

AACR American Association
for Cancer Research®
ANNUAL MEETING
2024 • SAN DIEGO



APRIL 5-10

#AACR24
AACR.ORG/AACR24



Cadonilimab plus chemotherapy versus chemotherapy as first-line treatment for unresectable locally advanced or metastatic gastric or gastroesophageal junction (G/GEJ) adenocarcinoma (COMPASSION-15): a randomized, double-blind, phase 3 trial.

Jiafu Ji¹, Lin Shen¹, Ziyu Li¹, Xiaotian Zhang¹, Xiangyu Gao¹, Yanqiao Zhang², Bo Liu³, Yusheng Wang⁴, Ning Li⁵, Yi Ba⁶, Ruixing Zhang⁷, Jingdong Zhang⁸, Ye Chen⁹, Jian Chen¹⁰, Yang Fu¹¹, Mingzhu Huang¹², Mulin Liu¹³, Zheng Liu¹⁴, Jun Zhao¹⁵, Wei Li¹⁶, Changzheng Li¹⁷, Jia Wei¹⁸, Nong Xu¹⁹, Bangwei Cao²⁰, Zengqing Guo²¹, Lian Liu²², Peng Nie²³, Lili Sheng²⁴, Lixin Wan²⁵, Kangsheng Gu²⁶, Zhenyang Liu²⁷, Weibo Wang²⁸, Yifu He²⁹, Guowu Wu³⁰, Futong Zhang³¹, Jun Guo³², Wensheng Qiu³³, Jieer Ying³⁴, Hongming Pan³⁵, Yuansong Bai³⁶, Huiting Xu³⁷, Zhenghua Wang³⁸, Yuan Yuan³⁹, Xuehong Zhao⁴⁰, Jiye Xu⁴¹, Zhifang Yao⁴², Wei Liu⁴², Zhongmin Maxwell Wang⁴², Baiyong Li⁴², Yu Xia⁴²

¹Beijing cancer hospital, Beijing, China; ²Affiliated Tumor Hospital of Harbin Medical University, Harbin, China; ³Ward 3 Department of Gastroenterology shandong Cancer hospital, Shandong, China; ⁴Shanxi Cancer Hospital, Shanxi, China; ⁵Henan Cancer Hospital, Henan, China; ⁶Tianjin Medical University Cancer Institute & Hospital, Tianjin, China; ⁷Fourth Hospital of Hebei Medical University, Hebei, China;

⁸Liaoning Provincial Cancer Hospital, Liaoning, China; ⁹The First Affiliated Hospital of Henan University of Science and Technology, Henan, China; ¹⁰Yantai Yuhuangding Hospital, Shandong, China; ¹¹The First Affiliated Hospital of Zhengzhou University, Henan, China; ¹²Fudan University Cancer Hospital, Shanghai, China; ¹³The First Affiliated Hospital of Bengbu Medical College, Anhui, China; ¹⁴Handan Central Hospital, Hebei, China; ¹⁵Changzhi People's Hospital, Shanxi, China; ¹⁶The First Hospital of Jilin University, Jilin, China; ¹⁷Ward 1 Department of Gastroenterology shandong Cancer hospital, Shandong, China; ¹⁸Drum Tower Hospital Affiliated to Nanjing University Medical School, Jiangsu, China; ¹⁹The First Affiliated Hospital of Zhejiang University School of Medicine, Zhejiang, China; ²⁰Beijing Friendship Hospital,Capital Medical University, Beijing, China; ²¹Fujian Provincial Cancer Hospital, Fujian, China; ²²Qilu Hospital of Shandong University, Shandong, China; ²³Wuwei Cancer Hospital, Gansu, China; ²⁴Yijishan Hospital of Wannan Medical College, Anhui, China; ²⁵Nanyang Central Hospital, Henan, China; ²⁶The First Affiliated Hospital of Anhui Medical University, Anhui, China; ²⁷Hunan Cancer Hospital, Hunan, China; ²⁸Shandong Provincial Hospital, Shandong, China; ²⁹Anhui Provincial Cancer Hospital, Anhui, China; ³⁰Meizhou People's Hospital, Guangdong, China; ³¹Shijiazhuang People's Hospital, Hebei, China; ³²Xingtai People's Hospital, Hebei, China; ³³Affiliated Hospital of Qingdao University, Shandong, China; ³⁴Zhejiang Cancer Hospital, Zhejiang, China; ³⁵Run Run Shaw Hospital Affiliated to Zhejiang University School of Medicine, Zhejiang, China; ³⁶China-Japan Union Hospital Of Jilin University, Jilin, China; ³⁷Hubei Cancer Hospital, Hubei, China; ³⁸The Fist Affiliated Hospital Of Jinzhou Medical University, Liaoning, China; ³⁹Xuzhou Central Hospital, Jiangsu, China; ⁴⁰Linfen Central Hospital, Shanxi, China; ⁴¹Zhoukou Central Hospital, Henan, China; ⁴²AkesoBiopharma,Inc., Zhongshan, China.

