

# **Tislelizumab in Combination with Chemotherapy for First Line Treatment of Esophageal Squamous Cell Carcinoma (ESCC)**

**September 26, 2024**

Oncologic Drugs Advisory Committee

BeiGene



# Introduction

**Mark Lanasa, MD, PhD**

SVP, Chief Medical Officer, Solid Tumors  
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# Agenda

**Rationale-306 Results**

**PD-L1 Subgroup Analyses**

**Mark Lanasa, MD, PhD**

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**Clinical Perspective**

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Hematology and Medical Oncology  
Associate Professor  
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# Additional Experts

## **Patrick Schnell, MD**

Executive Medical Director and  
Global Product Safety Lead  
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## **Hong Tian, PhD**

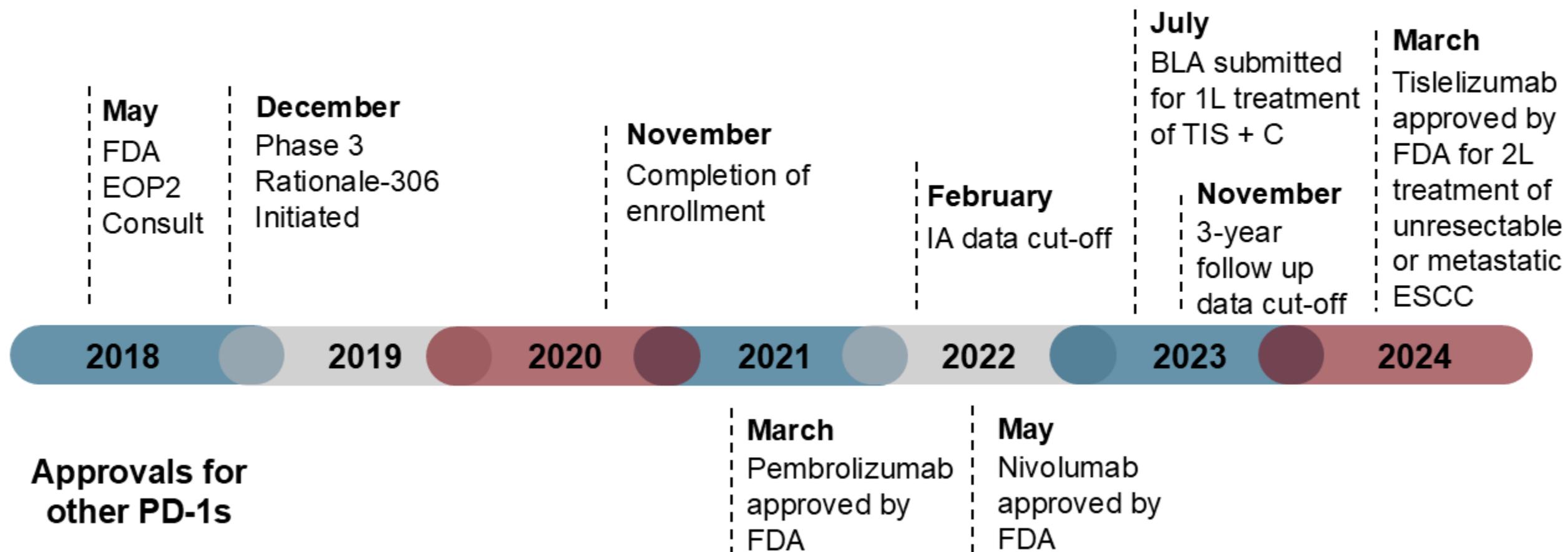
Vice President  
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## **Christopher La Placa, MS**

Senior Biomarker Scientist, Diagnostic  
Development  
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# Tislelizumab Clinical and Regulatory History in ESCC

## Tislelizumab



# Rationale-306 Overview

First-line treatment with tislelizumab in combination with chemotherapy offers substantial improvement in OS

Statistically significant and clinically meaningful improvement in OS, supported by improvements in PFS, ORR, and DOR in overall population

