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Phase 3 Study of Tucatinib or Placebo in Combination With Trastuzumab and Pertuzumab as Maintenance Therapy for HER2+ Metastatic Breast Cancer (HER2CLIMB-05, Trial in Progress)

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Summary

HER2CLIMB-05 will evaluate whether adding tucatinib to 1L SOC maintenance therapy with trastuzumab and pertuzumab will extend PFS while maintaining HR-QOL in patients with HER2+ MBC

In addition, the effect of adding tucatinib to 1L SOC for treatment and potential prevention of BMs is of great interest

Enrollment is ongoing in the US, Canada, LATAM, APAC, and European countries with additional sites planned

Abbreviations

1L, first-line; AE, adverse event; APAC, Asia-Pacific; ASCO CAP, American Society of Clinical Oncology College of American Pathologists; BICR, blinded independent central review; BID, twice a day; BM, brain metastases; CNS, central nervous system; CNS-PFS, time from randomization to investigator-assessed disease progression in brain; D, day; ECOG, Eastern Cooperative Oncology Group; EGFR, epidermal growth factor receptor; EORTC QLQ-C30, European Organization for the Research and Treatment of Cancer Core Quality of Life Questionnaire; EOT, end of treatment; EQ-5D-5L, 5-level European Quality of Life 5-Dimensional; HER2, human epidermal growth factor receptor 2; HER2+, HER2-positive; HR+, hormone receptor positive; HR-, hormone receptor negative; HR-QOL, health-related quality of life; IV, intravenous; LA, locally advanced; LATAM, Latin American; LMD, leptomeningeal disease; MBC, metastatic breast cancer; MRI, magnetic resonance imaging; OS, overall survival; PFS, progression-free survival; PK, pharmacokinetics; PO, by mouth; QOL, quality of life; R, randomization; RECIST v1.1, Response Evaluation Criteria in Solid Tumors, version 1.1; SC, subcutaneous; SOC, standard of care; TKI, tyrosine kinase inhibitor; US, United States

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Disclosures

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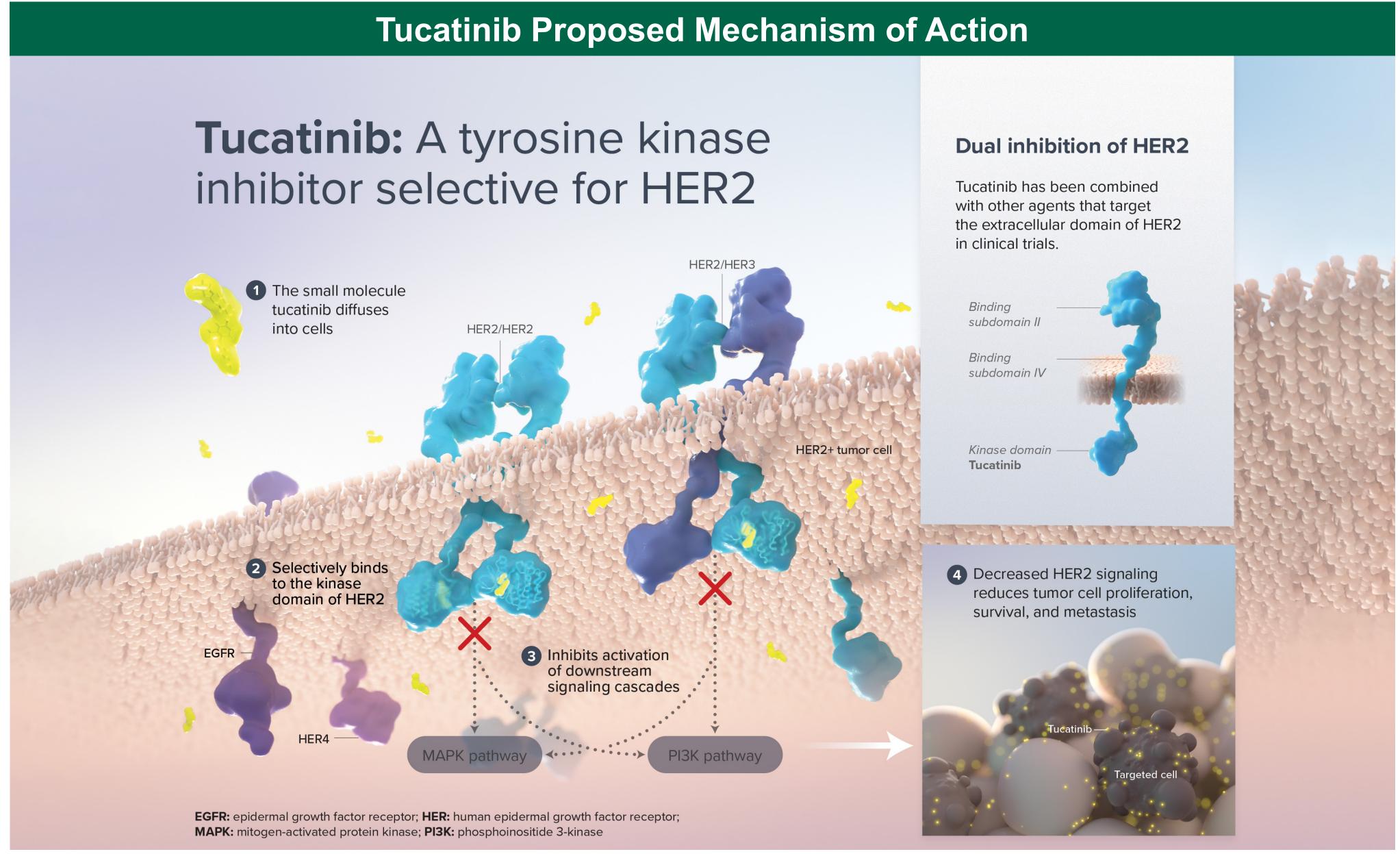
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Background

