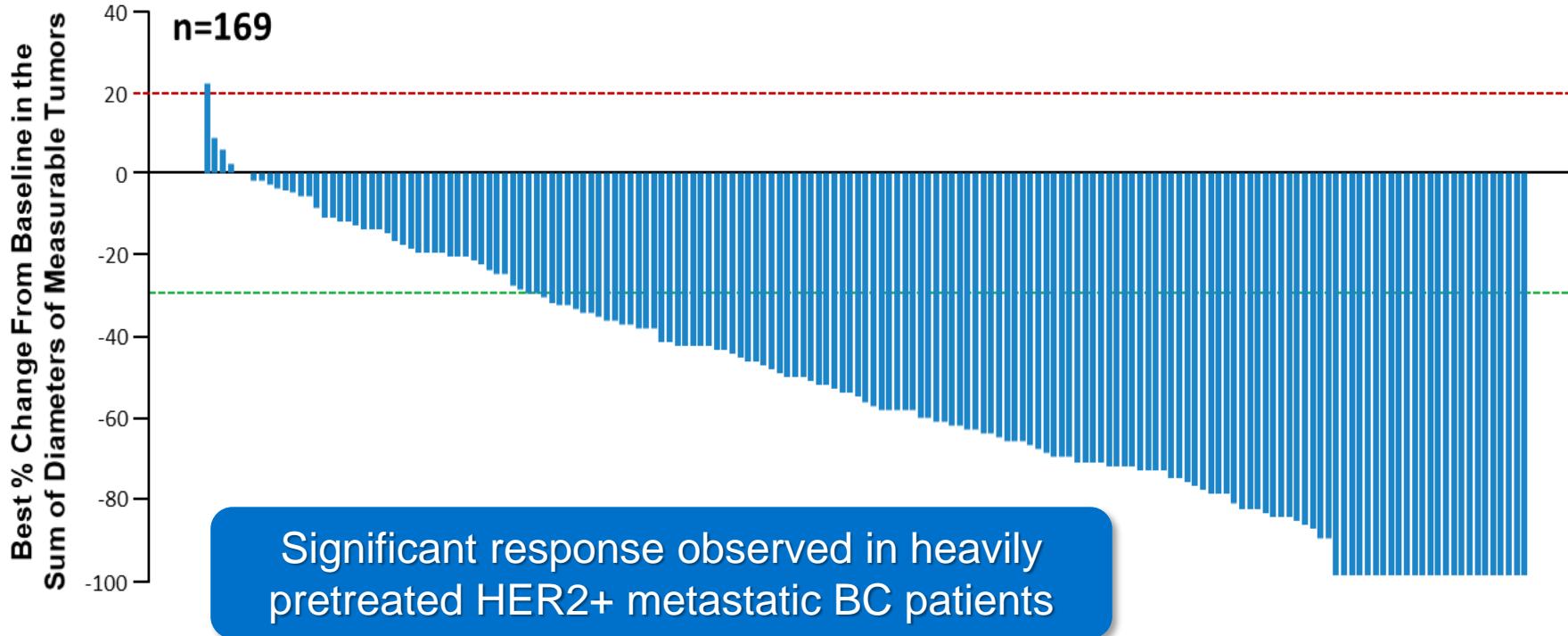
1. Ogitani Y, et al. *Clin Cancer Res.* 2016;22(20):5097-5108.

2. Ogitani Y, et al. *Cancer Sci.* 2016;107:1039-1046.

3. Supplement to: Ogitani Y, et al. *Cancer Sci.* 2016;107(7):1039-1046.

4. Nakada T, et al. *Chem Pharm Bull (Tokyo)*. 2019;67(3):173-185.

# Results from DESTINY-Breast01: T-DXd in HER2+ metastatic BC patients previously treated with T-DM1 in the advanced/metastatic setting<sup>1</sup>



Median # of prior cancer regimens (range): 6 (2-27)  
% previously treated with trastuzumab and T-DM1: 100

## EFFICACY

- Confirmed<sup>2</sup> ORR: 61.4%<sup>a</sup>  
(95% CI, 54.0%-68.5%);  
**12 CRs**
- DCR: 97.3%  
(95% CI, 93.8%-99.1%)
- Median DOR: 20.9 months  
(95% CI, 13.8-16.9)
- Median PFS: 19.4 months  
(95% CI, 14.1-NE)
- Median OS: 24.6 months  
(95% CI, 23.1-NE)

