

Transform the journey for your HER2+ Breast Cancer patients

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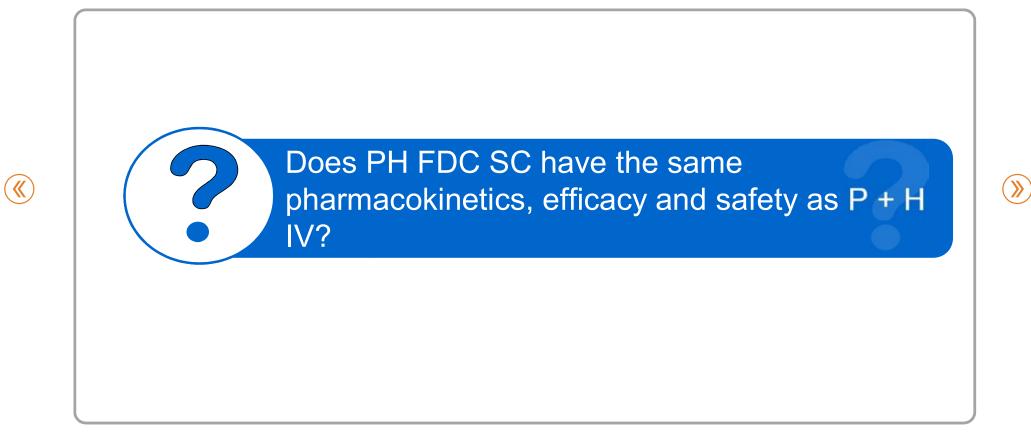


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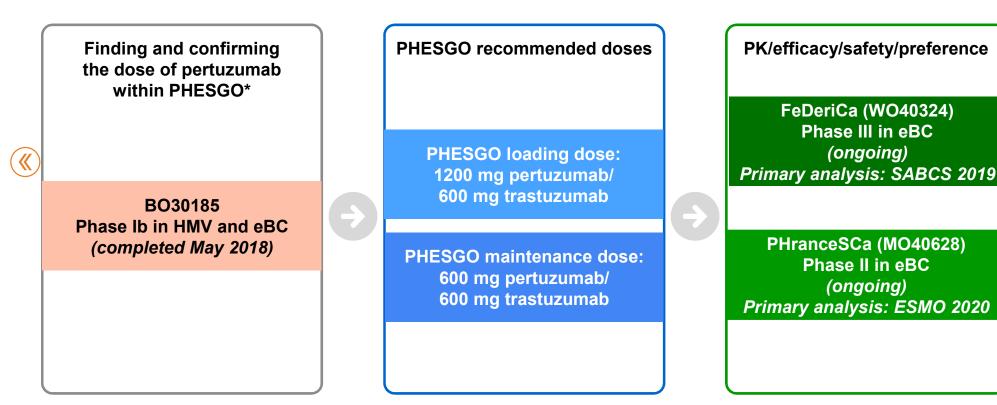
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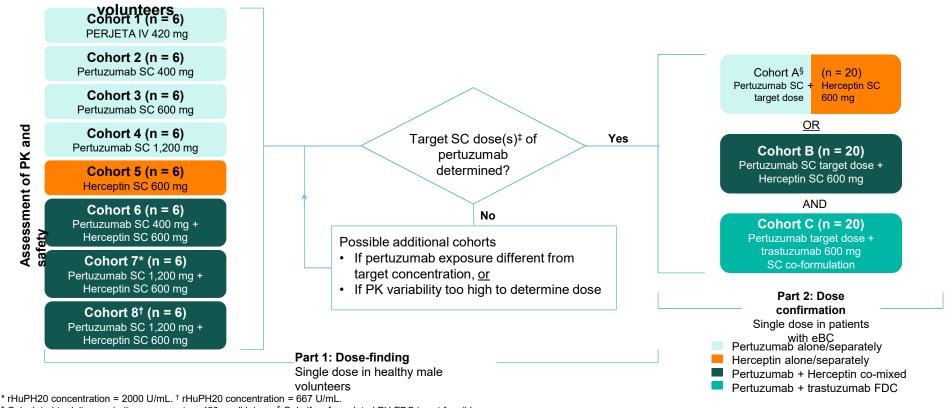
PHESGO clinical development programme





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BO30185: Phase Ib dose-finding study was used to select the dose of pertuzumab for PHESGO



Koch

PHESG

PERTUZUMAB-TRASTUZUMAB

Part II: patients with eBC

[‡] Calculated to deliver a similar exposure to a 420 mg IV dose. [§] Only if co-formulated PH FDC is not feasible.

eBC, early breast cancer; FDC, fixed-dose combination; IV, intravenous;

Part I: Healthy male

PK, pharmacokinetic; SC, subcutaneous.