- The current 1L SOC for HER2+ MBC is trastuzumab plus pertuzumab and a taxane. 1,2
- This regimen improved overall survival outcomes by 16 months compared with the prior SOC, trastuzumab and a taxane.³
- Despite advances in 1L SOC therapy, most patients progress on maintenance therapy with trastuzumab and pertuzumab.¹
- Tucatinib is an oral TKI approved in multiple countries in combination with trastuzumab and capecitabine for adult patients with HER2+ MBC with or without BMs.4-7
- Tucatinib in combination with trastuzumab and capecitabine has demonstrated a statistically significant and clinically meaningful improvement in PFS and OS with a tolerable safety profile in patients with HER2+ MBC.4,7,8
- As up to 50% of patients with HER2+ MBC will develop BMs, prevention and treatment of BMs is an urgent unmet clinical need.9
- Adding tucatinib to trastuzumab plus capecitabine also reduced the risk of disease progression or death in patients with active or stable BMs.^{4,7,8} • The addition of tucatinib to 1L SOC maintenance therapy with trastuzumab and pertuzumab may extend PFS while maintaining QOL. 10
- In patients with BMs, tucatinib has demonstrated the ability to improve PFS and OS and/or delay the emergence of BMs; therefore, it is thought that patients in the 1L setting may also benefit from receiving tucatinib.8



Tucatinib is an investigational agent, and its safety and efficacy have not been established. There is no guarantee that tucatinib will receive regulatory approval and become commercially available for uses being investigated. © 2023 Seagen Inc. Bothell WA 98021. All rights reserved. USM/TUC/2019/0018

Eligibility

Key Inclusion Criteria

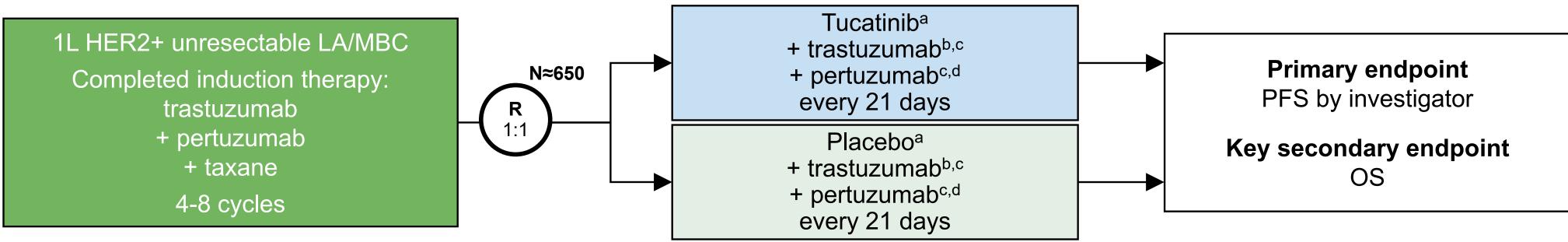
- Centrally confirmed HER2+ breast carcinoma per 2018 ASCO CAP guidelines.
- Unresectable locally advanced or metastatic disease
- If recurrent (after [neo]adjuvant therapy), there must be a ≥6-month treatment-free interval from any trastuzumab and pertuzumab received in the early breast cancer setting to the diagnosis of advanced HER2+ disease
- Received 4-8 cycles of previous treatment with trastuzumab, pertuzumab, and taxane as 1L therapy for advanced HER2+ breast cancer with no evidence of disease progression (per investigator judgement).
- Known hormone receptor status (per local guidelines; may be HR+ or HR-).
- ECOG performance status score of 0 or 1.
- CNS inclusion criteria: Based on screening contrast-enhanced brain MRI at baseline or at screening, patients may have any of the following:
- No evidence of BMs
- Untreated BMs that are asymptomatic not needing immediate local treatment and if identified on prior brain imaging,
- without evidence of progression since starting 1L induction therapy with trastuzumab, pertuzumab, and taxane Previously treated BMs that are asymptomatic or must not have progressed since treatment