Acceptable safety profile across broad population of patients with ESCC

Additional analyses across PD-L1 expression levels support the benefit of tislelizumab plus chemotherapy in patients with PD-L1  $\geq 1\%$  in locally advanced or metastatic ESCC



# Rationale-306: Efficacy Results

# Rationale-306: Randomized, Double-Blind, Global Phase 3 Study

## Key Eligibility Criteria

- Histologically-confirmed diagnosis of ESCC
- Stage IV unresectable disease at first diagnosis or unresectable, advanced recurrent, or metastatic disease

**R**  
**1:1**

**Tislelizumab 200 mg IV Q3W +**  
(Choice of) platinum [cisplatin or oxaliplatin] + either fluoropyrimidine [5-fluorouracil or capecitabine] or paclitaxel  
N = 326

*Maintenance treatment until unacceptable toxicity or disease progression*

**Placebo IV Q3W +**  
(Choice of) platinum [cisplatin or oxaliplatin] + either fluoropyrimidine [5-fluorouracil or capecitabine] or paclitaxel  
N = 323

# Study Endpoints

	Endpoints
Primary endpoint	OS in ITT
Secondary endpoints	PFS ORR OS in PD-L1 $\geq$ 10%* DOR Safety

\*Requirement for PD-L1 testing added via protocol amendment

ITT: intent-to-treat; PFS: progression-free survival; ORR: objective response rate; DOR: duration of response

# Baseline Demographics Generally Balanced Between Treatment Arms

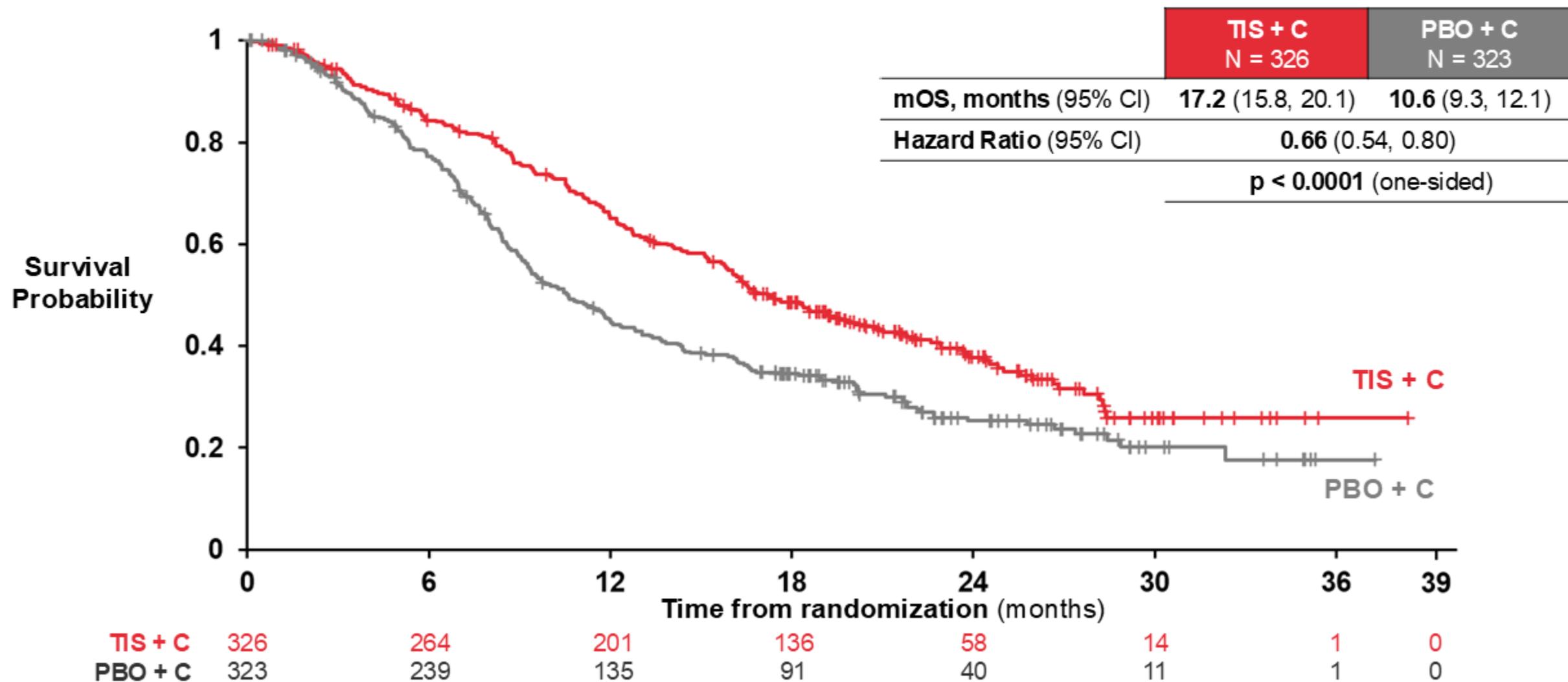
		TIS + C N = 326	PBO + C N = 323
<b>Age, median</b>		<b>64</b>	<b>65</b>
<b>Male</b>		<b>87%</b>	<b>87%</b>
<b>Region</b>	<b>China (including Taiwan)</b>	<b>56%</b>	<b>58%</b>
	<b>Japan</b>	<b>10%</b>	<b>10%</b>
	<b>South Korea</b>	<b>9%</b>	<b>7%</b>
	<b>Australia</b>	<b>0.9%</b>	<b>0.6%</b>
	<b>US</b>	<b>0.3%</b>	<b>0.3%</b>
	<b>Europe</b>	<b>24%</b>	<b>24%</b>

