

PANKU-Esophagus01

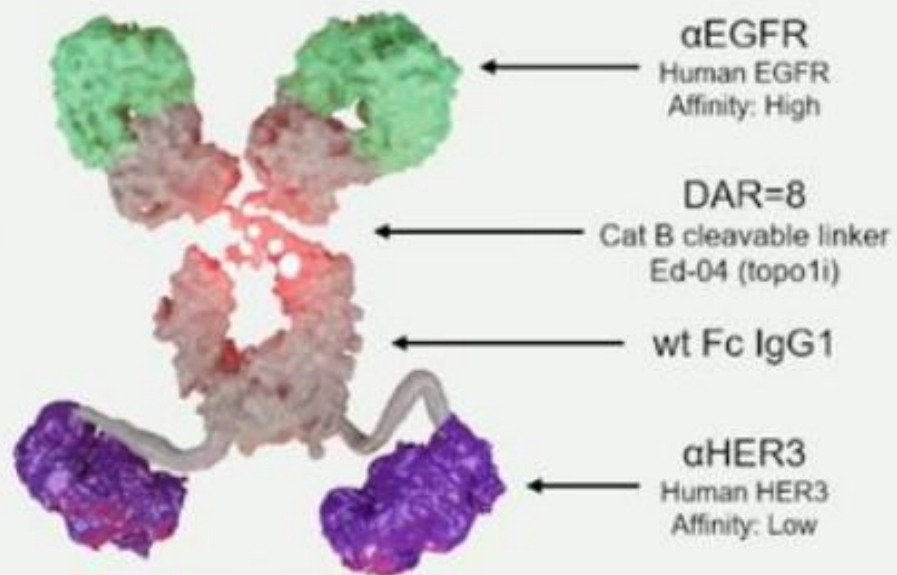
**A Multicenter, Randomized, Open-Label, Phase III Study
Evaluating Izalontamab Brengitecan (Iza-bren) versus
Chemotherapy in Patients with Recurrent or Metastatic
Esophageal Squamous Cell Carcinoma (ESCC)**

PANKU-Esophagus01 Key Takeaways

- The study met both dual primary endpoints of PFS and OS at pre-specified interim analysis.
- The EGFR x HER3 bispecific ADC iza-bren demonstrated statistically significant and clinically meaningful improvements in PFS and OS compared with chemotherapy in patients with recurrent or metastatic ESCC who had progressed after first-line platinum-based chemotherapy plus a PD-1/PD-L1 inhibitor.
- The safety profile was manageable and consistent with previous studies, with no new safety signals observed.
- The results support iza-bren as a possible new second-line standard of care for ESCC in China.

Background

Iza-bren, EGFR x HER3 bispecific ADC



- Chemotherapy plus a PD-1/PD-L1 inhibitor is the standard first-line treatment for advanced ESCC. However, most patients inevitably develop resistance to first-line therapy, and second-line chemotherapy shows an ORR of less than 10% and a median OS of less than 6 months, highlighting an urgent need for novel therapeutics¹⁻³.
- Iza-bren is a potentially first-in-class ADC consisting of an EGFR-HER3 bispecific antibody conjugated to a potent topoisomerase I inhibitor (topo1i) Ed-04 via a cleavable linker.
- Iza-bren has shown promising clinical activity in previously treated ESCC patients in phase I study⁴.

Here, we present the interim results from PANKU-Esophagus01, a randomized phase III study conducted in China, evaluating the efficacy and safety of iza-bren versus chemotherapy as second-line treatment for advanced ESCC (NCT06304974).

