

GBG

GERMAN
BREAST
GROUP



Heilung durch Innovation, Kompetenz und Partnerschaft

Response-adaptierte Therapie bei HER2 - positivem Karzinom- Katherine und APHINITY

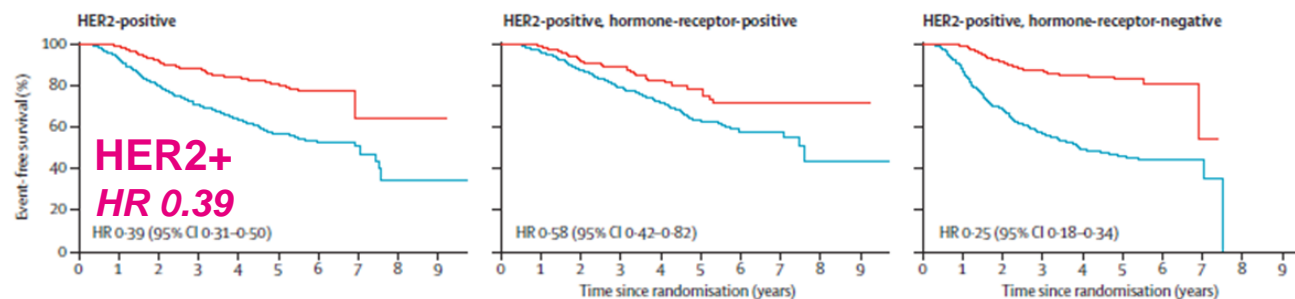
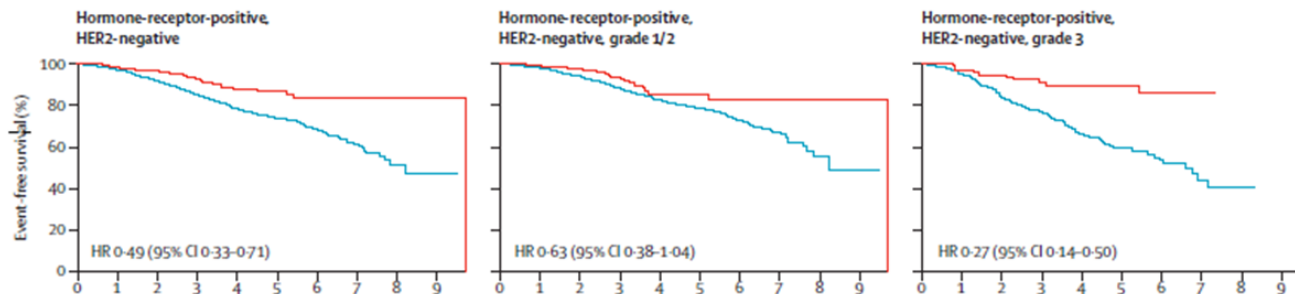
Dr. Claus Hanusch
Rotkreuz-Klinikum, München



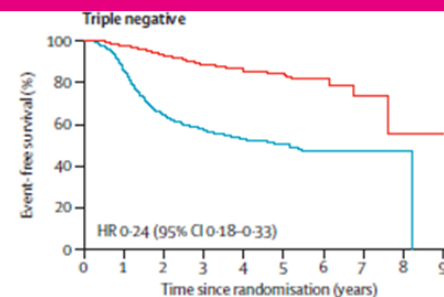
A randomized, multicenter, open label phase III study to evaluate the efficacy and safety of Trastuzumab Emtansine versus Trastuzumab as adjuvant therapy for patients with HER2-positive primary breast cancer who have residual tumor present pathologically in the breast or axillary lymph nodes following preoperative therapy.