# Baseline Disease Characteristics Balanced and Representative of Target Population

		TIS + C N = 326	PBO + C N = 323
Time since initial diagnosis, median months		2.0	2.3
Disease status	Metastatic	86%	87%
	Locally advanced	14%	13%
Number of metastatic sites	0-2	83%	82%
	> 2	17%	18%
Prior definitive therapy		44%	44%
ECOG PS	0	33%	32%
	1	67%	68%
PD-L1 score	≥ 10%	36%	33%
	< 10%	46%	52%
	Unknown	18%	15%

\*Requirement for PD-L1 testing added in protocol amendment 2

# Primary Endpoint Met – Clinically Meaningful OS Benefit



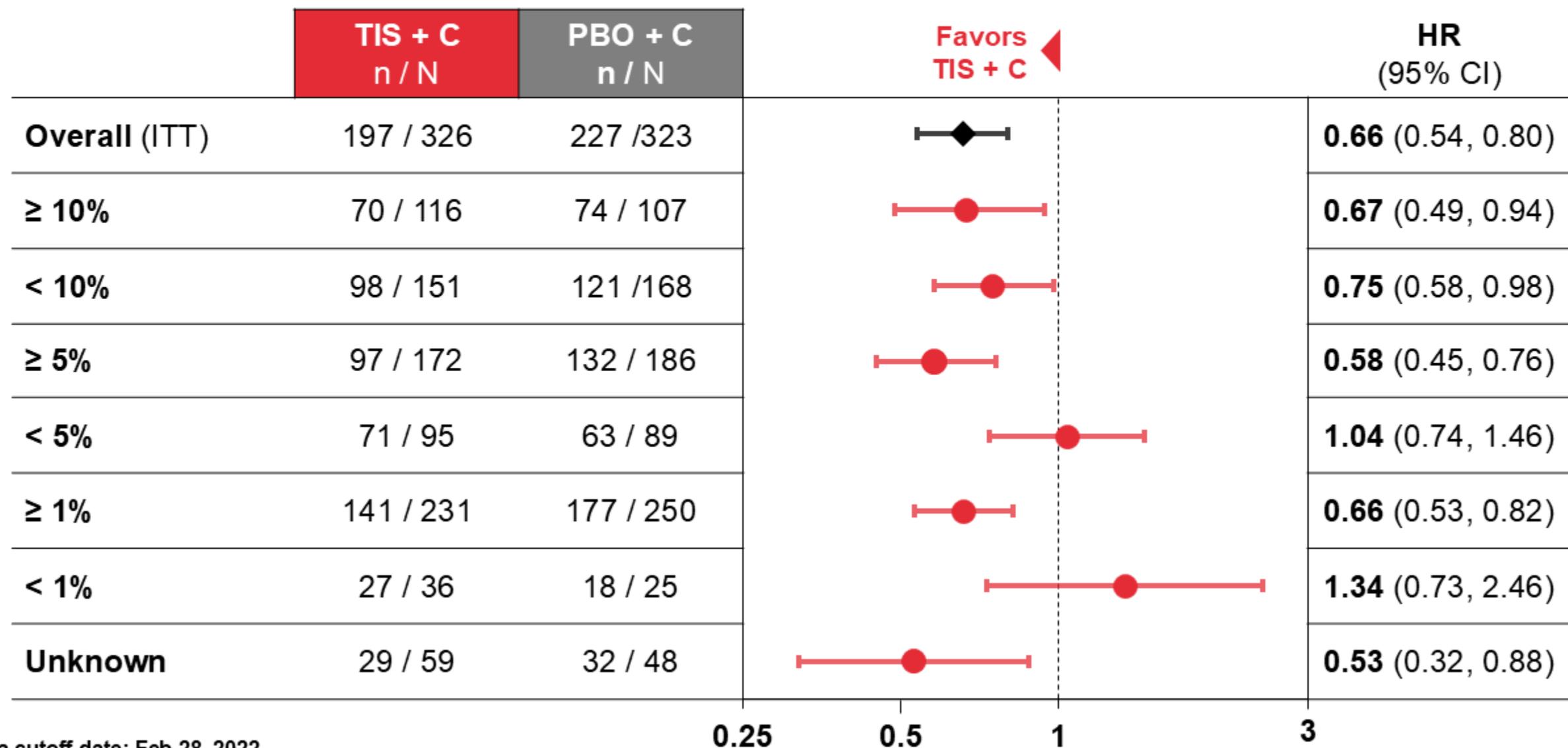
# Tislelizumab Plus Chemotherapy Provides Improvements in PFS, ORR, and DOR

Secondary Endpoints	ITT Population		Hazard Ratio (95% CI)	p-value (one-sided)
	TIS + C N = 326	PBO + C N = 323		
<b>Median PFS, months</b> (95% CI)	<b>7.3</b> (6.9, 8.3)	<b>5.6</b> (4.9, 6.0)	<b>0.62</b> (0.52, 0.75)	<b>&lt; 0.0001</b>
<b>ORR</b> (95% CI)	<b>56.4%</b> (50.9, 61.9)	<b>36.2%</b> (31.0, 41.7)	<b>2.31</b> (1.68, 3.17)	
<b>Median DOR, months</b> (95% CI)	<b>7.4</b> (6.9, 8.5)	<b>6.6</b> (5.6, 8.3)		