Assessment of PK and

safety

Kirschbrown WP, et al. J Clin Pharmacol 2019; 59:702-716.

BO30185: Summary

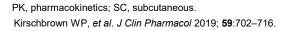


PK & dose finding

- BO30185 selected a loading dose of 1200 mg pertuzumab SC and a maintenance dose of 600 mg pertuzumab SC to be used in PHESGO
- PK data in healthy male volunteers and patients with early breast cancer predicted these doses will
 result in an equivalent pertuzumab serum exposure to that of PERJETA IV 840 mg and 420 mg,
 respectively
- The dose-finding processes used to find the subcutaneous dose of pertuzumab were similar to those used successfully in the development of both Herceptin SC and MabThera SC

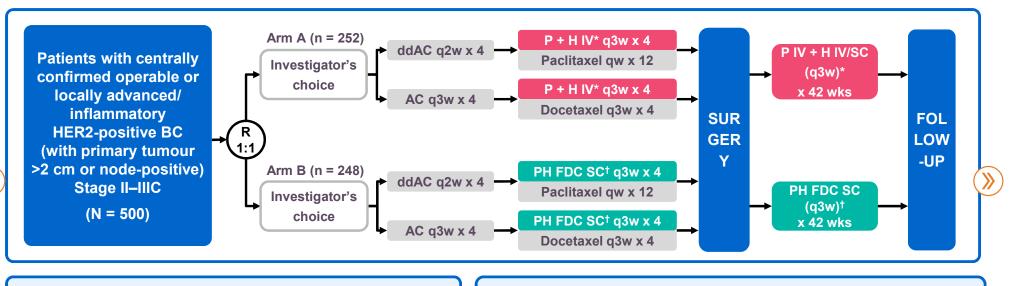
Safety

- There were **no new safety signals observed for pertuzumab SC** alone, or when co-mixed or co-formulated with Herceptin SC
- The PK and safety results of BO30185 supported further development of PHESGO





FeDeriCa: Phase III non-inferiority study assessing the PK, efficacy and safety of PH FDC SC vs. P + H IV



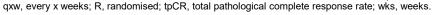
Stratification factors: Hormone receptor status; clinical stage at presentation (Stage II–IIIA or IIIB–IIIC); type of chemotherapy

Primary endpoint: Non-inferiority of Cycle 7 (pre-dose Cycle 8) P serum C_{trough}

Key secondary endpoints: Non-inferiority of the Cycle 7 (predose Cycle 8) H serum C_{trough}, tpCR, safety, IDFS, EFS, DRFI, OS

* P IV (fixed dose) loading dose: 840 mg; maintenance: 420 mg. H IV (fixed dose) loading dose: 8 mg/kg; maintenance: 6 mg/kg IV. H SC is given as a fixed dose of 600 mg.

- ⁺ PH FDC SC (fixed dose): P 1200 mg/H 600 mg in 15 mL; maintenance: P 600 mg/H 600 mg in 10 mL.
- C_{trough}, serum trough concentration; ddAC, dose-dense doxorubicin + cyclophosphamide; DRFI, disease recurrence-free interval;
- EFS, event-free survival; IDFS, invasive disease-free survival; OS, overall survival; PK, pharmacokinetics; qw, every week;





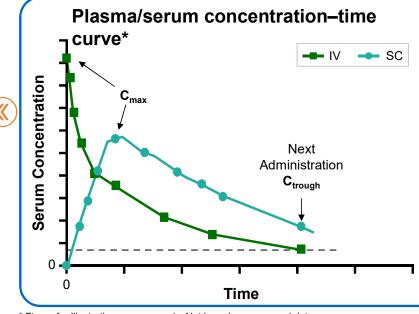
KOCD

1. Tan AR, et al. Lancet Oncology 2021; 22:P85–97.

Pharmacokinetic (PK) parameters are important for understanding bioequivalence between IV and SC formulations



