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Efficacy and Safety of Cadonilimab Plus Pulocimab in NSCLC Patients who Progressed Following Prior Immunotherapy: A Phase 1b/2 Study (AK109-102)

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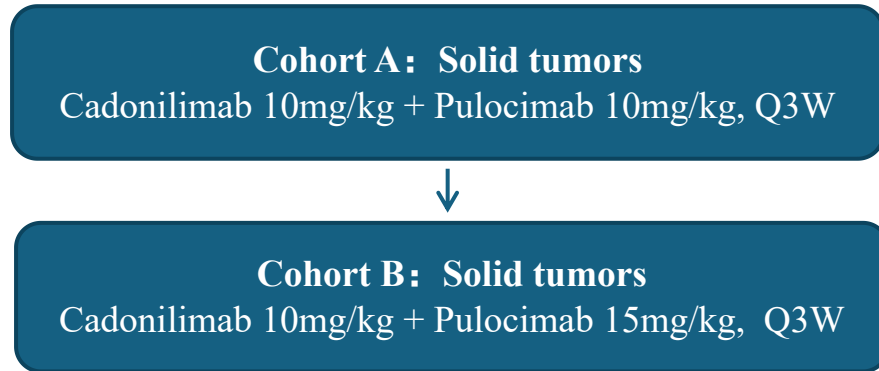
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Background

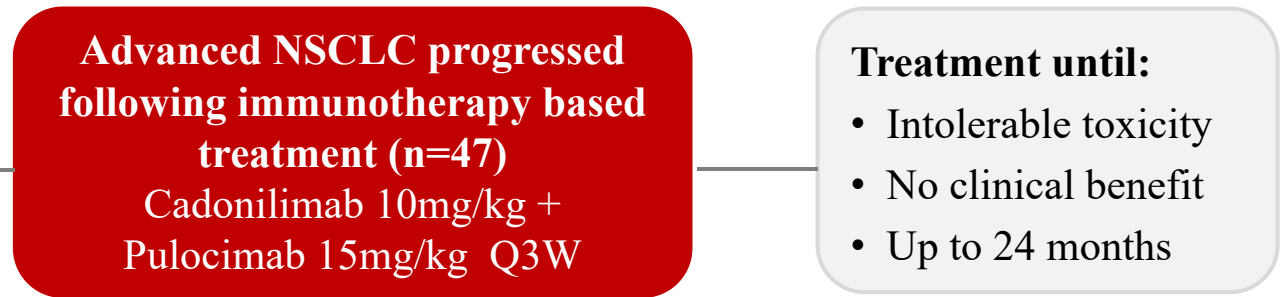
- PD-(L)1 inhibitors, alone or combined with chemotherapy, are the standard first-line treatment for advanced NSCLC. However, treatment options for patients who progress after first-line immunotherapy-based regimens remain limited, with no established global standard in the second-line setting
- Cadonilimab (AK104) is a PD-1/CTLA-4 bispecific antibody approved by the NMPA for multiple indications, including first- and later-line treatment of cervical cancer and first-line treatment of gastric/gastroesophageal junction (G/GEJ) adenocarcinoma
- Pulocimab (AK109) is a fully human monoclonal antibody targeting VEGFR2
- The combination of cadonilimab and pulocimab has shown promising efficacy in patients with G/GEJ adenocarcinoma who progressed after immunochemotherapy, a phase III trial is ongoing (NCT06341335)
- This presentation highlights the safety and efficacy of cadonilimab plus pulocimab in NSCLC patients who have progressed following first-line immunotherapy-based SOC (phase Ib/II, NCT05142423)

Study Design

Safety Run-in Stage



Expansion Stage



Key inclusion criteria of NSCLC in expansion stage

- Histologically or cytologically confirmed NSCLC
- ECOG PS 0-1
- Progression after anti-PD-(L)1-containing therapy
- No sensitizing EGFR or ALK alterations

Primary endpoints	Secondary endpoints
<ul style="list-style-type: none">• Safety• ORR per RECIST 1.1	<ul style="list-style-type: none">• PFS per RECIST 1.1• DCR per RECIST 1.1• DoR• OS