PANKU-Esophagus01 Study Design

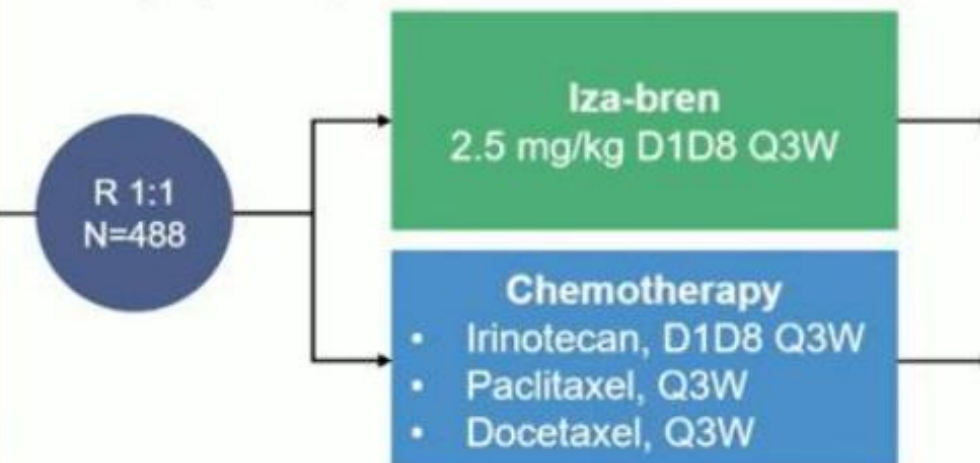
A multicenter, randomized, open-label, phase III study conducted at 80 study centers across China.

Key eligibility criteria

- Histologically or cytologically confirmed recurrent/metastatic ESCC
- Measurable lesion per RECIST v1.1
- Progressed after first-line treatment with a PD-1/PD-L1 inhibitor plus platinum-based chemotherapy
- ECOG PS 0-1

Treatment until

Disease progression per RECIST v1.1 or intolerable toxicity

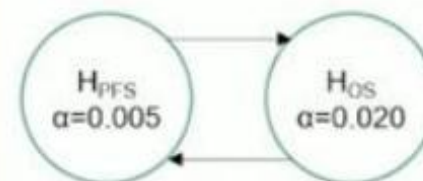


Stratified by

- Baseline ECOG PS (0 vs 1)
- Definitive treatment (surgery or radiotherapy for the primary tumor, yes vs no)