Jiafu Ji

**I have no financial conflicts of interest to disclose
concerning the presentation.**

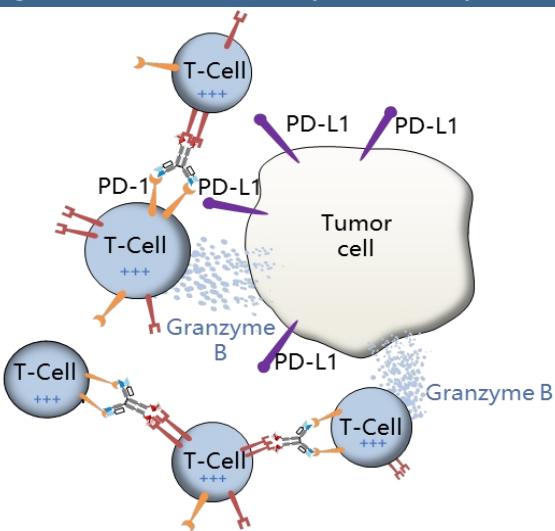
Background

- Gastric cancer is the fifth most common cancer and the fourth leading cause of cancer mortality worldwide¹.
- PD-1 inhibitors plus chemotherapy (chemo) have shown efficacy in first-line treatment of advanced G/GEJ adenocarcinoma; however, survival benefits are limited in patients with low PD-L1 expression²⁻⁸.
- Cadonilimab is a PD-1/CTLA-4 bispecific antibody; in the phase Ib/II (AK104-201, COMPASSION-03) study cadonilimab plus chemo has shown encouraging tumour response and survival benefits in patients with G/GEJ adenocarcinoma regardless of PD-L1 expression (NCT03852251)⁹. The median PFS was 9.20 months. The median OS was 17.41 months. In pts with PD-L1 CPS≥5 and CPS<5, the median OS was 20.24 months and 17.28 months, respectively.
- This phase III (AK104-302, COMPASSION-15) study evaluated the efficacy and safety of cadonilimab plus chemo vs chemo alone as the first-line treatment in G/GEJ adenocarcinoma (NCT05008783).

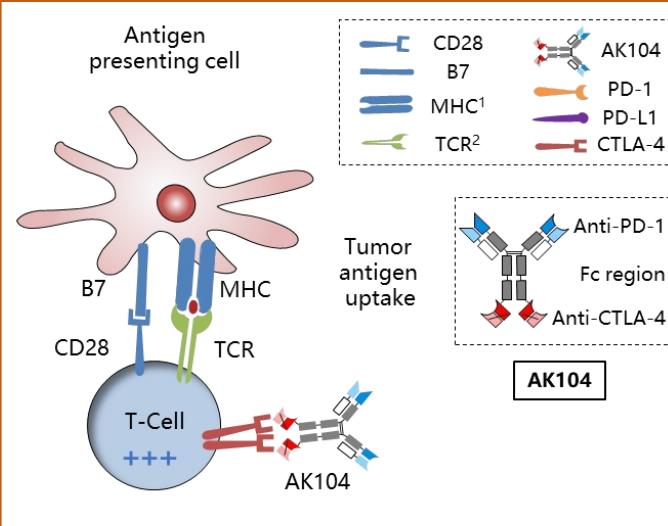
1. Sung, H., et al. CA Cancer J Clin, 2021. 71(3): p. 209-249.
2. Janjigian, Y.Y., et al. Lancet, 2021. 398(10294): p. 27-40.
3. Shitara, K., et al. Nature, 2022. 603(7903): p. 942-948.
4. Xu, J., et al. Cancer Research, 2023. 83(8_Supplement): p. CT078-CT078.
5. Zhang, X., et al. Annals of Oncology, 2023. 34.
6. Xu, R.H., et al. Annals of Oncology, 2023. 34: p. S1320-S1321.
7. Rha, S.Y., et al. Lancet Oncol, 2023. 24(11): p. 1181-1195.
8. Zhao, J.J., et al. J Clin Oncol, 2022. 40(4): p. 392-402.
9. Jiafu Ji., et al. JCO 41, 4031-4031(2023).

Cadonilimab: PD-1/CTLA-4 bispecific antibody

Tumor microenvironment
(high functional affinity or avidity)



Peripheral
(lower binding avidity)