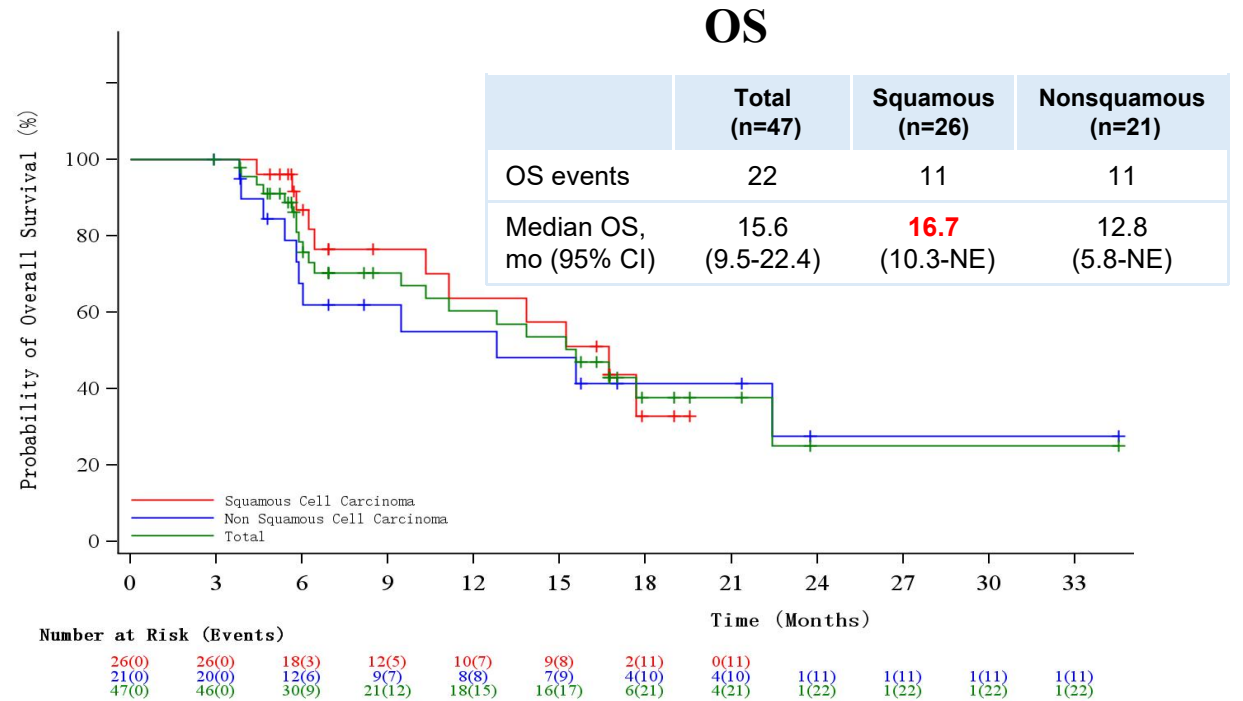
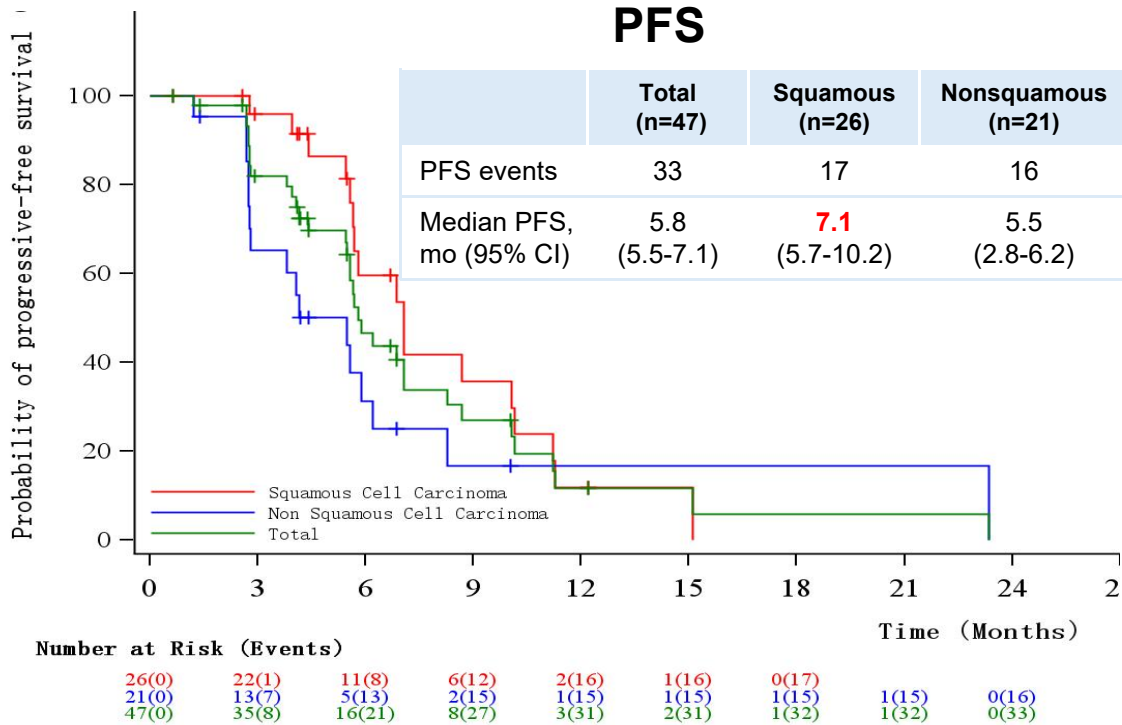
As of January 13, 2025, 47 NSCLC patients who had progressed on first-line immunotherapy-based SOC treatment were enrolled, with a median follow-up of 16.7 months (range: 8.1-19.0)