Dual primary endpoints

PFS (BICR) & OS



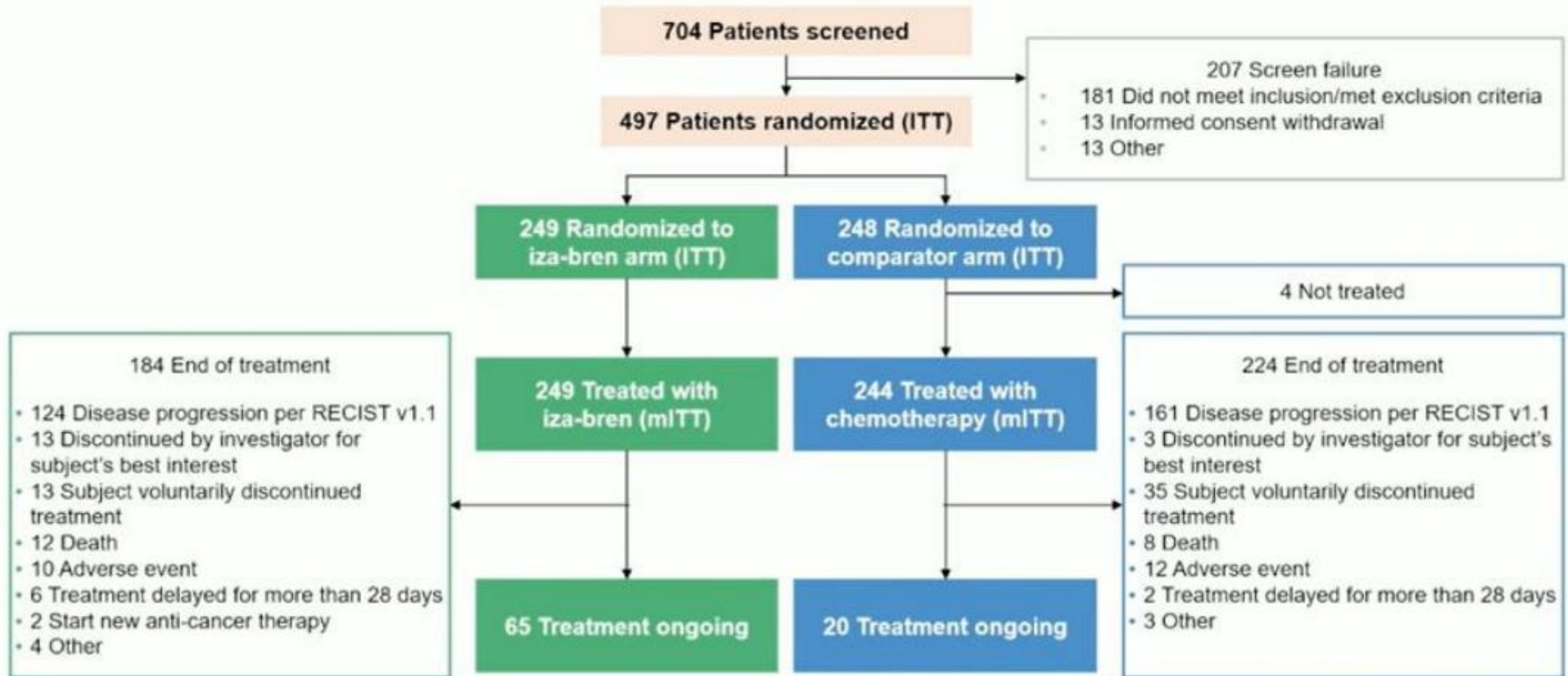
Secondary endpoints

ORR (BICR)
PFS (INV)
DCR, DoR, Safety, PK,
Immunogenicity

Note: The planned enrollment was 488 subjects. Iza-bren was dosed with 10% compensation per protocol; irinotecan 125 mg/m² on days 1 and 8 Q3W; paclitaxel 175 mg/m² on day 1 Q3W; docetaxel 75 mg/m² on day 1 Q3W.

ECOG PS, Eastern Cooperative Oncology Group performance status; **Q3W**, every 3 weeks; **BICR**, blinded independent central review; **INV**, investigator assessed; **PFS**, progression-free survival; **OS**, overall survival; **ORR**, objective response rate; **PK**, pharmacokinetics; **DCR**, disease control rate; **DoR**, duration of response.

Patient Disposition



Data cut off: October 17, 2025

Baseline Characteristics

Characteristics	Iza-bren (N=249)	Chemotherapy (N=244)
Median (range) age, years	61.0 (34.0, 76.0)	60.5 (41.0, 76.0)
Age group (years), n (%)		
< 65	170 (68.3)	173 (70.9)
≥ 65	79 (31.7)	71 (29.1)
Male, n (%)	220 (88.4)	224 (91.8)
ECOG PS, n (%)		
0	41 (16.5)	39 (16.0)
1	208 (83.5)	205 (84.0)
Smoking status, n (%)		
Never/missing	97 (39.0)	87 (35.7)
Former/current	152 (61.0)	157 (64.3)
Prior anti-cancer therapy, n (%)		
PD-1/PD-L1 inhibitor	249 (100)	244 (100)
PBC	249 (100)	244 (100)