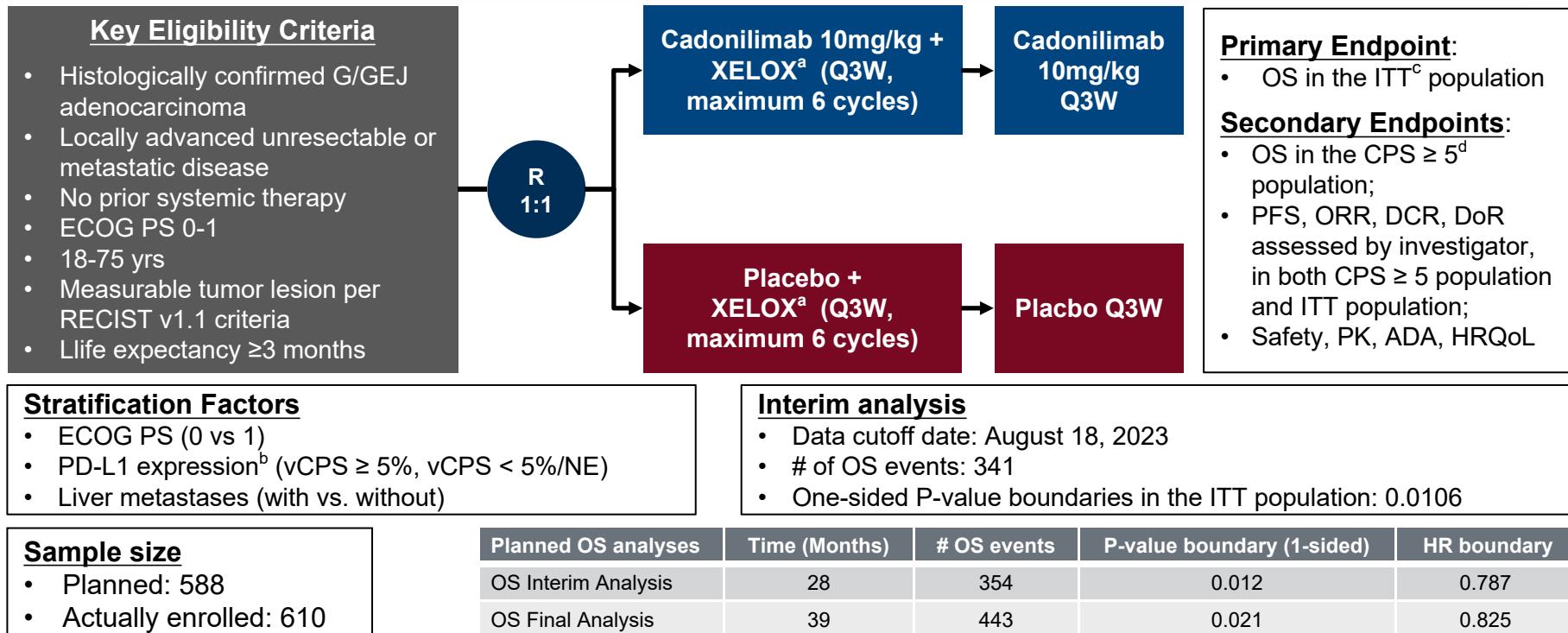


- PD-1/CTLA-4 bi-specific may display higher avidity for lymphocytes in the tumor micro-environment versus peripheral sites
- PD-1 and CTLA-4 co-express in tumor infiltrating lymphocytes (TILs), but not in normal peripheral tissue lymphocytes

- AK104 is a first-in-class humanized bi-specific antibody drug candidate targeting PD-1 and CTLA-4 simultaneously;
- AK104 is designed as a novel tetrameric form, which could bind tetravalently to TILs co-expressing PD-1 & CTLA-4 with higher avidity;
- Therefore, AK104 is designed to retain the efficacy benefit of combination of PD-1 and CTLA-4, and offer a better safety profile than the combination therapy.

COMPASSION-15 (AK104-302) Study Design

Randomized, Double-blind, Phase 3 Trial



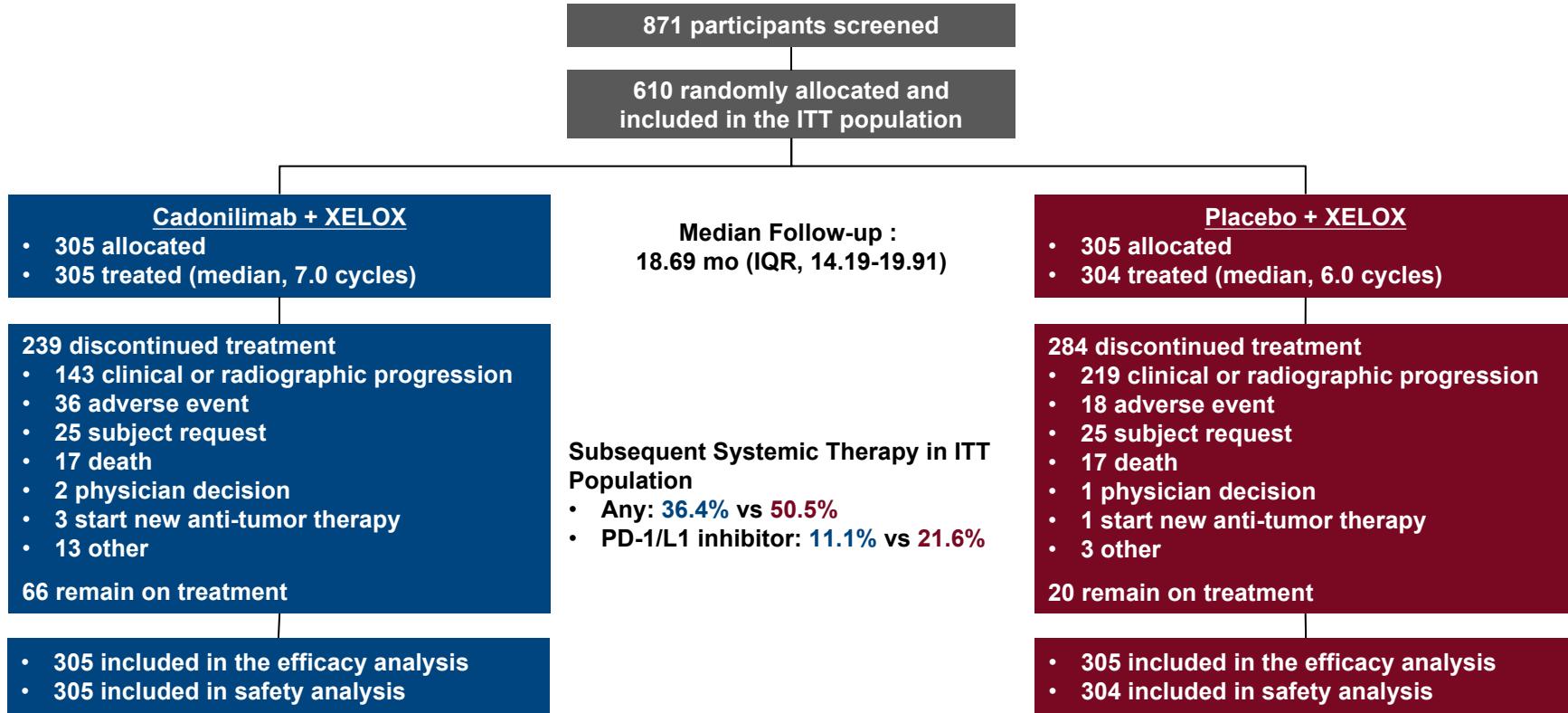
^a XELOX: capecitabine 1000 mg/m² orally twice daily on days 1-14 Q3W + oxaliplatin 130 mg/m² IV Q3W.