BO27938 / NSABP B-50-I / GBG 77

pCR (ypT0/is ypN0) und Ereignis-freies Überleben nach NACT(±Trastuzumab) beim EBC (N=11.955)

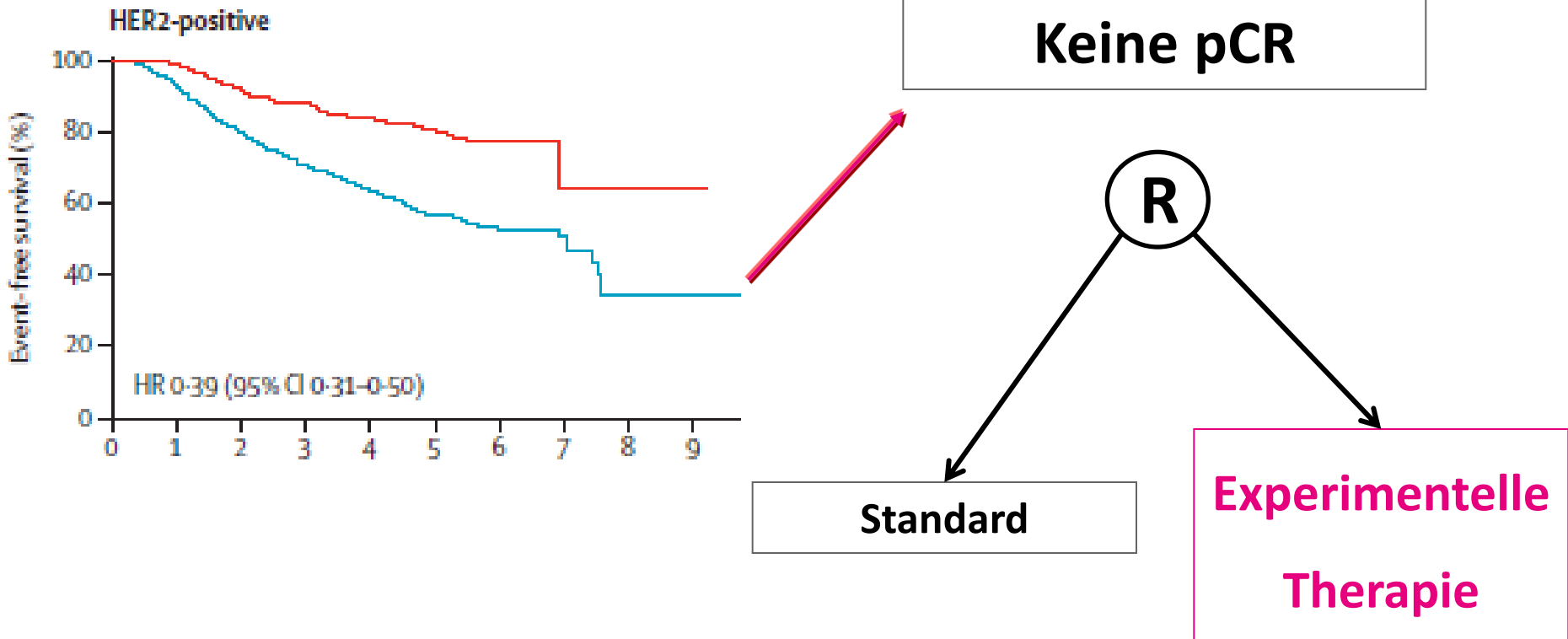


— pCR
— No pCR





Prinzip der post-neoadjuvanten Studien



SURGERY

cT1-4, cN0-3,
M0 HER2+
Preoperative
therapy:
**Anti-HER2/
Taxane ±
Anthracycline**

**Residual
invasive
tumor**

14 x Trastuzumab 6mg/kg i.v. q3w

14 x T-DM1 3,6mg/kg i.v. q3w

Radiation per standard guidance;
hormone therapy if ER or PgR pos

Primary Efficacy Objective: Invasive disease-free survival (IDFS);

3y-IDFS 70%→76,5% (HR 0,75)

Secondary Efficacy Objectives: IDFS, including second non-breast cancers;
DFS; OS; distant recurrence-free interval (DRFI)



Main Inclusion Criteria

- **cT1-4, cN0-3, M0 HER2 positive**, centrally confirmed invasive breast cancer (IHC 3+ or ISH + on pre-chemotherapy biopsy material; if not available, on surgical specimen)
- At least **6 cycles and 16 weeks** of preoperative therapy with at least **9 weeks each of HER2-directed therapy and taxane-based** chemotherapy (may overlap)
- **Pathologic evidence of residual invasive carcinoma in the breast or axillary lymph nodes** following completion of preoperative therapy