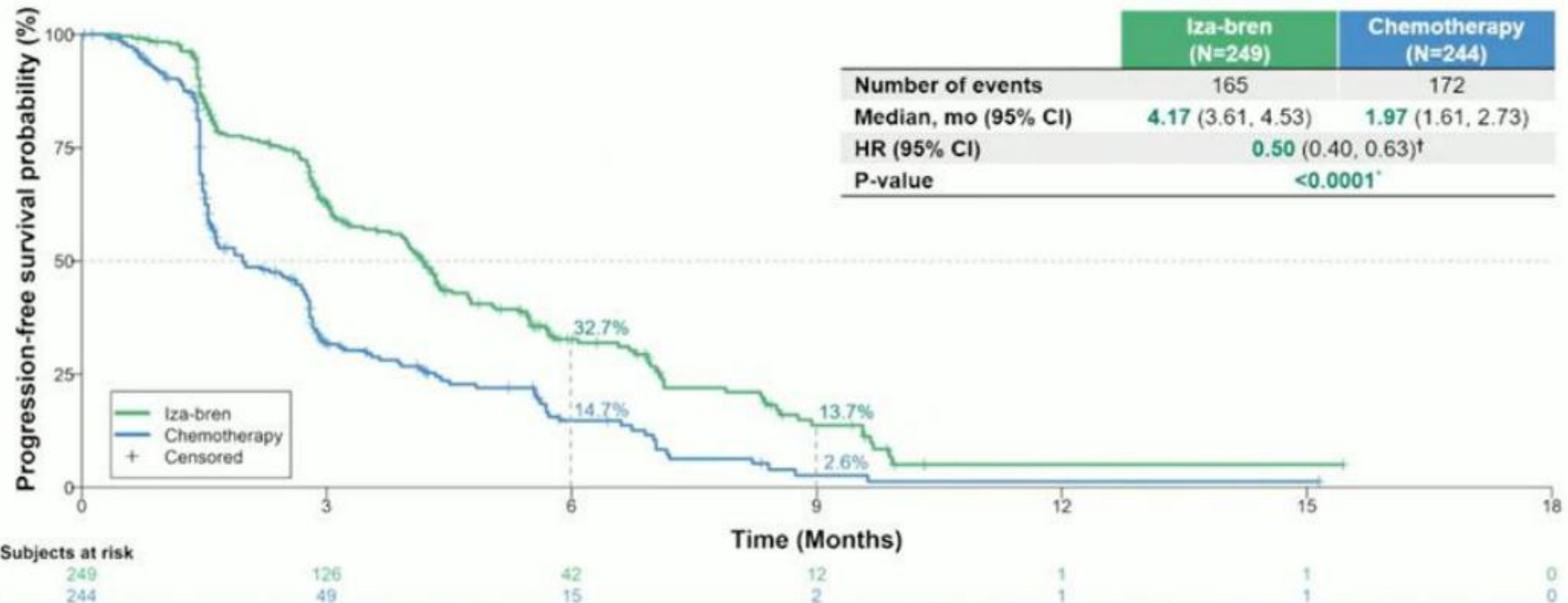
Characteristics	Iza-bren (N=249)	Chemotherapy (N=244)
Definitive surgery or radiotherapy, n (%)		
Yes	139 (55.8)	132 (54.1)
No	110 (44.2)	112 (45.9)
Metastatic site at baseline, n (%)		
Liver	62 (24.9)	74 (30.3)
Bone	30 (12.0)	32 (13.1)
Lung	58 (23.3)	70 (28.7)
Overall stage at baseline, n (%)		
Stage III	11 (4.4)	5 (2.0)
Stage IV	236 (94.8)	237 (97.1)
Missing	2 (0.8)	2 (0.8)
Disease status, n (%)		
Locally Recurrent	19 (7.6)	14 (5.7)
Distant Metastasis	230 (92.4)	230 (94.3)

Baseline characteristics were balanced between the two groups.

PBC, platinum-based chemotherapy.

Analysis set: mITT population, defined as all randomized patients who received at least one dose of study drug.

PFS (BICR): Dual Primary Endpoint



Iza-bren showed statistically significant and clinically meaningful improvement in PFS vs chemotherapy (median Δ 2.20 mo).

PFS (BICR) was evaluated in the mITT population. The median duration of follow-up for PFS was 5.8 months.

Similar results were observed for PFS (BICR) in the ITT population, with 165 events in the Iza-bren arm and 173 events in the chemotherapy arm. The hazard ratio (95% CI) was 0.50 (0.40, 0.63).