^b vCPS is an indicator to detect PD-L1 expression levels in tumor tissues using Ventana SP263.

^c ITT: intent-to-treat

^d CPS is an indicator to detect PD-L1 expression levels in tumor tissues using 22C3 assay (DAKO).

Patient Flow



Baseline Characteristics

	Cadonilimab + XELOX (N=305)	Placebo + XELOX (N=305)		Cadonilimab + XELOX (N=305)	Placebo + XELOX (N=305)
Age, median (range)	63.7 (29, 75)	64.3 (26, 75)	Site of metastases, n(%)		
<65, n(%)	170 (55.7)	164 (53.8)	Liver	144 (47.2)	143 (46.9)
≥65, n(%)	135 (44.3)	141 (46.2)	Lung	51 (16.7)	46 (15.1)
Sex, n(%)			Peritoneum	43 (14.1)	38 (12.5)
Female	66 (21.6)	70 (23.0)	PD-L1 Expression (22C3), n(%)		
Male	239 (78.4)	235 (77.0)	CPS < 1	72 (23.6)	68 (22.3)
Baseline ECOG PS, n(%)			CPS 1-4	85 (27.9)	79 (25.9)
0	70 (23.0)	72 (23.6)	CPS 5-9	44 (14.4)	59 (19.3)
1	235 (77.0)	233 (76.4)	CPS ≥ 10	72 (23.6)	81 (26.6)
Primary Tumor Location, n(%)			Missing	32 (10.5)	18 (5.9)
GEJ Adenocarcinoma	63 (20.7)	74 (24.3)	PD-L1 Expression (SP263), n(%)		
Gastric Adenocarcinoma	242 (79.3)	231 (75.7)	vCPS ≥ 5%	122 (40.0)	123 (40.3)
Disease status, n(%)			vCPS < 5%	166 (54.4)	173 (56.7)
Recurrent Disease	65 (21.3)	59 (19.3)	Missing	17 (5.6)	9 (3.0)
Locally advanced unresectable	9 (3.0)	14 (4.6)			
Primary Metastasis	231 (75.7)	232 (76.1)			

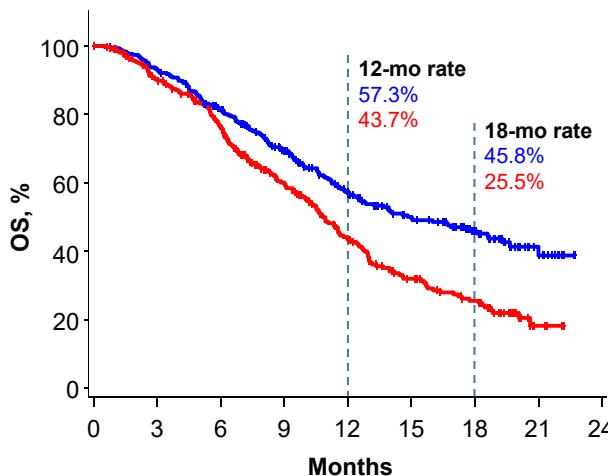
Overall Survival

ITT Population

	Cadonilimab+XELOX N=305	Placebo+XELOX N=305
Median, mo	15.0	10.8
(95% CI)	(12.3, 19.3)	(9.8, 12.0)