Data Cutoff: 8-Jun-2020

1. Modi S, et al. SABCS 2020; 2. By independent central review.

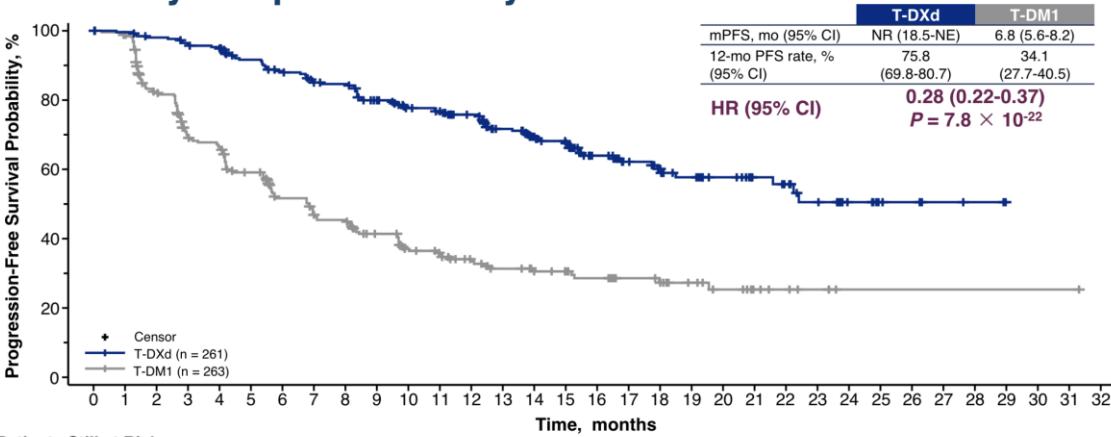
The line at 20% indicates progressive disease; the line at -30% indicates partial response.

a Includes all patients who received T-DXd 5.4 mg/kg (intent-to-treat analysis; N=184). One subject had a PR prior to the 08 Jun 2020 cutoff date which was confirmed after the cut-off date. The subject had a confirmed BOR of PR on the first PR date in the central data but was not included in the analysis of DoR.

BC=breast cancer; CR=complete response; DCR=disease control rate (CR + PR + SD); ORR=objective response rate (CR + PR); NE=not evaluable; PR=partial response; SD=stable disease.

# TDM1 vs. TDX. 2 linje HER2+ brystkraeft

## Primary Endpoint: PFS by BICR

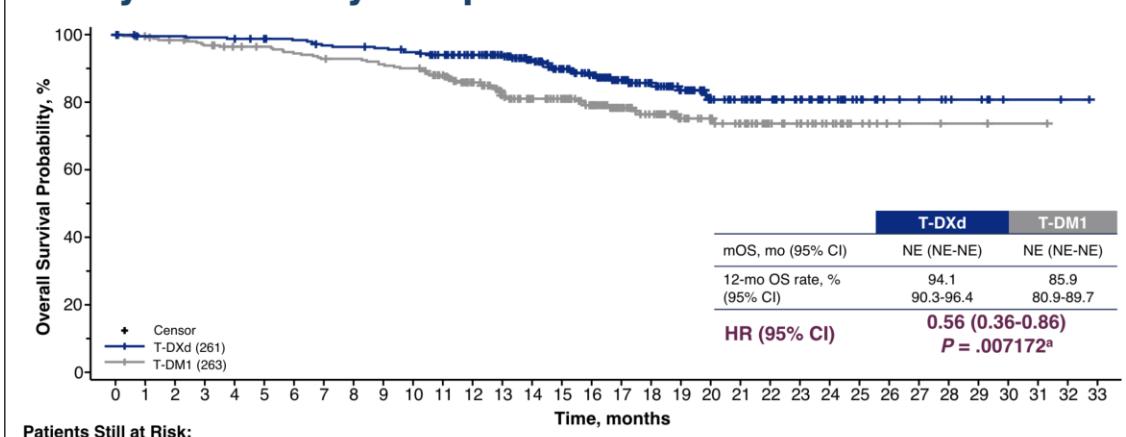


**Patients Still at Risk:**  
T-DXd (261) 261 256 250 244 240 224 214 202 200 183 168 164 150 132 112 105 79 64 53 45 36 29 25 19 10 6 5 3 2 0  
T-DM1 (263) 263 252 200 163 155 132 108 96 93 78 65 60 51 43 37 34 29 23 21 16 12 8 6 4 1 1 1 1 1 1 0

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Median PFS follow-up for T-DXd was 15.5 months (range, 15.1-16.6) and for T-DM1 was 13.9 months (range, 11.8-15.1)  
HR, hazard ratio; INV, investigator; mo, month; NE, not estimable; NR, not reached.