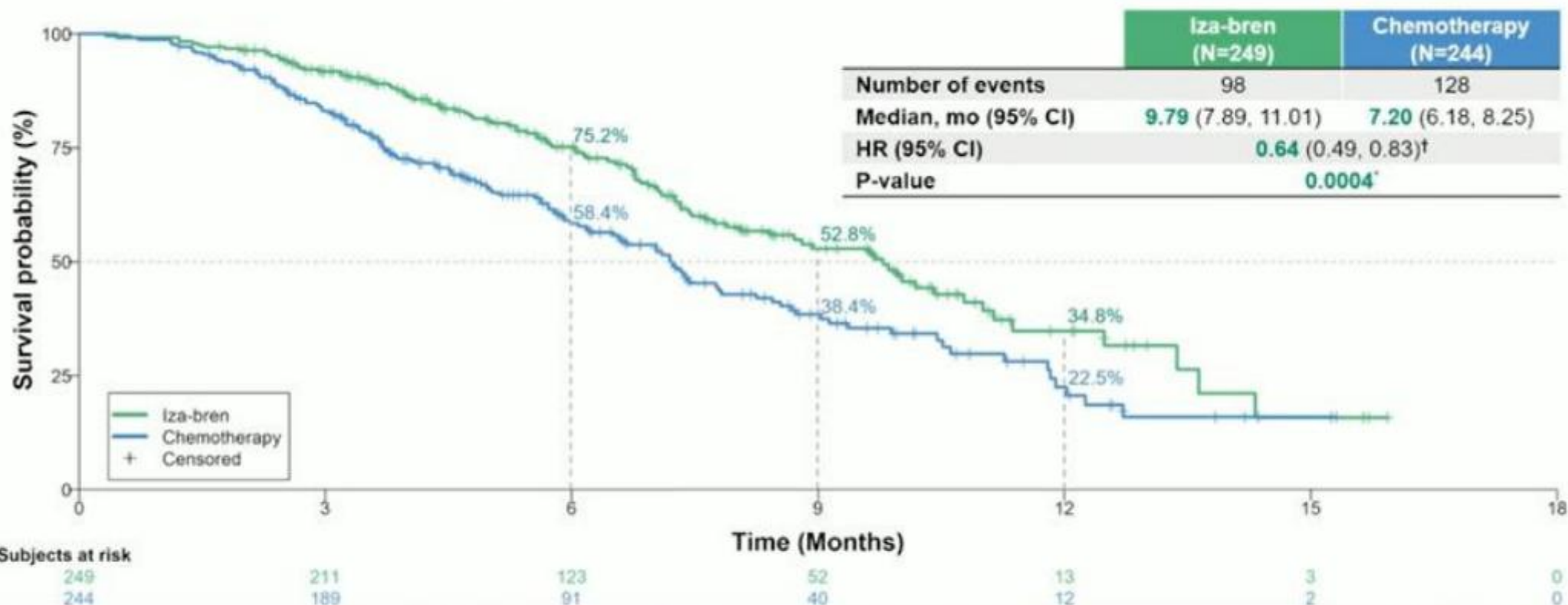
[†]Based on a stratified Cox regression model. *One-sided, based on a stratified log-rank test.

Subgroup Analysis of PFS (BICR)



Consistent PFS benefit was seen across the various subgroups.

OS: Dual Primary Endpoint



Iza-bren showed statistically significant and clinically meaningful improvement in OS vs chemotherapy (median Δ 2.59 mo).

OS was evaluated in the mITT population. The median duration of follow-up for OS was 7.8 months. At the analysis, the information fraction was 71.7%. A P-value of 0.00602 was required for interim analysis superiority.

Similar results were observed for OS in the ITT population, with 98 events in the Iza-bren arm and 130 events in the chemotherapy arm. The hazard ratio (95% CI) was 0.63 (0.48, 0.82).

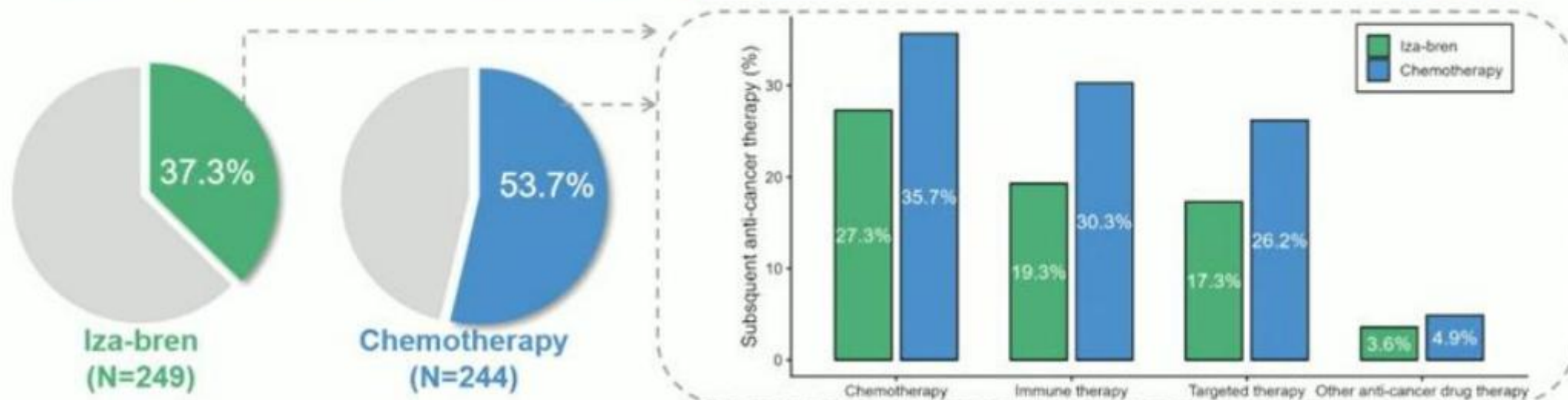
[†]Based on a stratified Cox regression model. ^{*}One-sided, based on a stratified log-rank test.

