A RANDOMIZED, PLACEBO-CONTROLLED, PHASE 3 TRIAL IN PROGRESS TO EVALUATE THE EFFICACY AND SAFETY OF TISLELIZUMAB PLUS CHEMOTHERAPY AS FIRST-LINE TREATMENT FOR UNRESECTABLE, LOCALLY ADVANCED RECURRENT/METASTATIC ESOPHAGEAL SQUAMOUS CELL CARCINOMA

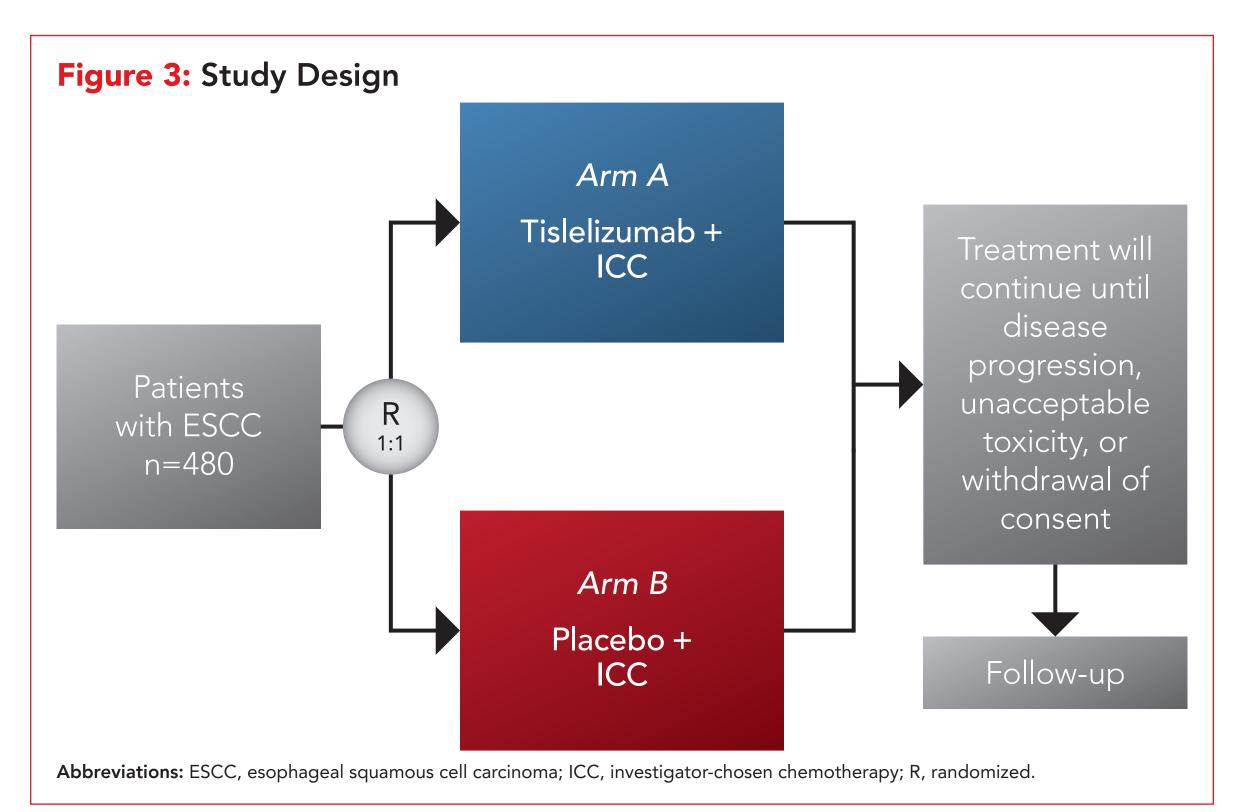
Jianming Xu¹, Ken Kato², Richard Hubner³, Eric Raymond⁴, Yihuan Xu⁵, Sumei Liu⁶, Ibrahim Qazi⁵, Harry Yoon⁷

¹The Fifth Medical Center, People's Liberation Army General Hospital, Beijing, China; ²National Cancer Center Hospital, Tokyo, Japan; ³Christie NHS Foundation Trust, Manchester, UK; ⁴Centre Hospitalier Paris Saint-Joseph, Paris, France; ⁵BeiGene, San Mateo, CA, USA; ⁶ BeiGene (Beijing) Co., Ltd., Beijing, China; ⁷Mayo Clinic, Rochester, MN, USA