Baseline Characteristics

Baseline Characteristics (n%)	Total (n=47)	Squamous NSCLC (n=26)	Nonsquamous NSCLC (n=21)
Age, year			
Median age (min, max)	60.0 (48, 75)	60.0 (48, 70)	65.0 (49, 75)
≥65	32 (40.4)	8 (30.8)	11 (52.4)
Gender			
Male	38 (80.9)	23 (88.5)	15 (71.4)
Female	9 (19.1)	3 (11.5)	6 (28.6)
ECOG PS			
0	12 (25.5)	5 (19.2)	7 (33.3)
1	35 (74.5)	21 (80.8)	14 (66.7)
Resistance Type			
Primary resistance	19 (40.4)	9 (34.6)	10 (47.6)
Secondary resistance	28 (59.6)	17 (65.4)	11 (52.4)
Prior anti-PD-1/PD-L1 efficacy			
Responder	15 (31.9)	13 (50.0)	2 (9.5)
Non-responder	21 (44.7)	11 (42.3)	10 (47.6)
unknown	10 (21.3)	2 (7.7)	8 (38.1)
PD-L1 TPS			
< 1%	20 (42.6)	9 (34.6)	11 (52.4)
≥1%	14 (29.8)	9 (34.6)	5 (23.8)

Efficacy

	Squamous NSCLC (n=26)	Nonsquamous NSCLC (n=21)
ORR, %	11.5	14.3
DCR, %	96.2	95.2



Safety Summary

- Cadonilimab in combination with Pulocimab demonstrated a favorable safety profile

AE, n (%)	Total (n=47)	Squamous NSCLC (n=26)	Nonsquamous NSCLC (n=21)
TRAE	44 (93.6)	25 (96.2)	19 (90.5)
≥G3 TRAE	10 (21.3)	7 (26.9)	3 (14.3)
Serious TRAE	11 (23.4)	7 (26.9)	4 (19.0)
TRAE leading to discontinuation of study drug	2 (4.3)	1 (3.8)	1 (4.8)
irAE	9 (19.1)	6 (23.1)	3 (14.3)
≥G3 irAE	3 (6.4)	2 (7.7)	1 (4.8)

- No dose-limiting toxicities (DLTs) observed in the safety run-in phase
- NSCLC cohort in expansion stage
 - The most common TRAEs (any grade): aspartate aminotransferase increased (25.5%), hypothyroidism (25.5%), proteinuria (25.5%), platelet count decreased (21.3%) and anaemia (21.3%)
 - Grade ≥3 TRAEs: hypertension (4.3%) was the only event occurring in ≥2 patients
- No new safety signals were identified

Conclusions

- Cadonilimab in combination with Pulocimab demonstrated a promising efficacy in advanced or metastatic NSCLC patients who progressed following first-line immunotherapy-based standard of care
- This chemotherapy-free combination offers a compelling and novel approach to address resistance to anti-PD-(L)1 therapy, with notable efficacy and a favorable safety profile
- These findings support further clinical development of the Cadonilimab and Pulocimab combination in this setting, and a phase III study is planned



Thank You



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