Subgroup Analysis of OS



Consistent OS benefit was seen across the various subgroups.

Most Common Subsequent Anti-cancer Therapy



- More patients in the chemotherapy arm (53.7%) received at least one subsequent anti-cancer therapy than the iza-bren arm (37.3%).
- In the iza-bren arm and the chemotherapy arm, the most common subsequent chemotherapies were pyrimidine analogues (20.1% vs. 23.4%), platinum compounds (13.3% vs. 16.8%), taxanes (10.0% vs. 12.7%), and topo1i (6.0% vs. 5.3%), respectively.
- In the iza-bren arm and the chemotherapy arm, the most common subsequent immune therapies were PD-1/PD-L1 inhibitors (16.1% vs. 26.6%).

Note: Data for the new anti-cancer drug therapy were presented.

ORR (BICR): Secondary Endpoint

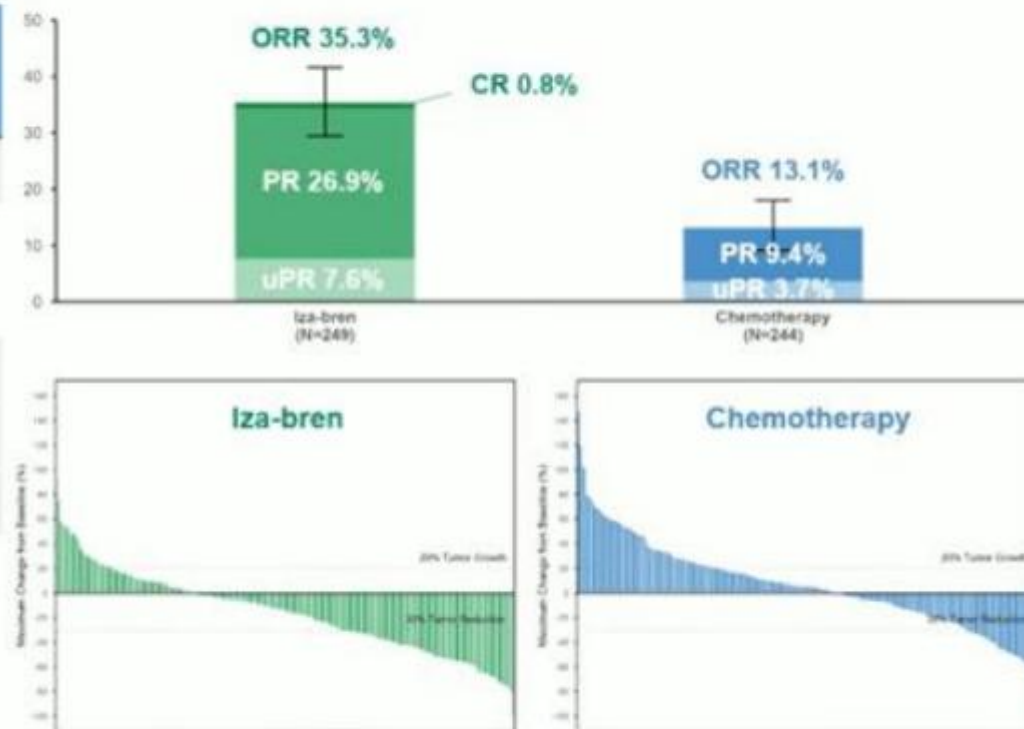
	iza-bren (N=249)	Chemotherapy (N=244)
ORR, % (95% CI)	35.3 (29.4, 41.6)	13.1 (9.1, 18.0)
Confirmed ORR, % (95% CI)	27.7 (22.2, 33.7)	9.4 (6.1, 13.8)
Odds ratio (95% CI)	3.6 (2.2, 6.1)	
DCR, % (95% CI)	74.3 (68.4, 79.6)	45.5 (39.1, 52.0)
Median DoR, mo (95% CI)	5.7 (4.1, 6.9)	5.6 (4.2, 6.8)
Median TTR, mo (range)	1.5 (0.7, 9.9)	1.5 (1.3, 4.8)