PK endpoints are a key focus of the PH FDC SC clinical development programme and are used to assess bioequivalence



C_{trough} = Trough plasma/serum drug concentration; the concentration measured at the end of a dosing interval

- Related to mode of action
- Associated with clinical outcomes^{1–6}
- **AUC** = Area under the plasma/serum concentration-time curve;
 - Provides exposure information over the course of the treatment cycle (how much of a drug stays in the body and for how long)
 - May correlate with C_{trough}
- **C**_{max} = Maximum (peak) plasma/serum drug concentration
 - C_{max} after IV is not subject to distribution and elimination effects, compared with C_{max} after SC which requires time for absorption and is subject to elimination effects before reaching the bloodstream
 - Not clearly correlated with clinical outcomes^{1,3}

* Figure for Illustration purposes only. Not based on measured data.
 AUC, area under the plasma/serum concentration-time curve;

C_{max}, maximum serum concentration; C_{trough}, serum trough concentration; IV, intravenous; SC, subcutaneous

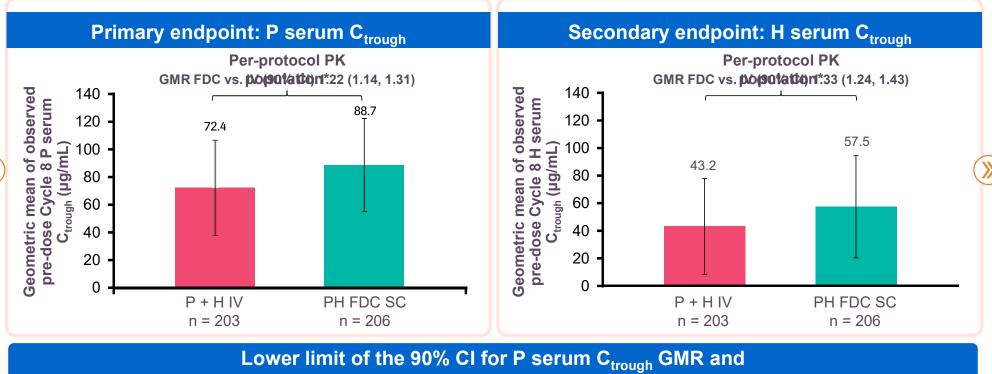
1. Berinstein NL, et al. Ann Oncol 1998; 9:995–1001; 2. Yin A, et al. J Clin Oncol 2010 28:e13108;

3. Tobinai K, et al. Ann Oncol 2004;15:821–830; 4. Jäger U, et al. Haematologica 2012; 97:1431–1438; 5. Maloney DG, et al. Blood 1997; 90:2188–2195; 6. Igarashi T, et al. Ann Oncol 2002; 13:928–943.





FeDeriCa: PH FDC SC was non-inferior to P + H IV, based on Cycle 7 (pre-dose Cycle 8) P and H serum C_{trough} concentrations



H serum C_{trough} GMR exceeded the non-inferiority margin of 0.8

* This population includes only patients who adhered to the pre-specified criteria for the schedule of PK assessments

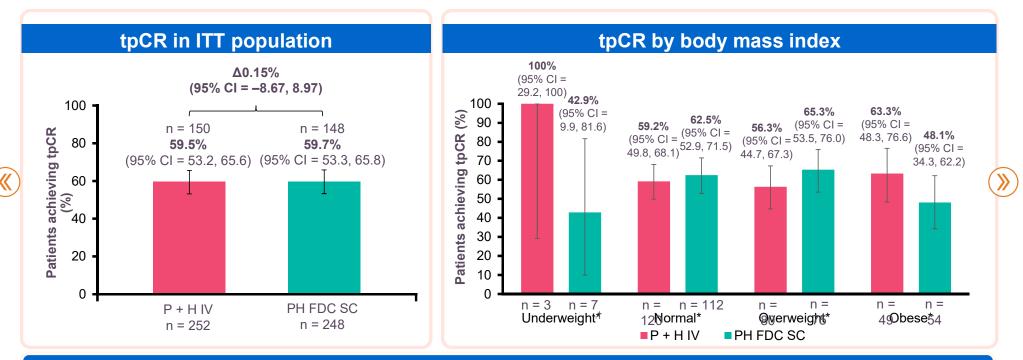
Ctrough, serum trough concentration; CI, confidence interval; GMR; geometric mean ratio; H, trastuzumab; P, pertuzumab; PH FDC SC, fixed-dose combination of pertuzumab and trastuzumab for subcutaneous injection; PK, pharmacokinetics.



