

The 13th Asia-Pacific Primary Liver Cancer Expert Meeting

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广西医科大学第一附属医院 THE FIRST AFFILIATED HOSPITAL OF GUANGXI MEDICAL UNIVERSITY

A single-center prospective randomized controlled clinical study of the safety and efficacy of cadonilimab versus cadonilimab combined with transhepatic arterial perfusion chemotherapy (HAIC) for neoadjuvant therapy with sequential resection in patients with CNLC I b/IIa multinodular hepatocellular carcinoma (CAR_Hero)

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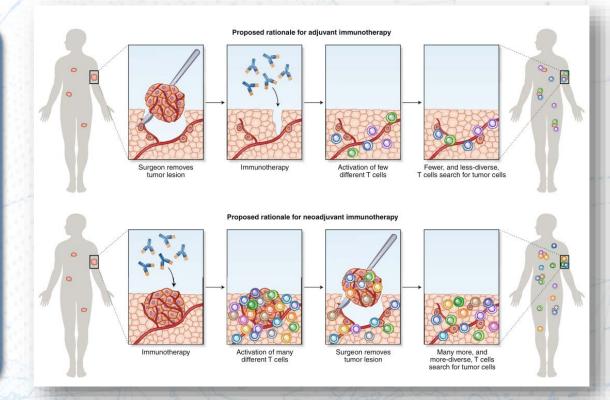
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Background and Aims

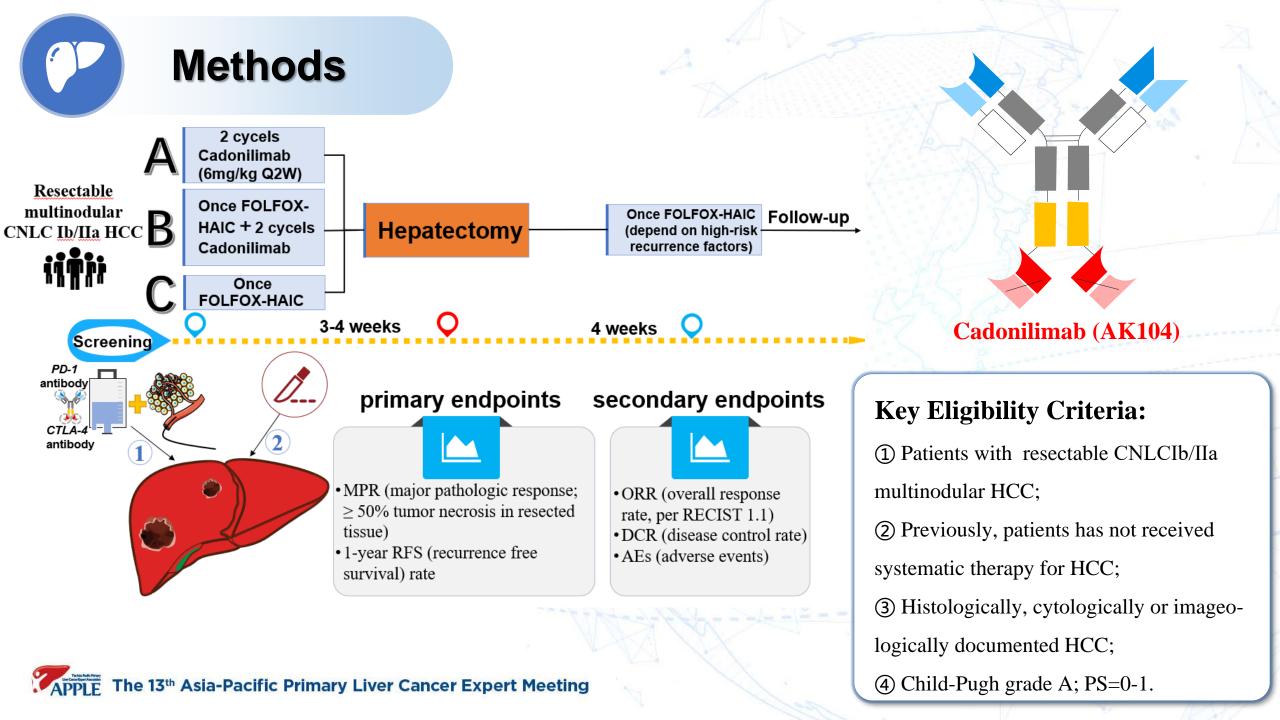
- The recurrence rate of hepatocellular carcinoma (HCC) is high after surgery. However, there are no approved standard-of-care neoadjuvant or adjuvant therapies.
- Progress has been made in a number of neoadjuvant therapies for HCC¹.
- Cadonilimab is a first-in-class bispecific, humanized IgG1 anti body targeting PD-1 and CTLA-4, which has potential antitumor activity in HCC².
- HAIC plus immunotherapy has synergistic antitumor effect ³.