Main Exclusion Criteria

- **Metastatic disease or progressive disease** during preoperative therapy
- **Grade ≥ 2 peripheral neuropathy**
- **History of a decrease in LVEF to $<40\%$ with prior trastuzumab**
- **Current known active liver disease**, e.g. due to HBV, HCV, autoimmune hepatic disorders or sclerosing cholangitis



Country	Screened	Screen Failures	Randomized
GERMANY	355	63	292
UNITED STATES	252	75	274
FRANCE	167	28	139
ITALY	140	30	110
SPAIN	113	11	92



PI	Site	Randomized
Prof. Schneeweiss	Heidelberg	19
Fischer	Gelsenkirchen	16
Prof. Jackisch	Offenbach	15
PD Dr. Schrauder	Erlangen	14
Dr. Gerteis	Stuttgart	12
Prof. Salat	München	11
Prof. Untch	Berlin	10
Dr. Kuemmel	Essen	10
Dr. Wuelfing	Hamburg	10



- **FPI March 2013**
- **LPI December 2015**
- **N=1487, 328 sites (in Germany 47 sites)**
- **First interim analysis after 257 events (ca. 2017)**
- **Final analysis after 384 events**



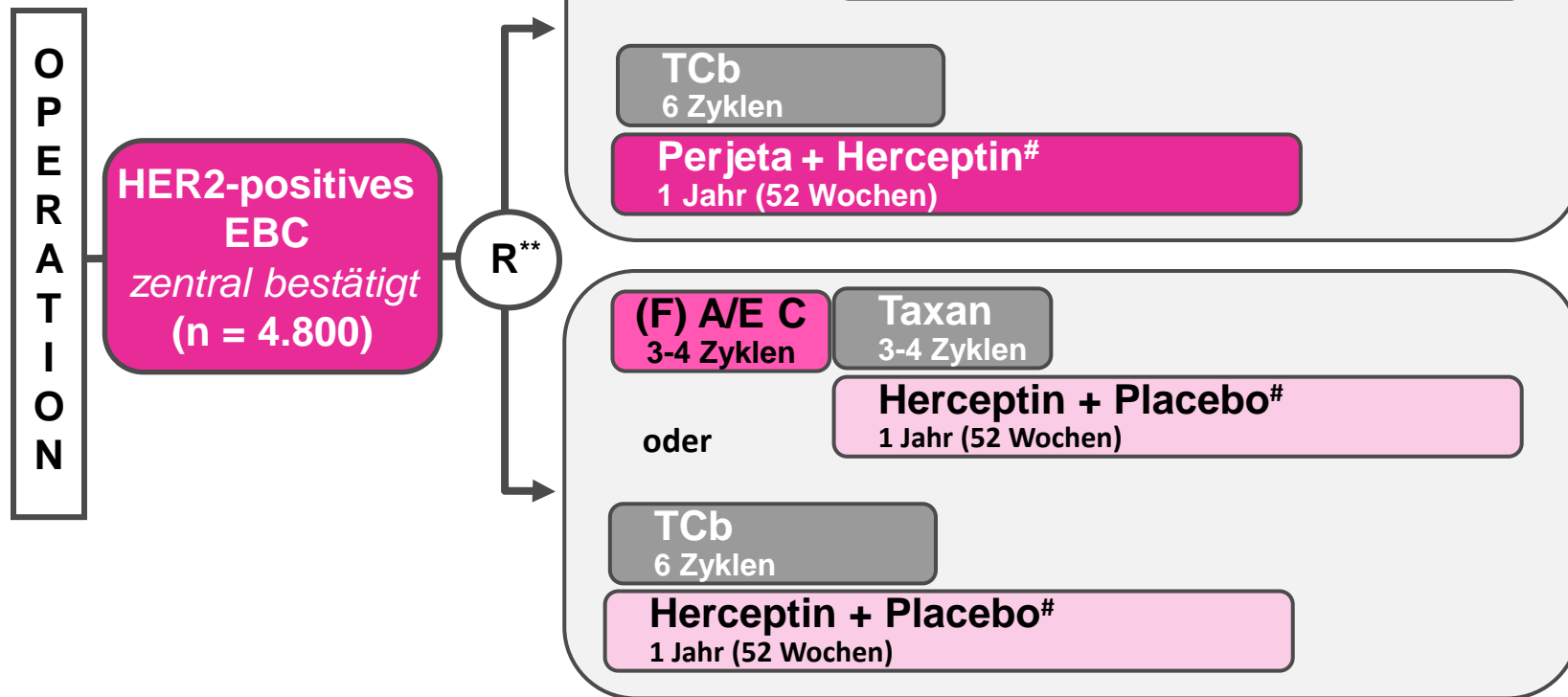
A randomized multicenter, double-blind, placebo-controlled comparison of chemotherapy plus trastuzumab plus placebo versus chemotherapy plus trastuzumab plus pertuzumab as adjuvant therapy in patients with operable HER2-positive primary breast cancer.