HR (95% CI)
P value

0.62 (0.50-0.78)
<0.001



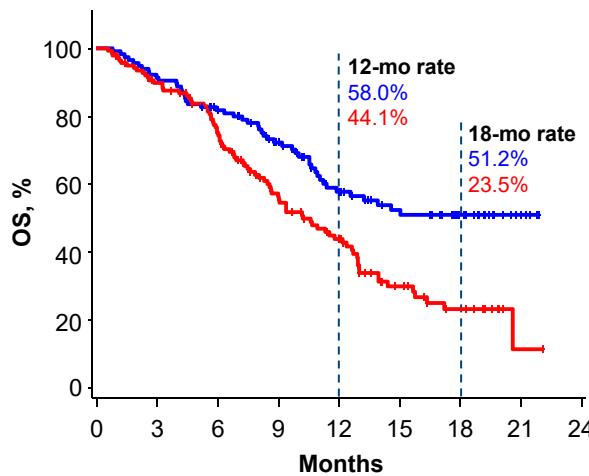
No. at risk	Cadonilimab+XELOX										Placebo+XELOX										
	305	283	234	186	136	103	70	15	0		305	263	212	147	95	59	40	4	0		

PD-L1 CPS≥5

	Cadonilimab+XELOX N=116	Placebo+XELOX N=140
Median, mo	NR [#] (95% CI)	10.6 (8.6, 12.6)
HR (95% CI)	0.56 (0.39-0.80)	

P value

<0.001



No. at risk	Cadonilimab+XELOX										Placebo+XELOX										
	116	106	90	72	49	37	21	5	0		140	121	96	63	42	21	11	1	0		

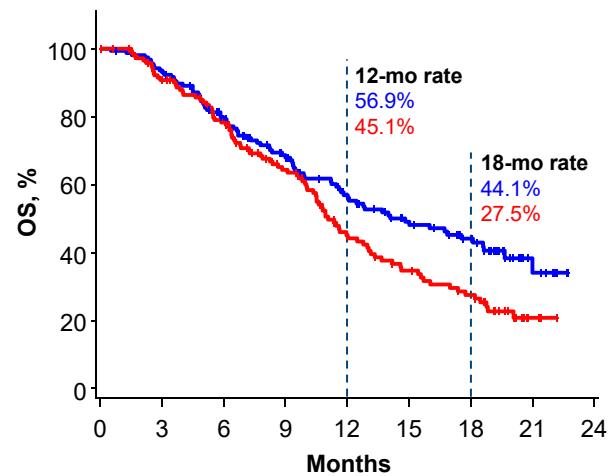
NR = not reached * NE = not estimable

PD-L1 CPS<5

	Cadonilimab+XELOX N=157	Placebo+XELOX N=147
Median, mo	14.8 (95% CI)	11.1 (10.1, 13.0)
HR (95% CI)	0.70 (0.51-0.95)	

P value

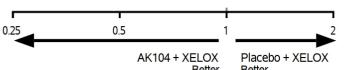
0.011



No. at risk	Cadonilimab+XELOX										Placebo+XELOX										
	157	146	116	93	69	52	39	8	0		147	127	106	78	49	35	26	3	0		

Overall Survival in Subgroups

Subgroup	AK104 + XELOX No. Events/ No. Participants (n/N)	Placebo + XELOX No. Events/ No. Participants (n/N)	Hazard Ratio (95%CI)	Hazard Ratio (95%CI)	Subgroup	AK104 + XELOX No. Events/ No. Participants (n/N)	Placebo + XELOX No. Events/ No. Participants (n/N)	Hazard Ratio (95%CI)	Hazard Ratio (95%CI)
Overall	150/305	191/305		0.62 (0.50, 0.78)	Liver Metastases				
Age					No	82/161	100/162		0.75 (0.56, 1.01)
<65 years	92/170	111/164		0.62 (0.47, 0.82)	Yes	68/144	91/143		0.50 (0.37, 0.69)
≥65 years	58/135	80/141		0.61 (0.43, 0.85)	PD-L1 CPS at Baseline (22C3)				
Sex					≥1	88/201	134/219		0.58 (0.44, 0.75)
Male	114/239	146/235		0.58 (0.45, 0.74)	<1	42/72	44/68		0.77 (0.51, 1.18)
Female	36/66	45/70		0.81 (0.52, 1.26)	≥5	49/116	85/140		0.54 (0.38, 0.77)
ECOG PS					<5	81/157	93/147		0.71 (0.52, 0.95)
0	35/70	43/72		0.69 (0.44, 1.09)	≥10	30/72	51/81		0.51 (0.32, 0.79)
1	115/235	148/233		0.60 (0.47, 0.77)	<10	100/201	127/206		0.68 (0.52, 0.88)
Primary Tumor Location					1-4	39/85	49/79		0.64 (0.42, 0.98)
GEJ	29/63	43/74		0.59 (0.37, 0.95)	1-9	58/129	83/138		0.62 (0.44, 0.87)
Stomach	121/242	148/231		0.62 (0.49, 0.79)					
Metastatic Disease									
No	6/12	12/18		0.43 (0.16, 1.17)					
Yes	144/293	179/287		0.63 (0.51, 0.79)					