Key Exclusion Criteria

- Prior treatment with any TKI targeting HER2 and/or EGFR including pyrotinib, lapatinib, tucatinib, neratinib, and afatinib (except neratinib if given in the extended adjuvant setting and ≥12 months have elapsed since the last neratinib dose prior to the start of study drug).
- Unable to undergo contrast-enhanced MRI of the brain.
- CNS exclusion criteria: Based on screening brain MRI and clinical assessment, patients must not have any of the following:
- Symptomatic BM after CNS-directed local therapy
- Progression of BMs since starting 1L trastuzumab, pertuzumab, and taxane
- Ongoing use of systemic corticosteroids at a total daily dose of >2 mg of dexamethasone (or equivalent)
- Any untreated brain lesion in an anatomic site that may pose a risk to patient Known or suspected LMD
- Poorly controlled (>1/week) seizures or other persistent neurologic symptoms

Study Schema

• HER2CLIMB-05 (NCT05132582) is a phase 3, randomized, double-blind study evaluating tucatinib or placebo in combination with trastuzumab plus pertuzumab as maintenance therapy in the 1L setting for patients with unresectable LA or metastatic HER2+ breast cancer following SOC induction therapy.



Randomization will be stratified by diagnosis (de novo vs recurrent MBC), hormone receptor status (positive vs negative), and presence or history of BMs (yes vs no).

Patients are permitted to receive up to 2 cycles of carboplatin during the start of induction therapy in combination with trastuzumab, pertuzumab, and taxane. ^aTucatinib/placebo 300 mg will be administered PO from Cycle 1 Day 1 onward, BID on each day of study treatment. bIV trastuzumab will be given at a dose of

6 mg/kg once every 21 days. Alternatively, trastuzumab may be administered as an SC dose, at a fixed dose of 600 mg once every 21 days. SC trastuzumab does not require a loading dose. cA fixed dose of trastuzumab + pertuzumab (600 mg pertuzumab, 600 mg trastuzumab, and 20,000 units hyaluronidase) can be administered every 21 days by SC administration, in lieu of trastuzumab and pertuzumab administered IV individually. dPertuzumab 420 mg will be administered every 21 days intravenously over 30-60 minutes.

Study Treatment

- Patients will receive tucatinib 300 mg or placebo PO BID, trastuzumab 6 mg/kg IV or 600 mg SC once every 21 days, and pertuzumab 420 mg IV once every 21 days.
- In some countries, patients will receive pertuzumab 600 mg, trastuzumab 600 mg, and 20,000 units hyaluronidase SC every 21-day cycle in place of trastuzumab and pertuzumab individually.
- Patients with HR+ tumors may receive endocrine therapy per institutional SOC.

	Cycle 1	D.O.	D45	Cycle 2	Doo
	D1	D8	D15	D22	D29
Tucatinib 300 mg/placebo PO BID		·	·		
Trastuzumab + pertuzumab					

Study treatment will continue until unacceptable toxicity, disease progression, withdrawal of consent, or study closure. If a patient is found to have radiographic progressive disease per RECIST v1.1 criteria based on isolated CNS progression without progression of extracranial disease, the patient may be eligible to continue study treatment after completion of local treatment of BMs.

	Objectives		
Primary Objective	Endpoints		
Evaluate antitumor activity of tucatinib in combination with trastuzumab and pertuzumab	Primary endpoint: PFS by investigator per RECIST v1.1 Key secondary endpoint: OS		
Other Secondary Objectives	Endpoints		
Evaluate overall PFS and PFS in the brain	PFS by BICR per RECIST v1.1, and CNS-PFS by investigator per RECIST v1.1		
Assess the change in HR-QOL	Time to deterioration of HR-QOL, defined as time to 10-point decrease in the global health status/QOL scale of the EORTC QLQ-C30		
Evaluate the safety and tolerability of tucatinib in combination with trastuzumab and pertuzumab	 AEs Clinical laboratory assessments Incidence of dose holding, dose reductions, and discontinuations of tucatinib Incidence of dose holding and discontinuations of trastuzumab and pertuzumab 		
Evaluate the PK of tucatinib	Plasma concentrations of tucatinib		
Exploratory Objectives	Endpoints		
Identify somatic alterations potentially associated with resistance to study treatment	Somatic alterations associated with resistance to tucatinib		
Evaluate health utilities	HR-QOL utilities as assessed with the EQ-5D-5L instrument		
Evaluate HR-QOL	Change from baseline in global health status/QOL, and physical and role functional scales of the EORTC QLQ-C30		

Assessments

- Disease assessments: PFS per RECIST v1.1 will be assessed by investigator and BICR; treatment decisions will be made based upon local radiologic assessment
- Brain MRI: required for all patients at screening and at EOT, and is to be repeated for patients with a baseline or history of BM every
- 9 weeks. For patients without baseline BMs or history of BMs, MRI is to be repeated every 27 weeks Survival and other follow-up assessments: until study closure or withdrawal of consent
- PK assessments: blood samples of trough tucatinib drug levels will be collected in all patients on Day 1 of Cycles 2 to 6, prior to administration of tucatinib. On Day 1 of Cycle 3, blood samples will also be collected postdose for PK assessments of peak levels of tucatinib 1 to 4 hours after administration of tucatinib.
- Safety assessments: summaries of AEs and changes in laboratory test results, vital signs, and physical examination findings.
- HR-QOL assessments: at protocol-specified time points using standardized assessment tools including the EQ-5D-5L instrument and the EORTC QLQ-C30.