• This trial is to evaluate the safety and efficacy of cadonilimab plus FOLFOX-HAIC as a

neoadjuvant management for the resectable multinodular CNLC Ib/IIa HCC.

Oh DY, et al. NEJM Evidence. 2022;1(8). doi:10.1056/EVIDoa2200015.
Xu Q, et.al. J Clin Oncol. 2022; 40(16). doi: 10.1200/JCO.21.02091.
2021 ASCO abs#e16146
Picture source: NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

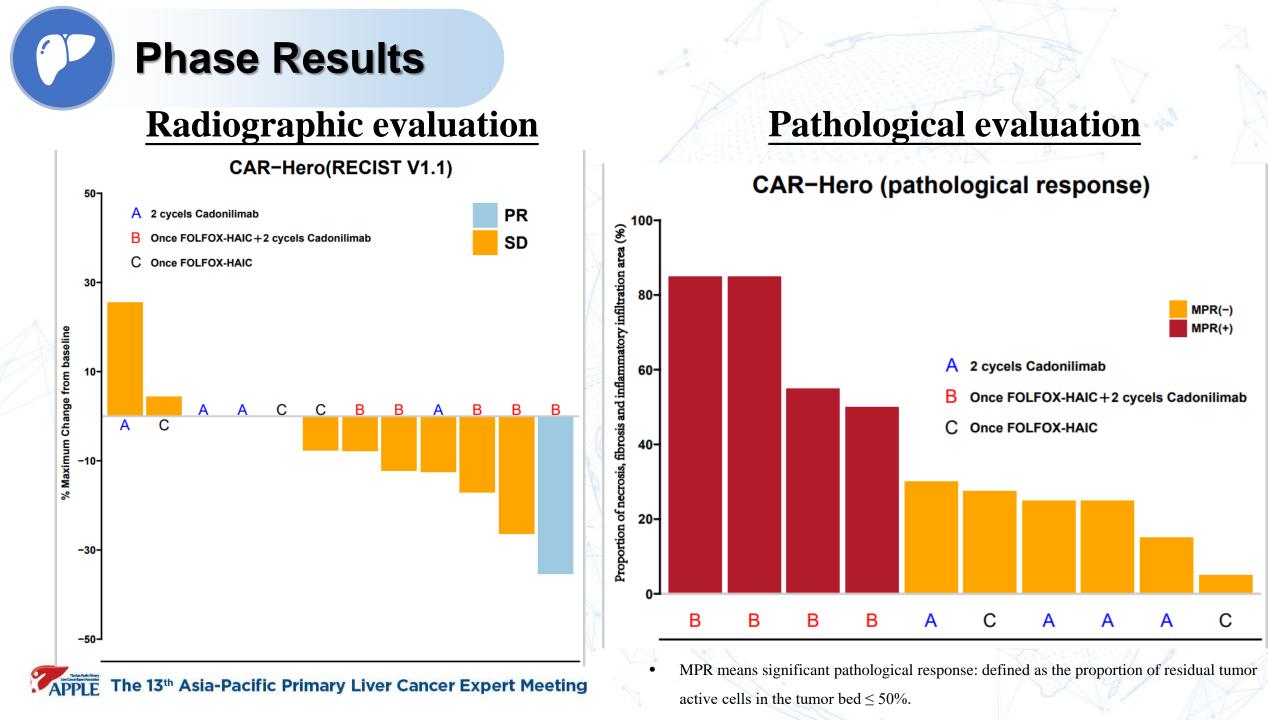




Characteris	tic (N=12)	No. of pa tients	%	
Age(years)	Median(range)	63(51-71)	/	
Gender	Male	16	100	
ECOG PS	0	16	100	
HBV	infection	13	81.5	
	CNLC I b	6	37.5	2
Tumor stage	CNLC Па	10	62.5	4
ВМІ	Median(range)	22.5(21.3- 24.5)	/	1
Greatest tumor diameter	≥ 5 cm	5	31.3	7
PIVKA-II(mAU/ ml)	positive	13	81.5	
AFP (ng/ml)	positive	12	75	
	≥ 400 ng/ml	6	37.5	

Table 2. The response outcomes of patients.