BIG 4-11 / BO25126/ TOC4939G / GBG 67



APHINITY (BO25126) Studiendesign

Doppelblinde*, randomisierte, zweiarmige Phase-III-Studie



➤ **Beginn einer Radiotherapie und/oder endokrinen Therapie nach Abschluss der adjuvanten Chemotherapie**

* Personal im Studienzentrum, Patienten, Study Management Teams und Sponsor sind bezüglich der Therapiezuordnung verblindet.

** Randomisierung innerhalb von 8 Wochen nach OP; Therapiebeginn innerhalb von 1 Woche nach Randomisierung.

Anti-HER2-Therapiezyklus alle 3 Wochen: Herceptin Dosierung 6 mg/kg i.v.; Perjeta Dosierung 420 mg i.v.; die Initialdosis von Perjeta in Zyklus 1 beträgt 840 mg; die Initialdosis von Herceptin in Zyklus 1 beträgt 8 mg/kg.

A = Doxorubicin; C = Cyclophosphamid; Cb = Carboplatin; E = Epirubicin; F = 5-Fluorouracil; T = Docetaxel o. Paclitaxel, q3w, alle 3 Wo. q2w alle 2 Wo.

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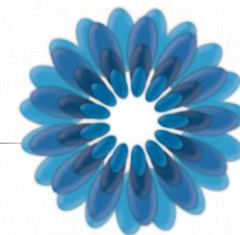
Wesentliche Einschlusskriterien

- ✓ ≥ 18 Jahre
- ✓ ECOG ≤ 1
- ✓ Operables, invasives Mammakarzinom mit adäquater Exzision und entweder
 - nodalpositiv: jedes pT zulässig außer T0
 - nodalnegativ: > 1 cm oder $> 0,5 - 1$ cm bei Risikofaktoren (G3 *oder* ER- und ER- und PgR-negativ *oder* Alter < 35 Jahre)
Protokollamendment: seit Jan. 2013 kein weiterer Einschluss nodalnegativer nodalnegativer Patienten
- ✓ Hormonrezeptorstatus bekannt
- ✓ HER2-Überexpression IHC3+ und/oder -Amplifikation
- ✓ ISH+ (zentraler Test)
- ✓ LVEF ≥ 55 %
- ✓ Intervall Operation - Therapiebeginn: max. 8 Wochen
- ✓ Behandlungsbeginn innerhalb 1 Woche nach Randomisierung



APHINITY (BO25126)

Endpunkte



Primärer Endpunkt	Sekundäre Endpunkte
<ul style="list-style-type: none"> Invasives krankheitsfreies Überleben (iDFS) 	<ul style="list-style-type: none"> Invasives krankheitsfreies Überleben einschließlich sekundärer maligner außerhalb der Brust Krankheitsfreies Überleben (DFS) Gesamtüberleben (OS) Rezidiv-freies Intervall (RFI) Kardiale Sicherheit Sicherheit und Gesundheits-assoziierte Lebensqualität (HRQL: EORTC QLQ-EORTC QLQ-BR23, EQ-5D)



APHINITY (BO25126)

Statistische Annahmen Primäranalyse

- Primäranalyse (ITT) wenn 379 iDFS-Ereignisse aufgetreten sind, jedoch mindestens 30 Monate nach Einschluss des letzten Patienten*.
- Annahmen basieren auf Ergebnissen der Studie BCIRG 006 und einer Nodal-negativ/Nodal-positiv-Verteilung von 35%/65%.