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BACKGROUND

- Esophageal cancer is the seventh most common cancer worldwide and the sixth most common cause of cancer-related deaths¹
- Esophageal squamous cell cancer (ESCC) remains the predominant histological subtype and accounts for most deaths from esophageal cancer²
- Monoclonal antibodies against immune checkpoint inhibitory receptors, such as programmed cell death-1 (PD-1), have demonstrated promising antitumor activity and manageable safety in patients with advanced unresectable or metastatic ESCC^{3,}

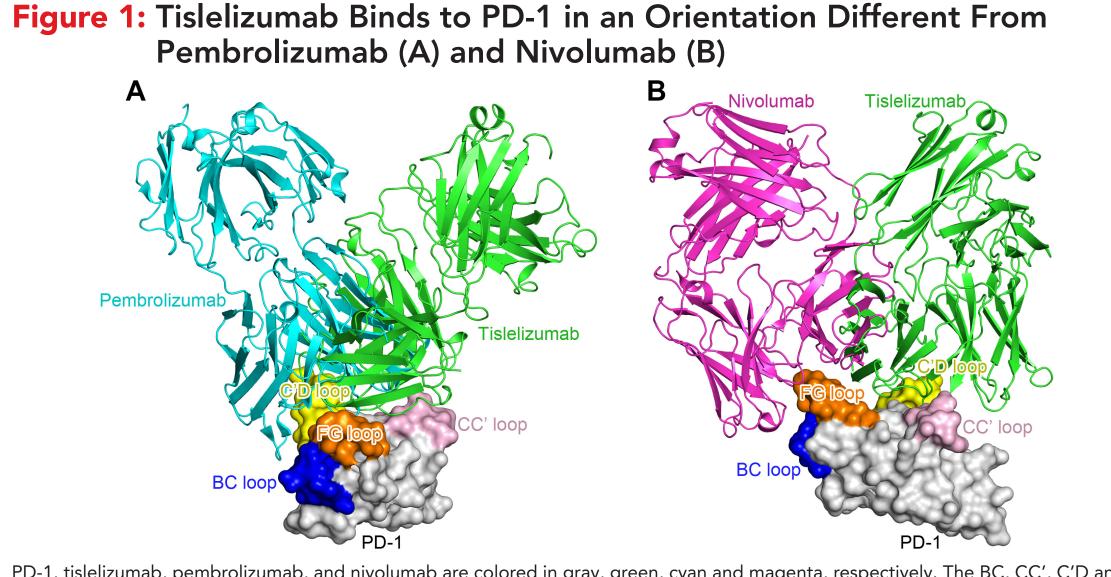


STUDY ASSESSMENTS AND STATISTICAL ANALYSIS

- Tumor assessments will occur at baseline, every 6 weeks for 48 weeks, then every 9 weeks until disease progression
- The primary endpoints, PFS and OS of tislelizumab + ICC versus placebo + ICC, will be assessed using the Kaplan-Meier method; treatment effect will be estimated by the Cox regression model
- Safety will be assessed by the incidence and severity of adverse events (AEs) according to National Cancer Institute Common Terminology Criteria for AEs, v4.03 criteria, physical examinations, vital signs, electrocardiograms, and laboratory test results up to 30 days after the last dose of study drug



- Tislelizumab is an investigational monoclonal antibody with high affinity and specificity for PD-1
- Tislelizumab shows higher affinity to PD-1 than pembrolizumab and nivolumab with ~100- and 50-fold slower off-rates, respectively⁵
- Tislelizumab has a different binding orientation to PD-1 compared with pembrolizumab and nivolumab; the binding surface on PD-1 for tislelizumab partially overlaps with that for pembrolizumab, but differs significantly from that for nivolumab (Figure 1)⁵



PD-1, tislelizumab, pembrolizumab, and nivolumab are colored in gray, green, cyan and magenta, respectively. The BC, CC', C'D and FG loops of PD-1 are colored in blue, pink, yellow and orange, respectively Abbreviations: PD-1, programmed death-1 receptor.