Tan AR, et al. Lancet Oncol 2021.

FeDeriCa: PH FDC SC had almost identical tpCR rates to P + H IV¹





tpCR rates in the ITT population are in keeping with data from previous studies of P–H IV + chemotherapy in the neoadjuvant setting^{2–5}

IV, intravenous; ITT, intention-to-treat; H, trastuzumab; P, pertuzumab; PH FDC SC, fixed-dose combination of pertuzumab and trastuzumab for subcutaneous injection; tpCR, total pathological complete response rate * Underweight <18.5 kg/m²; Normal 18.5–<25.0 kg/m²; Overweight 25.0–<30.0 kg/m²; Obese ≥30 kg/m². [↑] Patient numbers in the underweight subgroup were low.

1 . Tan AR, et al. Lancet Oncol 2021; 2. Schneeweiss A, et al. Ann Oncol 2013; 3. Loibl S, et al. Ann Oncol 2017; 4. Hurvitz SA, et al. Lancet Oncol 2018; 5. Swain SM, et al. Ann Oncol 2018.



Safety profile of PH FDC SC was comparable to P + H IV formulations



No. of patients, n (%)	P + H IV n = 252	PH FDC SC n = 248
Any AE ¹	251 (99.6)	248 (100)
Grade ≥3 AEs¹	133 (52.8)	121 (48.8)
Serious AE ¹	45 (17.9)	40 (16.1)
Death ¹	1 (0.4)*	1 (0.4)†
Discontinued randomised treatment due to AE ²	26 (10.3)	17 (6.9)

The rates of treatment discontinuations due to AEs were similar between arms²

1. Tan AR, et al. SABCS 2019 (Abstract PD4-07);

2. Roche, Data on file (CSR 11/09/2019). * Death was unrelated to HER2 treatment. The cause of death was reported as urosepsis. ⁺ The cause of death was reported as acute myocardial infarction and occurred after cycle 2;

hence, it occurred prior to the start of anti-HER2 treatment with PH FDC SC.

AE, adverse event; H, trastuzumab; IV, intravenous; P, pertuzumab; PH FDC SC, fixed-dose combination

of pertuzumab and trastuzumab for subcutaneous injection



Most common AEs were balanced between treatment arms¹



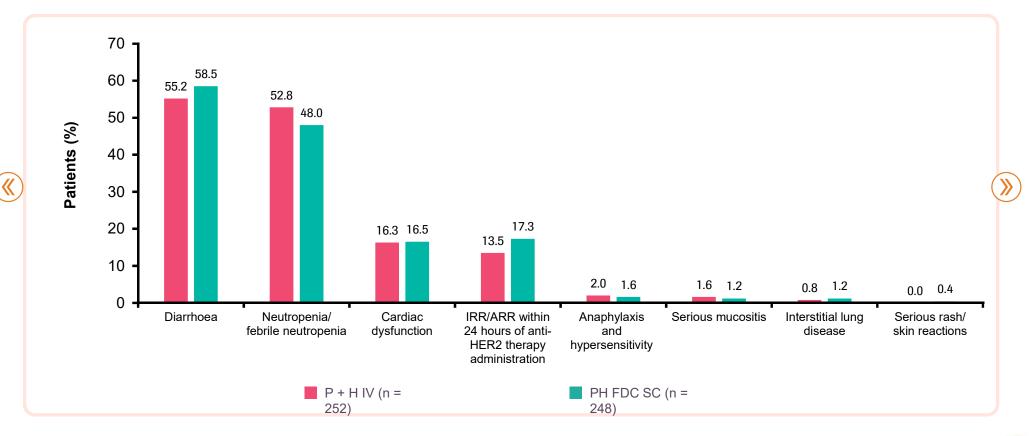
AEs (occurring in ≥30% of patients) No. of patients, n (%)*	P + H IV n = 252	PH FDC SC n = 248
Alopecia	177 (70.2)	191 (77.0)
Nausea	152 (60.3)	146 (58.9)
Diarrhoea	139 (55.2)	145 (58.5)
Anaemia	103 (40.9)	84 (33.9)
Asthenia	76 (30.2)	70 (28.2)