	3-year iDFS Rate Kontrollarm vs. PERJETA-Arm
HR = 0.75	89.2% vs. 91.8% ($\Delta = 2.6\%$)
Kleinster nachweisbarer Unterschied HR = 0.818	89.2% vs. 91.1%) ($\Delta=1.9\%$)

*Es konnten weibliche und männliche Patienten eingeschlossen werden.



Roche - Phase III APHINITY study shows Roche's Perjeta® regimen helped people with an aggressiv - Internet Explorer

http://www.roche.com/media/store/releases/med-... x

Roche - Phase III APHINITY ... x

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Media Release

Basel, 02 March 2017

Phase III APHINITY study shows Roche's Perjeta® regimen helped people with an aggressive type of early breast cancer live longer without their disease returning compared to Herceptin® and chemotherapy

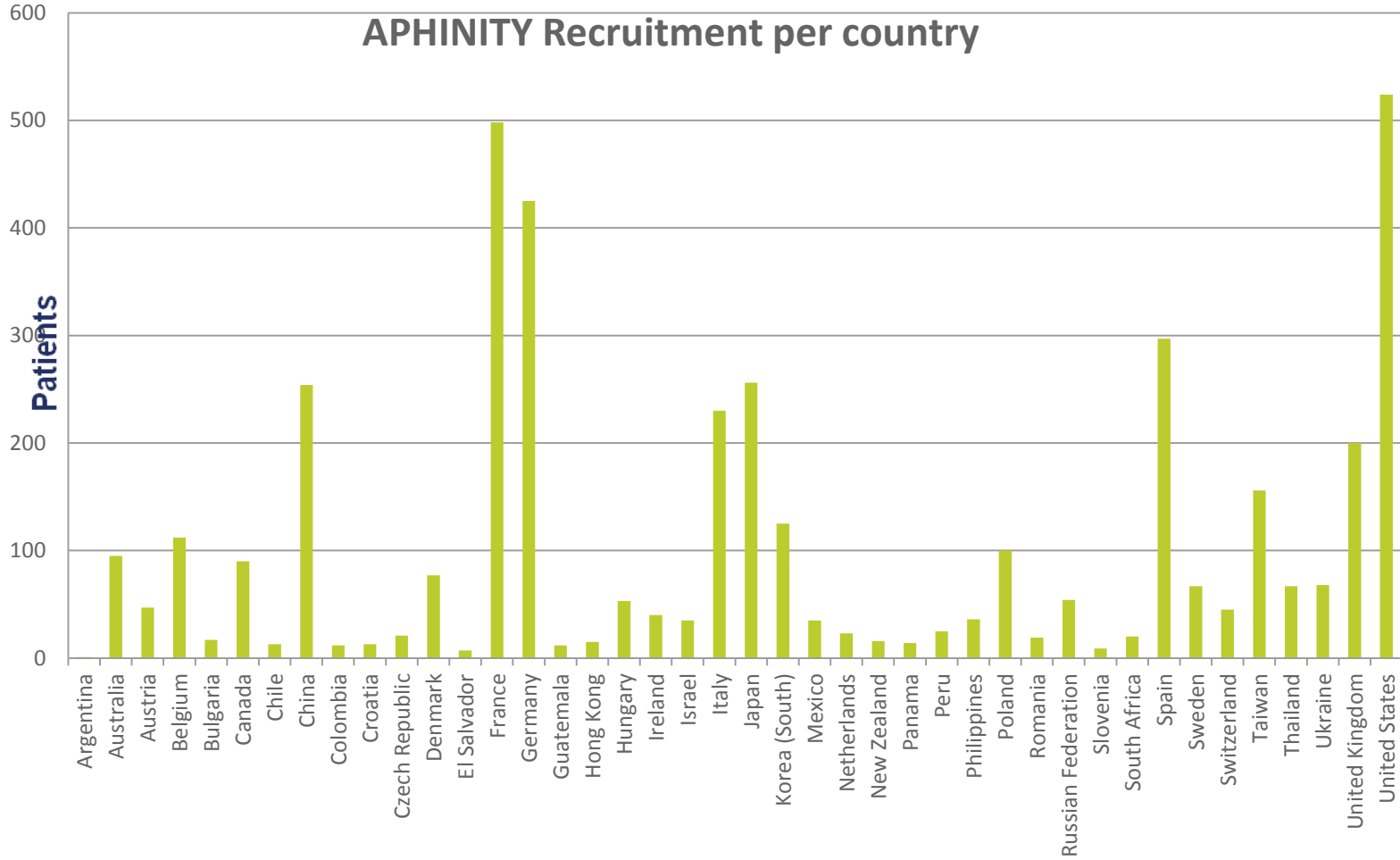
- ◆ **Perjeta plus Herceptin and chemotherapy showed a statistically significant improvement in invasive disease-free survival (iDFS) for people with HER2-positive early breast cancer (eBC) compared to Herceptin and chemotherapy alone**
- ◆ **Data will be discussed with health authorities, including the US Food and Drug Administration (FDA) and European Medicines Agency (EMA)**