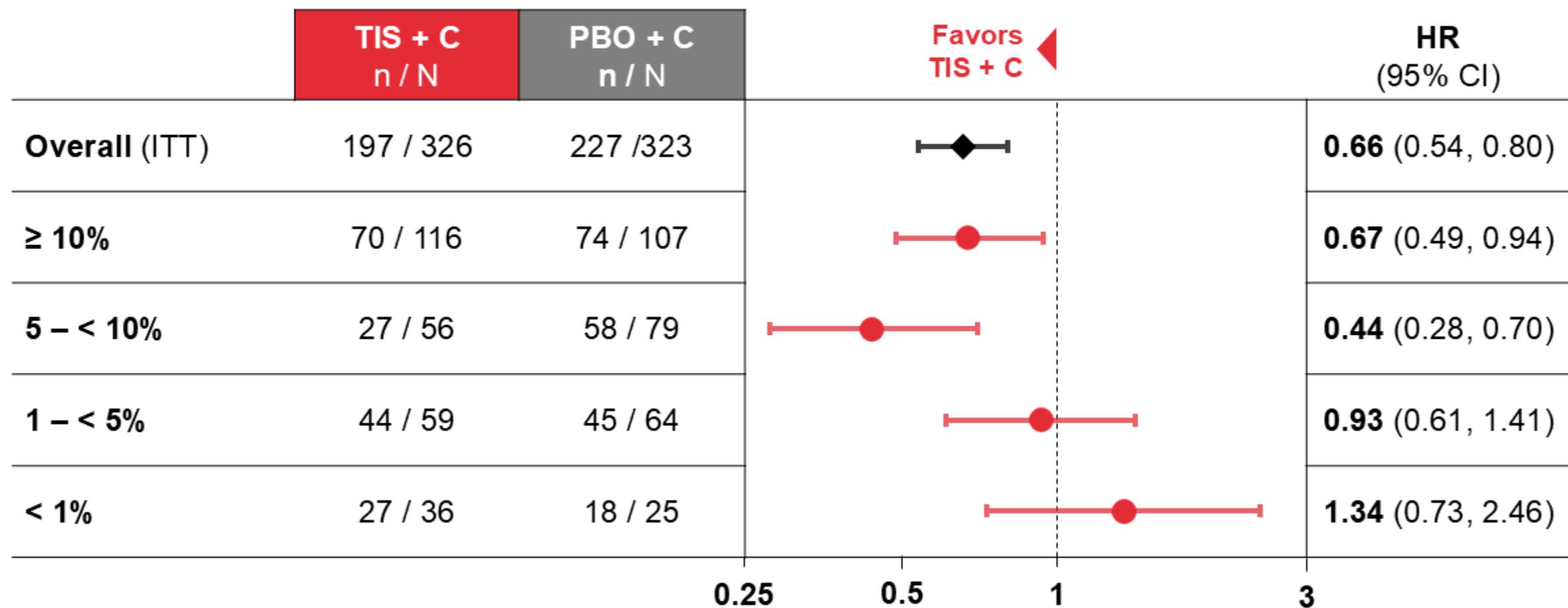


# Rationale-306: PD-L1 Subgroup Analyses

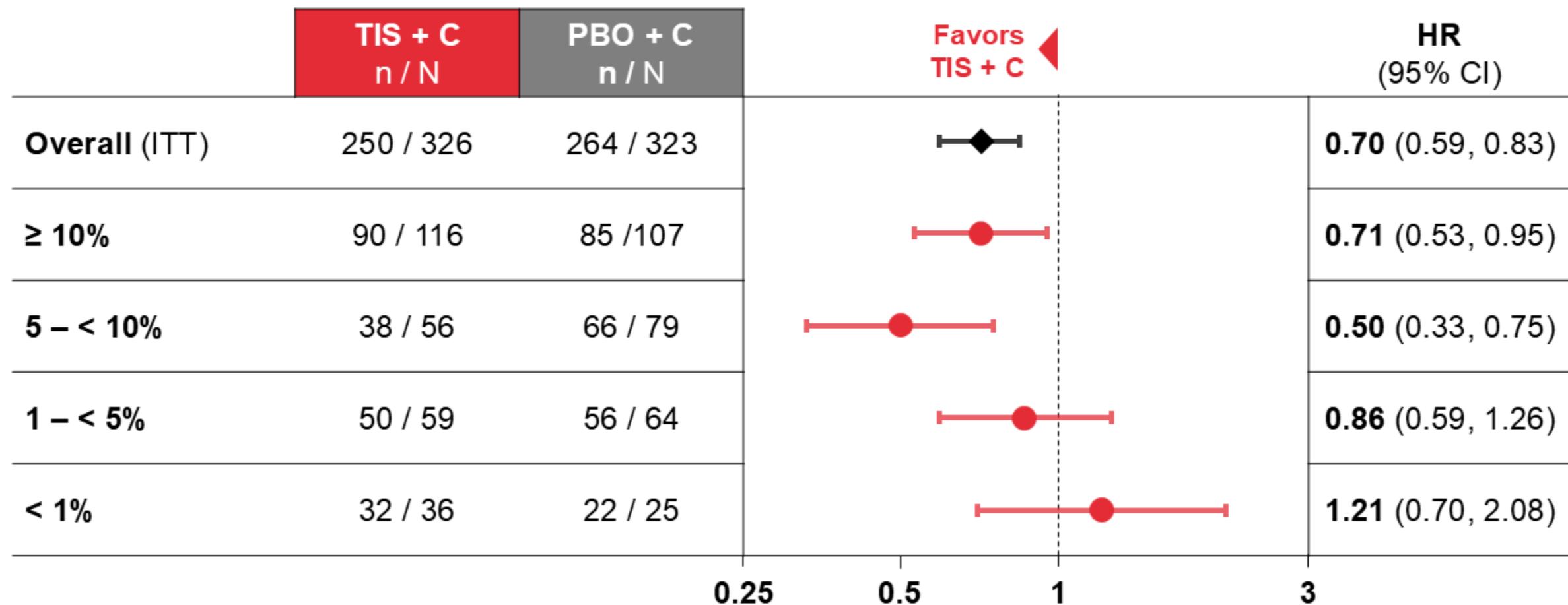
# OS Benefit with Tislelizumab Plus Chemotherapy Across Subgroups with PD-L1 $\geq 1\%$