• Tislelizumab was specifically engineered to minimize binding to Fc gamma

METHODS

Overall Design and Study Objectives

- RATIONALE 306 (NCT03783442) is a double-blind, placebo-controlled, randomized, phase 3 study that will be conducted in more than 120 study centers with approximately 480 patients and is designed to evaluate tislelizumab plus chemotherapy as first-line treatment of unresectable, locally advanced recurrent or metastatic ESCC (Figure 3)
- The primary objective is to compare survival (progression-free [PFS] and overall [OS]) of patients treated with tislelizumab plus investigator-chosen chemotherapy (ICC) versus patients treated with placebo plus ICC
- Secondary endpoints will include the safety of combination therapy, objective response rate (ORR), and duration of response (DoR), as assessed by blinded independent review committee per Response Evaluation Criteria in Solid Tumors (RECIST) v1.1 criteria, as well as health-related quality of life measures (European Organization for Research and Treatment of Cancer [EORTC] Quality of Life Questionnaire [QLQ]-C30 index, the EORTC QLQ

- Safety will be performed in the safety analysis set, which will consist of all subjects who receive ≥ 1 dose of the assigned study drug

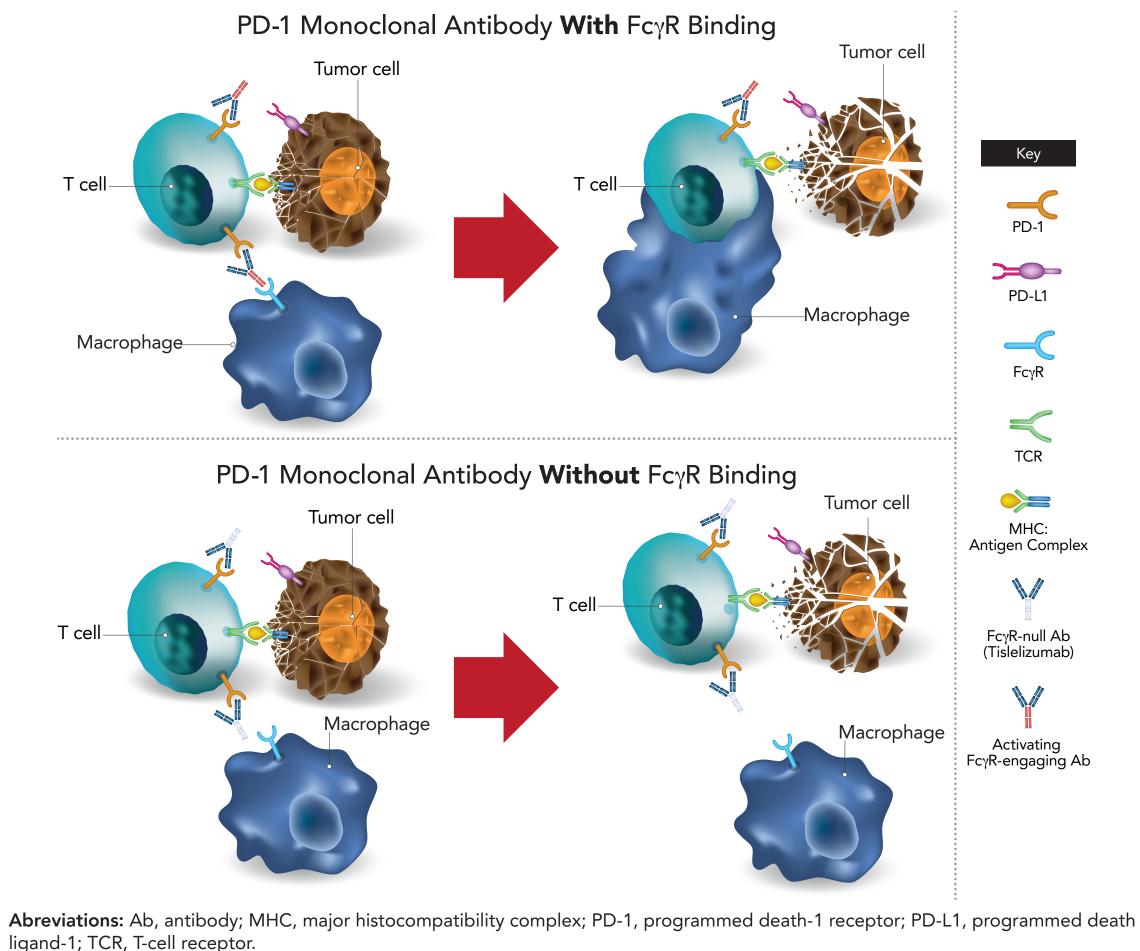
• Quality of life assessments will occur at baseline, on Day 1 of every cycle through Cycle 6, then every other cycle thereafter until the safety follow-up visit