## Key Secondary Endpoint: OS



**Patients Still at Risk:**  
T-DXd (261) 261 256 250 255 254 251 249 244 243 241 237 230 218 202 180 158 133 108 86 71 56 50 42 33 24 18 11 10 7 6 2 2 1 0  
T-DM1 (263) 263 258 253 248 243 241 236 232 231 227 224 210 188 165 151 140 120 91 75 58 52 44 32 27 18 11 5 4 3 3 1 1 0

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Early OS data with relatively few events (33 in the T-DXd arm, 53 in the T-DM1 arm)  
<sup>a</sup> $P = .007172$ , but does not cross pre-specified boundary of  $P < .000265$

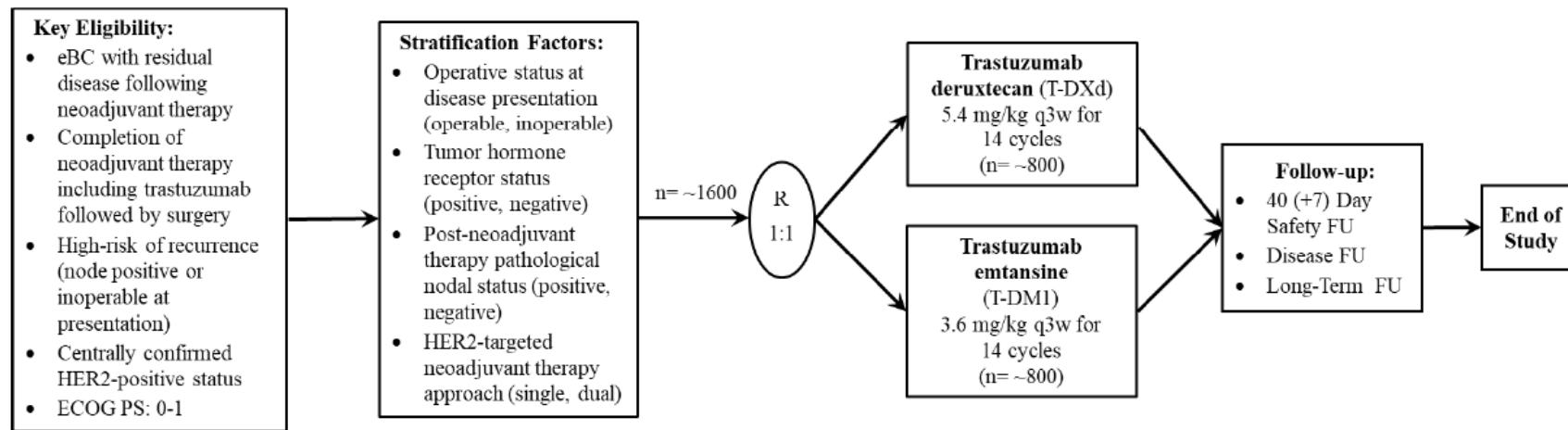
Så på et center  
nær jer

Et eller flere af forsøgene – pt kan henvises.

# Destiny-05 – post neoadjuverende

## 1.2. Study Schema

Figure 1.1: Study Level Flow Diagram



eBC=early breast cancer (defined as Stages T1–4, N0–3, M0); ECOG PS=Eastern Cooperative Oncology Group performance status; FU=Follow-up; HER2=Human epidermal growth factor receptor 2; R=randomization; q3w=every 3 weeks; T-DXd=trastuzumab deruxtecan (investigational agent); T-DM1=trastuzumab emtansine (control)