# OS Analysis Across Subgroups



# OS Analysis Across Subgroups with 3-Year Follow-Up



# 3-Year Follow-Up Shows Tislelizumab Plus Chemotherapy Prolongs Survival Among Patients with PD-L1 $\geq 1\%$

	Median OS (95% CI)		Difference (TIS + C – PBO + C)
	TIS + C	PBO + C	
Overall (ITT)	17.2 (15.8, 20.1)	10.6 (9.3, 12.0)	+ 6.6
$\geq 10\%$	16.6 (15.3, 23.4)	10.0 (8.6, 13.3)	+ 6.6
< 10%	16.0 (12.3, 19.6)	10.4 (9.0, 13.4)	+ 5.6
$\geq 5\%$	19.1 (16.1, 24.1)	10.0 (8.6, 11.9)	+ 9.1
< 5%	12.3 (10.8, 16.0)	10.6 (8.7, 14.4)	+ 1.7
$\geq 1\%$	16.8 (15.3, 20.8)	9.6 (8.9, 11.8)	+ 7.2
< 1%	11.8 (6.2, 16.3)	16.1 (10.4, 27.1)	- 4.3

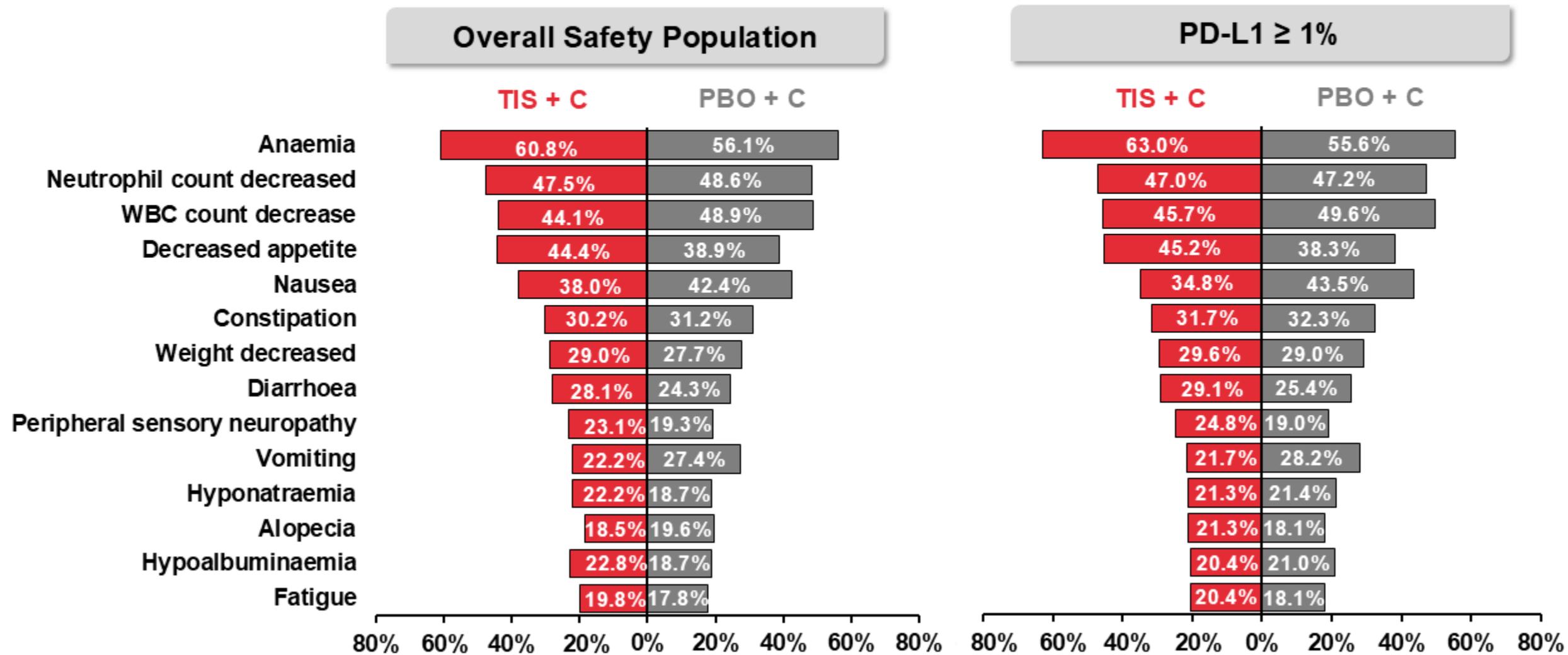


## **Rationale-306: Safety Results**

# Tislelizumab Plus Chemotherapy Has Manageable Safety Profile

	Overall Safety Population		PD-L1 $\geq$ 1%	
	TIS + C N = 324	PBO + C N = 321	TIS + C N = 230	PBO + C N = 248
Any AE	> 99%	> 99%	> 99%	100%
AEs Grade $\geq$ 3	78%	78%	78%	77%
Immune-mediated AEs	35%	19%	39%	20%
AEs leading to any dose modification	76%	71%	75%	72%
AEs leading to any treatment discontinuation	32%	22%	35%	22%
SAEs	48%	40%	47%	39%
AEs leading to deaths	5%	5%	6%	5%

# Most Common AEs Similar Between Tislelizumab Plus Chemotherapy vs Placebo Plus Chemotherapy



## Summary of Tislelizumab Efficacy and Safety

- Rationale-306 showed substantial and significant OS results with tislelizumab plus chemotherapy
- Favorable and clinically meaningful treatment effect observed in patients with low PD-L1 expression