CR, complete response; PR, partial response; uPR, PR pending confirmation

ORR (BICR) was evaluated based on mITT population.

ORs were calculated using the stratified Mantel-Haenszel method.

In the iza-bren arm, 65.9% of patients (164/249) had tumor shrinkage and the median (range) shrinkage (%) was -31.5 (-100.0, -0.7); in the chemotherapy arm, 38.5% of patients (94/244) had tumor shrinkage and the median (range) shrinkage (%) was -20.5 (-80.5, -0.2).



ORR (BICR) was approximately three-fold higher in iza-bren arm compared with chemotherapy arm.

Safety Summary

Characteristics	Iza-bren (N=249)	Chemotherapy (N=244)
TRAEs, n (%)	249 (100)	237 (97.1)
≥Grade 3 TRAEs, n (%)	212 (85.1)	147 (60.2)
Treatment-related SAEs, n (%)	112 (45.0)	74 (30.3)
TRAEs leading to death, n (%)	3 (1.2)	4 (1.6)
TRAEs leading to treatment discontinuation, n (%)	5 (2.0)	8 (3.3)
TRAEs leading to dose reduction, n (%)	141 (56.6)	70 (28.7)
TRAEs leading to dose interruption, n (%)	151 (60.6)	91 (37.3)

TRAE, treatment related adverse events.

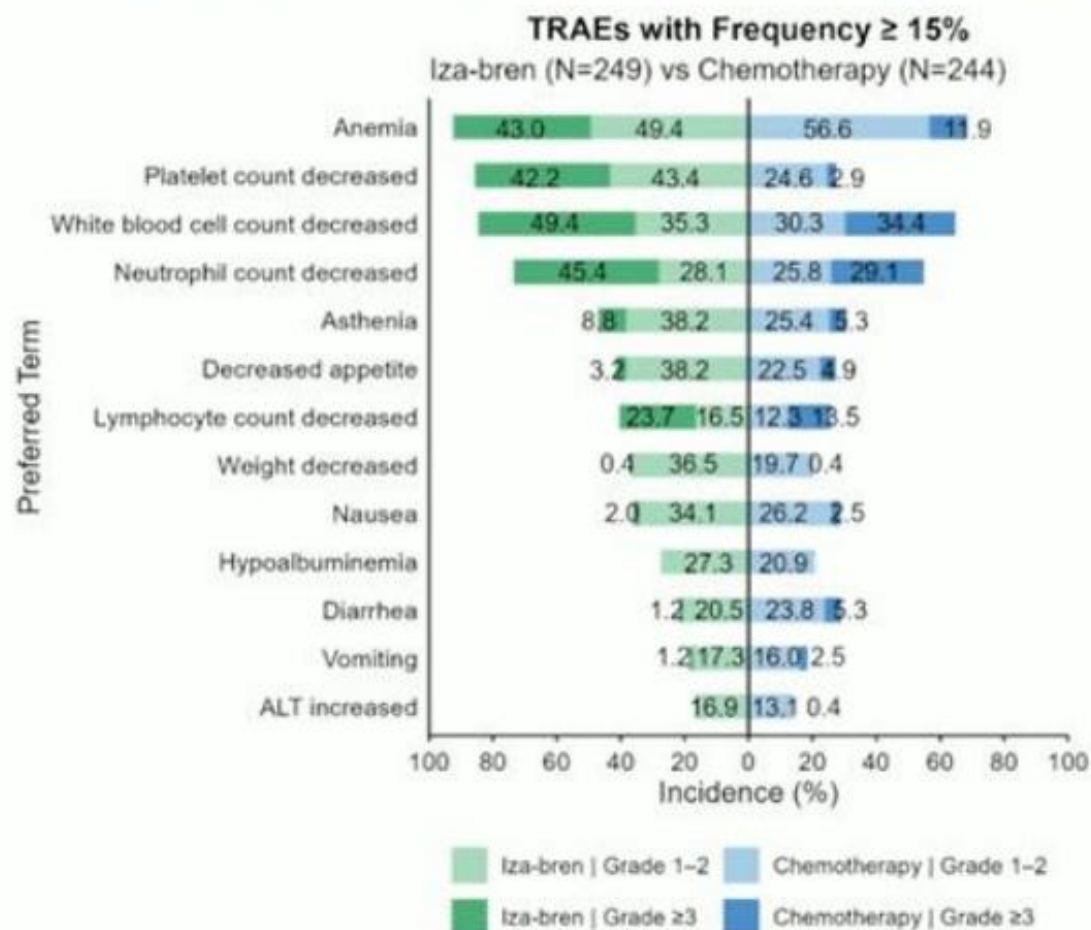
Safety data based on the safety analysis set. GCSF was not mandatory in this study.