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- receptors ($Fc\gamma Rs$) on macrophages in order to abrogate antibody-dependent phagocytosis, a mechanism of T-cell clearance and potential resistance to anti-PD-1 therapy (Figure 2)^{6,7}
- Results from early phase clinical studies suggest tislelizumab, as a single agent or in combination with chemotherapy, was generally well tolerated and had antitumor activity in patients with advanced solid tumors, including ESCC⁸⁻¹⁰

Figure 2: Lack of FcyR Binding May Help Prevent Macrophage-Mediated **T-Cell Clearance**



esophageal cancer module OES18, and EQ-5D-5L)

Study Population

- Adult patients with histologically confirmed unresectable stage IV ESCC at first diagnosis (or locally advanced recurrent/metastatic disease with a treatment-free interval of at least 6 months), an Eastern Cooperative Oncology Group performance status score of ≤ 1 , and at least one measurable/evaluable lesion as assessed per RECIST v1.1 are eligible
- Patients must not have received prior PD-1 or programmed death ligand-1 or -2 (PD-L1 or PD-L2) therapy, systemic therapy for unresectable locally advanced recurrent or metastatic ESCC, or palliative radiation treatment \leq 4 weeks before treatment
- Patients with evidence of fistula (either esophageal/bronchial or esophageal/ aorta) or uncontrollable pleural effusion, pericardial effusion, or ascites requiring frequent drainage will be excluded from the study

TREATMENT

• Patients will be randomized 1:1 to receive either tislelizumab 200 mg by IV infusion over 30 to 60 minutes every 3 weeks (Q3W; Day 1 of each 21-day cycle) plus ICC (Arm A) or placebo plus ICC (Arm B)

- Randomization will be stratified by region, prior definitive treatment, and ICC

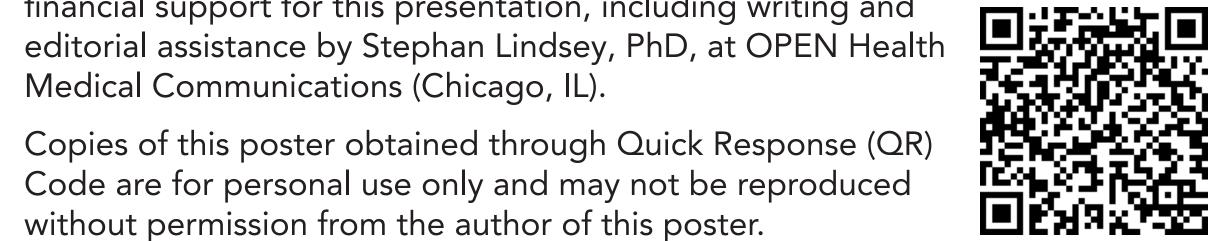
- Investigators can choose from the following chemotherapy options: - Cisplatin 60-80 mg/m² (oxaliplatin 130 mg/m² outside of China or Japan) by IV infusion on Day 1 Q3W + 5-FU 750-800 mg/m² by continuous IV infusion over 24 hours on Days 1-5 Q3W; or
- Cisplatin/oxaliplatin on Day 1 Q3W + oral capecitabine 1000 mg/m² twice daily on Days 1-14 Q3W; or
- Cisplatin/oxaliplatin on Day 1 Q3W + paclitaxel 175 mg/m² IV on Day 1 Q3W

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(cisplatin may be given on an alternate schedule based on local guidelines) • Treatment will be administered until disease progression, intolerable toxicity, or until another treatment discontinuation criterion is met

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