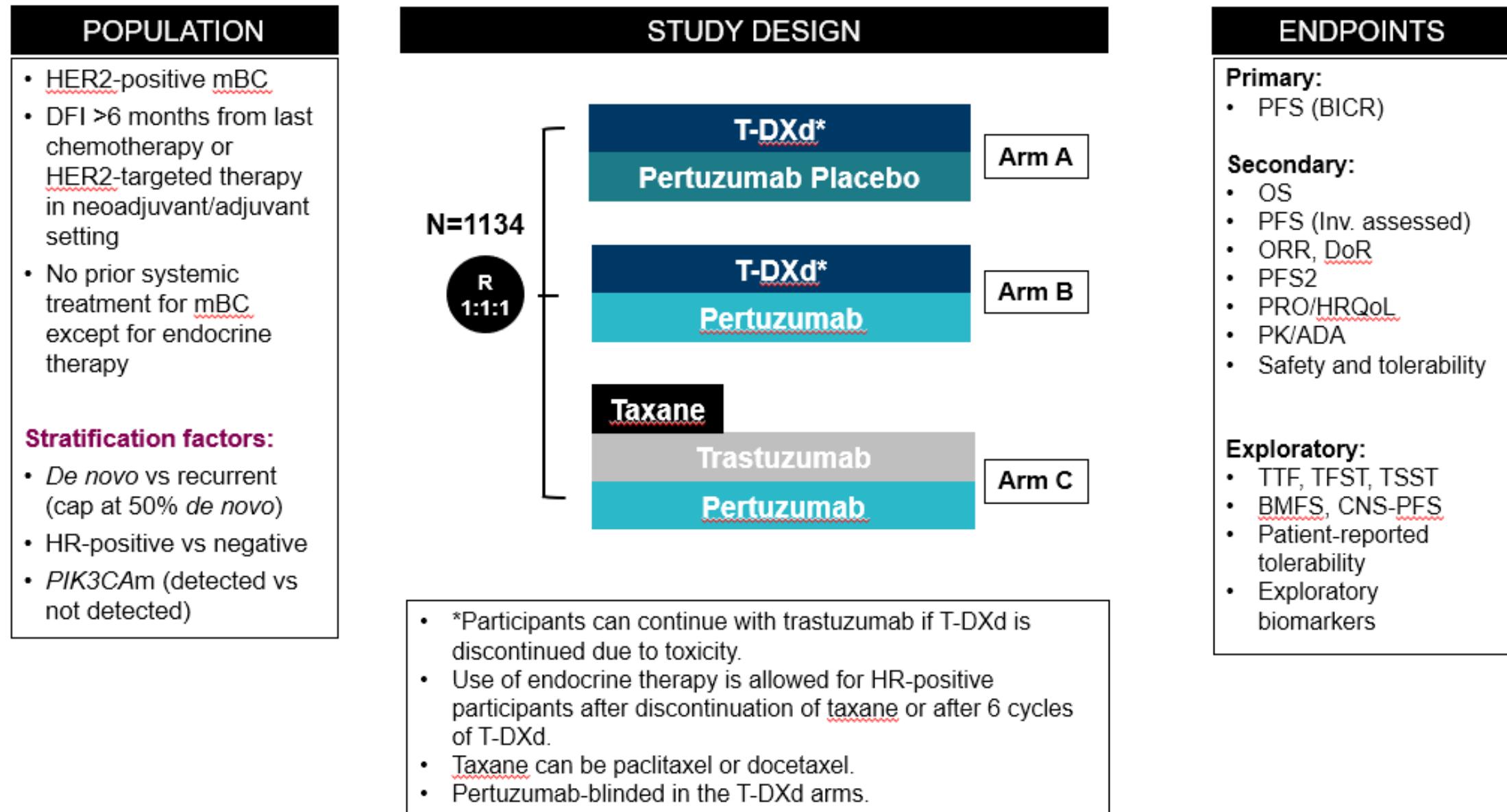
Operative status at presentation (prior to neoadjuvant therapy): Operable = clinical stages T1-3,N0-1,M0; Inoperable = clinical stages T4,N0-3,M0 or T1-3,N2-3,M0

# Destiny-06 – HER2low

POPULATION	TREATMENT	ENDPOINTS
<ul style="list-style-type: none"> <li>Advanced/metastatic HR+ breast cancer</li> <li>HER2 IHC &gt;0 or 1+ or 2+ (determined based on central IHC assessment of archival tissue collected at time of diagnosis of first metastatic disease or later)</li> </ul> <p><b>Prior lines of therapy in MBC:</b> Progression after 2 prior ET+/- targeted therapy, <b>or within 6 months of 1<sup>st</sup> line ET+CDK4/6i</b></p> <p><b>Stratification factors:</b></p> <ul style="list-style-type: none"> <li>Prior CDK4/6 inhibitor</li> <li>HER2 IHC 2+ v. 1+ v. &gt;0&lt;1+</li> <li>Prior taxane in non-metastatic setting</li> </ul>	<pre> graph LR     R((R)) -- "1:1" --&gt; TDXd[N=425]     R -- "1:1" --&gt; IC[Investigator's choice Chemotherapy N=425]     TDXd --&gt; TDXd_Box["T-DXd"]     IC --&gt; IC_Box["Investigator's choice Chemotherapy"]   </pre> <p><b>TREATMENT</b></p> <ul style="list-style-type: none"> <li>N=425</li> <li>T-DXd</li> <li>Investigator's choice Chemotherapy</li> </ul>	<p><b>Primary:</b></p> <ul style="list-style-type: none"> <li>PFS (BICR) in HER2-low population</li> </ul> <p><b>Key Secondary:</b></p> <ul style="list-style-type: none"> <li>OS in HER2-low population</li> <li>PFS in ITT population</li> <li>OS in ITT population</li> </ul> <p><b>Secondary:</b></p> <ul style="list-style-type: none"> <li>PFS (investigator assessed) in HER2-low population</li> <li>ORR and DOR of HER2-low and ITT populations</li> <li>Safety and tolerability</li> <li>Symptoms, functioning and HRQoL</li> </ul> <p><b>Exploratory:</b></p> <ul style="list-style-type: none"> <li>Protein Expression</li> <li>ctDNA</li> <li>Patient Reported Outcomes</li> </ul>

**Figure 1****Study Design**

Destiny-Breast 09



**Figure 1**

**Study Design**

**Destiny-Breast 12**