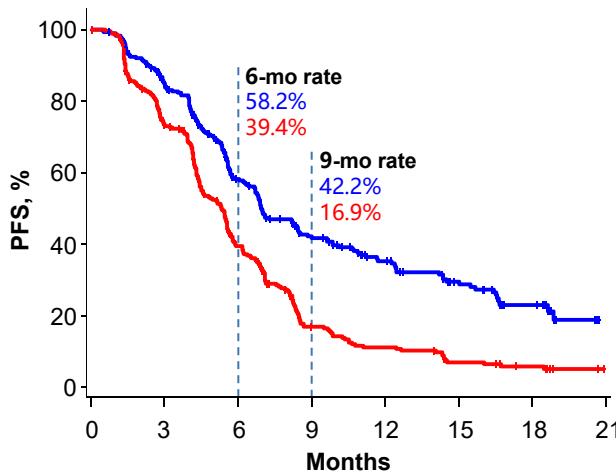


0.25 0.5 1 2

Progression-Free Survival

ITT Population

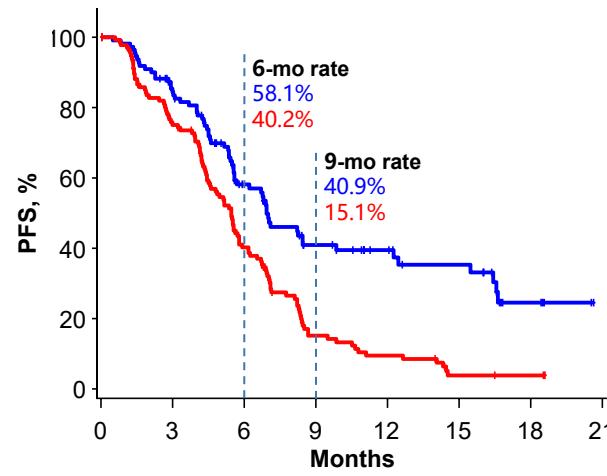
	Cadonilimab+XELOX N=305	Placebo+XELOX N=305
Median, mo	7.0	5.3
(95% CI)	(6.4, 8.4)	(4.5, 5.6)
HR (95% CI)	0.53 (0.44-0.65)	
P value	<0.001	



No. at risk		Cadonilimab+XELOX									Placebo+XELOX								
305	232	137	85	59	40	20	0	105	38	25	14	8	0	140	97	50	16	10	3
																			0

PD-L1 CPS≥5

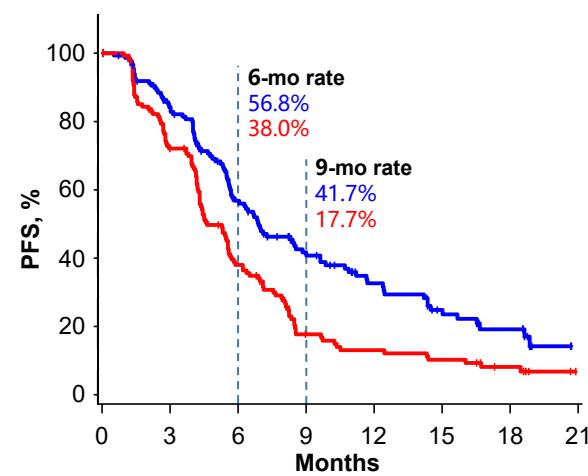
	Cadonilimab+XELOX N=116	Placebo+XELOX N=140
Median, mo	6.9	5.5
(95% CI)	(5.6, 9.9)	(4.5, 5.8)