TRAEs leading to death occurred in 3 patients (1.2%) receiving iza-bren: septic shock (1), pneumonia (1), interstitial lung disease (1, with pulmonary interstitial changes at baseline).

TRAEs leading to death occurred in 4 patients (1.6%) receiving chemotherapy: sepsis (1), death (3).

- Median (range) duration of treatment, mo:
 - Iza-bren: 3.5 (0.3, 16.1)
 - Chemotherapy: 1.6 (0.1, 15.9)
- Median (range) number of treatment cycles:
 - Iza-bren: 4 (1, 23)
 - Chemotherapy: 2 (1, 23)
- Iza-bren had a manageable safety profile. The rate of treatment discontinuation due to TRAEs was low (2.0%) vs chemotherapy (3.3%).
- TRAEs leading to death occurred in 3 patients (1.2%) receiving iza-bren and in 4 patients (1.6%) receiving chemotherapy.

TRAEs in $\geq 15\%$ of Patients



- TRAEs were managed through standard supportive measures including dose delay and dose reductions, which allowed majority of patients to continue iza-bren treatment with low discontinuation rate.
- Grade ≥ 3 anemia resolved in a median of 10.0 days in the iza-bren arm and 9.5 days in the chemotherapy arm.
- Grade ≥ 3 neutropenia and thrombocytopenia generally resolved within 4 days in the iza-bren arm.
- Non-hematologic AEs were mostly low grade; asthenia was the most common in both groups (47.0% with iza-bren and 30.7% with chemotherapy), followed by decreased appetite (41.4% and 27.5%, respectively).
- The rates of all grade and grade 3 or higher ILD were low in the iza-bren arm (1.6% / 0.8%) and chemotherapy arm (0.4% / 0%).

Conclusions

- The study has met both dual primary endpoints of PFS and OS at the pre-specified interim analysis.
- Iza-bren has demonstrated statistically significant and clinically meaningful improvements in PFS and OS compared with chemotherapy in patients with recurrent or metastatic ESCC who had progressed after first-line platinum-based chemotherapy plus a PD-1/PD-L1 inhibitor.
 - The median PFS was 4.17 months with iza-bren and 1.97 months with chemotherapy (HR=0.50, P<0.0001).
 - The median OS was 9.79 months with iza-bren and 7.20 months with chemotherapy (HR=0.64, P=0.0004).
- The safety profile was manageable.
 - Through dose delay, dose reduction, and supportive care, most patients were able to continue iza-bren treatment and only 5 (2.0%) patients discontinued treatment due to TRAEs.
 - Most common TRAEs were hematologic. ILD rate was low.
- The results support iza-bren as a possible new standard of care in China for the treatment of ESCC in second-line after progression on platinum-based chemotherapy plus a PD-1/PD-L1 inhibitor.