  - Most favorable benefit / risk observed in PD-L1  $\geq$  1% population

**Totally of data support use of tislelizumab plus chemotherapy as 1L treatment option for patients with unresectable advanced or metastatic ESCC**



## **Clinical Perspective**

**Nataliya Uboha, MD, PhD**

Associate Professor

Department of Medicine

Section of Hematology and Medical Oncology

University of Wisconsin School of Medicine

# Patients with Advanced or Metastatic ESCC Face Poor Prognosis with Limited Treatment Options

**< 1%**

**of all cancers in US<sup>1,2</sup>**

**6%**

**5-year survival rate for advanced stage in US<sup>2</sup>;  
one of lowest rates<sup>3</sup>**



**debilitating symptoms, including pain, difficulty eating  
and resultant weight loss**

# Treatment with Anti-PD-1 Antibodies in Combination with Chemotherapy Can Significantly Prolong OS

- PD-L1 testing done for all patients with advanced gastroesophageal cancers regardless of histology
- > 90% of patients with ESCC have PD-L1 score  $\geq$  1%

## Clinical Interpretation of Results

- Tislelizumab addition to chemotherapy improved OS
  - OS HR 0.66 in ITT population
  - Maintained at 3 years
- No benefit in patients with PD-L1 < 1 tumors
- My approach: patients with PD-L1  $\geq 1$  tumors are treated with immunotherapy in combination with chemotherapy

**PD-L1 score of  $\geq 1$  is clinically relevant and recommend as appropriate cutoff**

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**NO BACK UP SLIDES  
SHOWN**