Roche (SIX: RO, ROG; OTCQX: RHHBY), the Breast International Group (BIG), Breast European Adjuvant Study Team (BrEAST) and Frontier Science Foundation (FS) today announced positive results from the phase III APHINITY study. The study met its primary endpoint and showed that adjuvant (after surgery) treatment with the combination of Perjeta® (pertuzumab), Herceptin® (trastuzumab) and chemotherapy (the Perjeta-based regimen) achieved a statistically significant reduction in the risk of recurrence of invasive disease or death (invasive disease-free survival; iDFS) in people with HER2-positive early breast cancer (eBC) compared to Herceptin and chemotherapy alone. The safety profile of the Perjeta-based regimen was consistent with that seen in previous studies¹, and no new safety signals were identified. Full results from the APHINITY trial will be presented at an upcoming medical meeting in 2017.

"These results from the positive APHINITY study represent an important addition to the body of data for Perjeta in the treatment of people with HER2-positive early breast cancer," said

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Rekrutierung deutsche Studiengruppen

NETWORK	Screening_Group.GROUP	TOTAL_PTS_SCREENED	TOTAL_PTS_RANDOMISED
BIG	ABCSG	65	47
BIG	AGO-B	106	86
BIG	ANZ BCTG	142	111
BIG	BOOG	24	23
BIG	CEEEOG	26	18
BIG	DBCAG	99	77
BIG	EORTC BCG	77	68
BIG	GAICO	2	1
BIG	GBG	307	225
BIG	GECO PERU	19	15
BIG	GEICAM	306	209
BIG	GOCCHI	15	13
BIG	GOIRC	59	48
BIG	IBCSG	300	249
BIG	ICORG	44	40
BIG	NCIC-CTG	129	90
BIG	ICR-CTSUNCRI-BCSG partnership	265	200
BIG	SOLTI	118	88
BIG	SUCCESS	96	66
BIG	SweBCG	52	43
BIG	TCOG	189	140
BIG	UCBG	578	470
BIG	WSG	62	48
Independent site		2752	1848



APHINITY Study Timelines



IDMC Kick-Off

Jan 2012

**Last patient
completed treatment**

Q4 2015

**Last patient
completed
follow-up**

Q1 2024

2011

2012

2013

2014

2015

2016

2024

FPI

Oct 2011

Last patient in

Aug 2013

Main efficacy analysis

Q1 2017

**1st site
activation &
patient screened**

Sep 2011

**Datenbank geschlossen für Primäranalyse
20.Feb2017 – Follow up Daten können wieder in
BREAST eingetragen werden**

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AGO-B
BREAST STUDY GROUP

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NOUGO

SUCCESS

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HERZLICHEN
DANK!