Incidences of AEs were consistent with other studies that included P-H IV + chemotherapy²⁻⁴

1. Tan AR, et al. SABCS 2019 (Abstract PD4-07); 2. Gianni L, et al. Lancet Oncol 2012;

3. Schneeweiss A, et al. Ann Oncol 2013; 4. Swain SM, et al. Ann Oncol 2018..

* Multiple occurrences of the same AE in an individual are counted only once. AE, adverse event; H, trastuzumab; IV, intravenous; P, pertuzumab; PH FDC SC, fixed-dose combination of pertuzumab and trastuzumab for subcutaneous injection. FeDeriCa: Incidence of AEs of interest, including cardiac dysfunction, (Roche IRR/ARRs and hypersensitivity, was comparable between treatment arms*



Tan AR, et al. SABCS 2019 (Abstract PD4-07).

* One pregnancy-/neonatal-related AE of epidermolysis under standardised MedDRA queries "Pregnancy and neonatal topics (wide)" occurred in each treatment arm (0.4% incidence). AE, adverse event; ARR, administration-related reaction; IRR, infusion-related reaction; PH FDC SC, fixed-dose combination of pertuzumab and trastuzumab for subcutaneous injection



There was no meaningful difference in cardiac safety between treatment arms



No. patients, n (%)	P + H IV n = 252	PH FDC SC n = 248	
Primary cardiac event ¹	0	2 (0.8)	
Heart failure (NYHA III/IV) and significant LVEF decline*	0	1 (0.4)	
Cardiac death (definite or probable)	0	1 (0.4)§	
Secondary cardiac event ^{†,1}	9 (3.6)	4 (1.6)	
Identified by initial LVEF assessments	9 (3.6)	4 (1.6)	
Confirmed by second LVEF assessment	2 (0.8)	1 (0.4)	
LVEF declines ² ≥1 LVEF significant LVEF drop [‡] Asymptomatic LVEF decline requiring treatment or leading to discontinuation of anti-HER2 treatment	7 (2.8) 10 (4.0)	5 (2.0) 5 (2.0)	

1. Tan AR, *et al.* SABCS 2019 (Abstract PD4-07);

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2. Roche, Data on file (FeDeriCa Primary CSR).

* Significant LVEF decline defined as a drop in LVEF of ≥10 percentage points from baseline and to <50%. † Secondary cardiac events defined as asymptomatic or mildly symptomatic significant LVEF

declines by initial assessment or confirmed by second assessment.

[‡] Defined by a drop in LVEF of ≥10 percentage points from baseline and to <50%.

§ One cardiac death occurred after Cycle 2 (prior to start of anti-HER2 treatment) in an 81-year-old patient.

H, Herceptin; IV, intravenous; LVEF, left ventricular ejection fraction; NYHA, New York Heart Association; P, pertuzumab.



PH FDC SC showed non-inferior PK vs. pertuzumab + trastuzumab IV, with comparable efficacy and safety



PH FDC SC was non-inferior to pertuzumab + trastuzumab IV, based on Cycle 7 (pre-dose Cycle 8) pertuzumab and trastuzumab serum C_{trough} concentrations¹

The tpCR rate of PH FDC SC (59.7%) was nearly identical to that of pertuzumab + trastuzumab IV (59.5%)¹ and consistent with previous data from trials with pertuzumab + trastuzumab IV + chemotherapy^{2–5}

The safety profile of PH FDC SC was comparable to that of pertuzumab + trastuzumab IV¹ and was consistent with previous pertuzumab + trastuzumab IV + chemotherapy trials; no new safety signals identified, including when switching formulations^{2,3,6,7}

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7. O'Shaughnessy J, et al. ESMO 2020 (Abstract 165MO)







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