No. at risk									
116	89	50	29	21	16	10	3	2	0
140	97	50	16	10	3	2	0	0	0

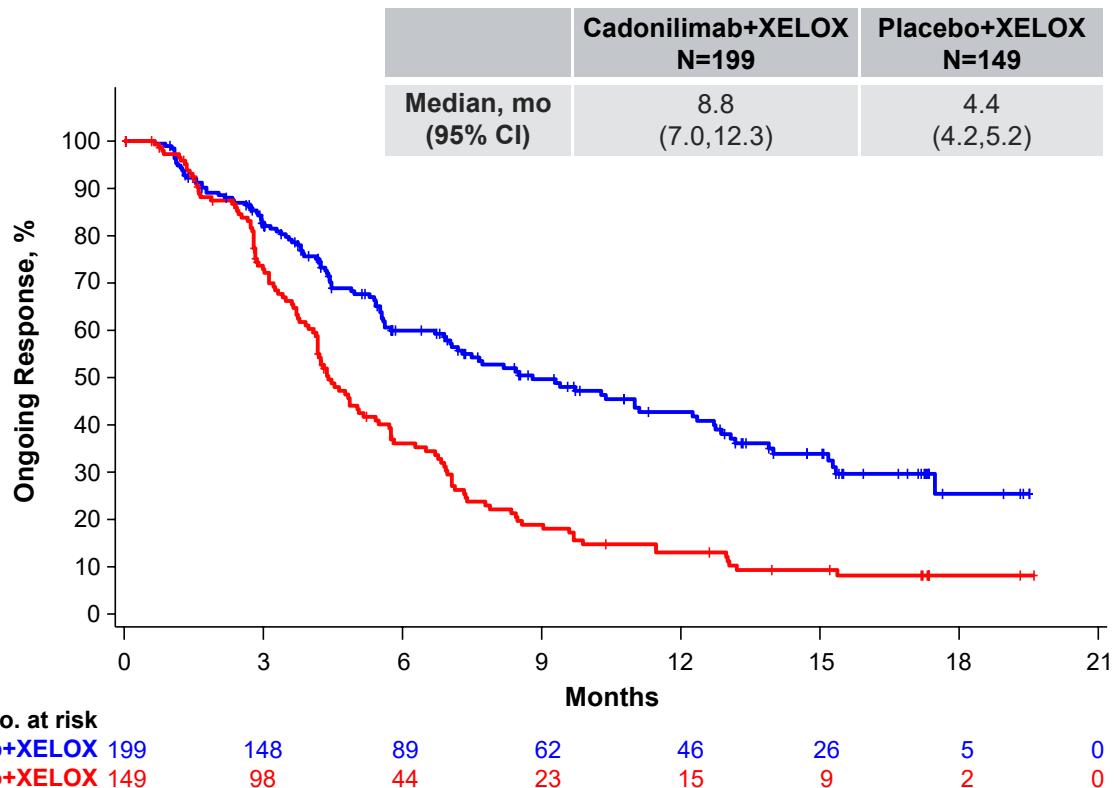
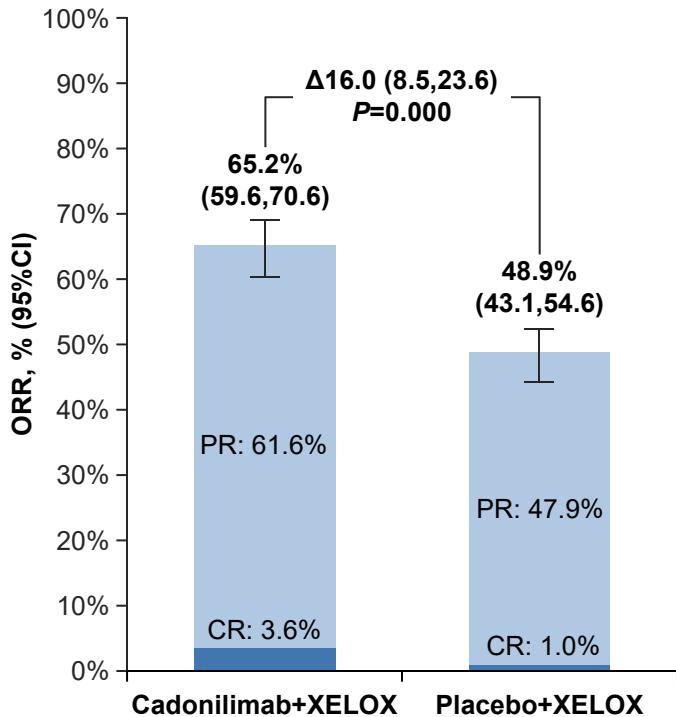
PD-L1 CPS<5

	Cadonilimab+XELOX N=157	Placebo+XELOX N=147
Median, mo	6.9	4.6
(95% CI)	(5.7, 9.0)	(4.3, 5.6)



No. at risk									
157	119	71	45	30	19	11	6	0	0
147	98	48	19	14	11	6	0	0	0

Response and Duration of Response



Safety Overview

Patients, n (%)	Cadonilimab+XELOX N=305		Placebo+XELOX N=304	
	Any grade	≥ Grade 3	Any grade	≥ Grade 3
TRAEs	302 (99.0)	201 (65.9)	296 (97.4)	163 (53.6)
TRSAEs	117 (38.4)	93 (30.5)	78 (25.7)	66 (21.7)
TRAEs Leading to Discontinuation*	73 (23.9)	47 (15.4)	20 (6.6)	16 (5.3)
AK104/Placebo-related Infusion-related Reactions (IRRs)	67 (22.0)	11 (3.6)	8 (2.6)	0
IRRs leading to AK104/Placebo discontinuation	9 (3.0)	5 (1.6)	0	0
Treatment-related deaths	5 (1.6)		7 (2.3)	
AK104/Placebo-related deaths	5 (1.6) ^a		5 (1.6) ^b	

TRAEs: treatment-related adverse events are defined as "Definitely Related" "Probably Related", or "Possibly Related" to cadonilimab/placebo, at least one chemotherapy component, or both;