Table 1. Patier	esults hts baseline charac	teristics.		NO.	Group	RECIST v1.1	Living tissue		is and inflammatory nfiltration area	MVI	Ishak grade
No of pa		1	А	SD	70%+80%	30%	30%+20%		G1S4		
Characteris	$\operatorname{Stic}^{-}(\mathbf{N}=12)^{-}$	tients	%	2	В	SD	0%+100%	100%+0%		MO	G2S3
Age(years)	Median(range)	63(51-71)	/	3	A	SD	60%+90%	0%	40%+10%	MO	G1-2S4
Gender	Male	16	100	4		SD	85%+60%	0%	15%+40%	M0+ <mark>M1</mark>	G1S4
ECOG PS	0	16	100		С						
HBV	infection	13	81.5	5	В	PR+SD	0%+90%	100%+0%	0%+10%	MO	G2S4
Tumor stage	CNLC I b	6	37.5	6	A	SD	60%+80%	40%	+20%	M1+M0	G2S4
	CNLC Па	a 10	62.5	7	В	PR+SD	0%+30%	100%+0%	0%+70%	MO	
				8	А	SD	80%+90%	0%	20%+10%	M1+M0	G2S4
BMI	Median(range)	22.5(21.3- 24.5)	/	9	С	SD	90%	0%	10%	MO	24- 3 A
Greatest tumor diameter	≥ 5 cm	5	31.3	10	С	SD		Drop out		= + - \-/+ f= -	
PIVKA-II(mAU/ ml)	positive	13	81.5	11	В	PR+SD	0%+30%	100%+70% M1 G1S		G1S4	
	positive	12	75	12	В	PR+SD	Possible pCR; AFP and PIVKA-II decreased to normal range				range
AFP (ng/ml)	≥ 400 ng/ml			13			neoadjuvant therapy phase				
	6	37.5	- 16	В	B					1 - J	
APPLE Th	e 13 th Asia-Pac	ific Prima	ry Liver C	Cancer	Expert	Meeting	• Imaging ev	valuation of individual	lesions was based on RI	CIST v1.1 criteria.	NY
							• The conter	nt before and after "+" i	indicates the results of d	ifferent lesions.	1 St





Safety evaluation

- The main common Treatment Related Adverse Events (TRAEs) in the neoadjuvant phase were list in Table 3. No grade 3 or worse TEAEs occurred and delayed surgery.
- No additional postoperative complications were significantly associated with preoperative neoadjuvant therapy.
- The most common surgical complications were ALT and AST increase (100%), bilirubin increase (60%), serum amylase increase (40%) and significant pleural effusion (20%).

Table 3. TRAEs in the preoperative phase.

group	TRAE (grade)	n (%)
A (n=4)	Bilirubin increase (1)	1 (33.4)
	Triiodothyronine decrease (1)	1 (33.4)
B (n=9)	ALT, AST increase (1-2)	7 (77.8)
	Bilirubin increase (1)	4 (23.1)
	asthenia (1)	3 (44.5)
	proteinuria (2)	1 (11.1) ^b
C (n=3)	ALT, AST increase (1)	2 (66.7)
	Bilirubin increase (1)	1 (33.4)

^b This patient has type 2 diabetes mellitus and his blood glucose control is mediocre.

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This study preliminarily demonstrated that neoadjuvant cadonilimab plus HAIC show promising antitumor activity with manageable safety for HCC. This trail is ongoing.

Acknowledgement and Disclosure

The authors thank all of the participating pts and their families, as well as the investigators, study coordinators and the whole project team. The authors acknowledge to Akeso Biopharma Ltd. for their drugs supports. Conflict of interest: None.