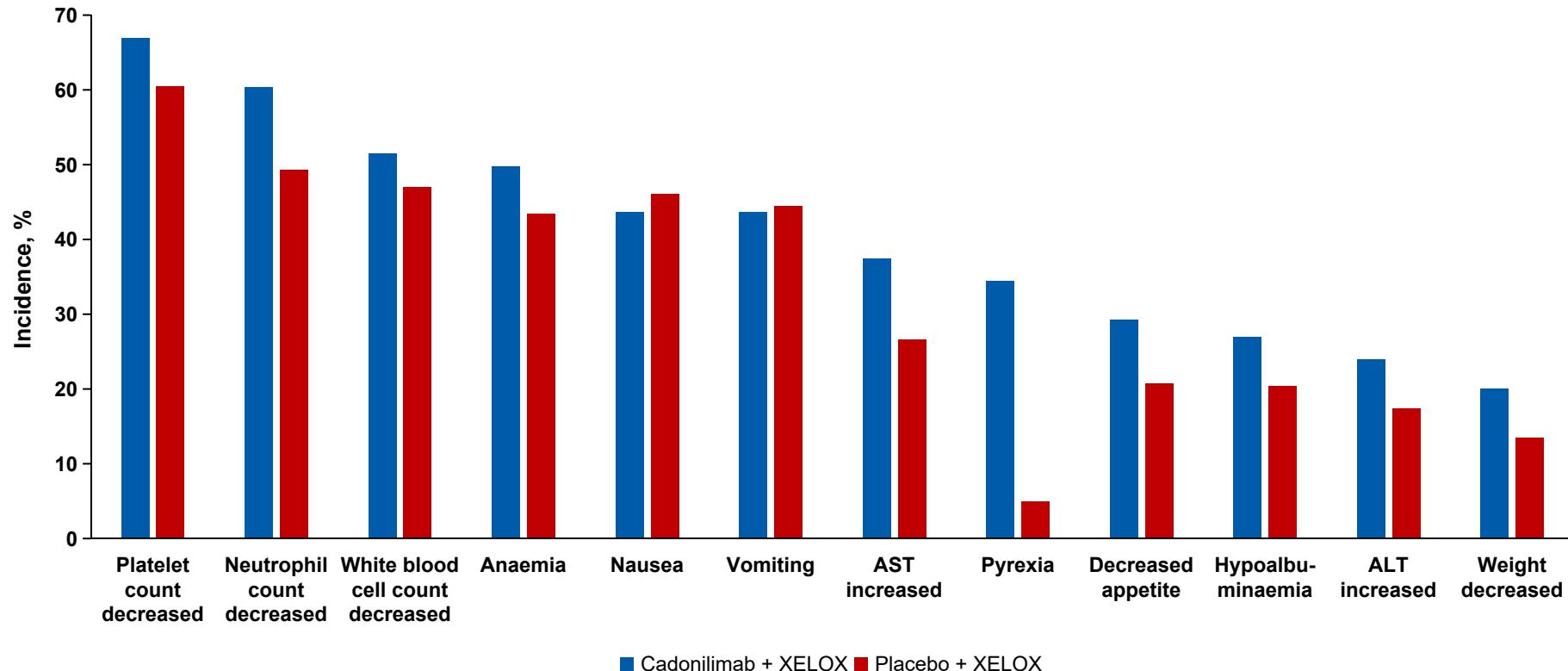
TRSAEs: treatment-related severe adverse events;

^a 2 participants due to death (cause unknown), 1 participant due to immune-mediated lung disease, respiratory failure, and cardiac failure, 1 participant due to acute kidney injury, hyperkalemia, and cardiac failure, 1 participant due to platelet count decreased.

^b 1 participant each due to cerebral hemorrhage, disease progression, immune thrombocytopenia, respiratory failure, and upper gastrointestinal hemorrhage.

*: TRAEs leading to any drugs including chemotherapy and cadonilimab to discontinuation.

Treatment-Related Adverse Events in ≥20% of patients



Summary and Conclusion

- Cadonilimab is the first PD-1/CTLA-4 bispecific antibody to demonstrate statistically significant and clinically meaningful OS benefit in combination with chemo versus chemo alone in previously untreated patients with advanced G/GEJ adenocarcinoma.
 - Median OS: 15.0 vs 10.8 months; HR 0.62 [95%CI: 0.50-0.78]; P<0.001
 - OS benefits were consistently observed at all pre-specified CPS cutoffs
 - CPS≥5: mOS NR vs 10.6 months; HR 0.56 [95%CI: 0.39-0.80]; P<0.001
 - CPS<5: mOS 14.8 vs 11.1 months; HR 0.70 [95%CI: 0.51-0.95]; P=0.011
- The OS benefit of Cadonilimab plus chemotherapy was accompanied by improvements in PFS, ORR, and DoR compared with chemotherapy alone.
- Cadonilimab showed a survival advantage in GC patients with low PD-L1 expression, which has not been shown in other phase 3 trials with PD-1 antibodies.
- No new safety signals were identified with Cadonilimab + chemo.
- **Cadonilimab + chemo represents a new potential standard 1L treatment for patients with advanced G/GEJ adenocarcinoma, especially in patients with low PD-L1 expression.**

Acknowledgments

- The patients and families who made this study possible
- The investigators and clinical study teams who participated in the study
- The study was supported by Akeso, Inc.
- All authors contributed to and approved the presentation