Supplementary Table 1. Summary of ongoing clinical studies about neoadjuvant therapy in hepatocellular carcinoma

NCT	Treatment arms	Conditions	Primary outcome	Secondary outcome	Phase
number	Treatment arms	Conditions	measures	measures	rnase
NCT04961	TACE	Resectable	1 man DEC	1-year OS R0 resection	NI A
138	TACE	HCC	1-year DFS	rate ORR	NA
NCT04777	TACELLAIC	Resectable	PFS	OS	NT A
942	TACE-HAIC	HCC	rrs	O5	NA
NCT04424	TACELLAIC	Resectable	DEC	OS	NT A
043	TACE-HAIC	HCC	PFS	O5	NA
NICT0/101		Resectable			
NCT04181 931	TACE-HAIC	HCC with	PFS	OS	NA
931		PVTT			
NCT04025		Resectable			PHASE
	RT	HCC with	OS	RFS	
437		PVTT			II PHASE III
NCT05598	SBRT	Resectable	AEs	RFS PFS OS Time to	PHASE I

060		HCC		Progress Quality of life	
				Intraoperative number of	
				packed red blood	
				cells Toxicity of radiation	
NICTO/E07		D . 11		therapy Duration of	
739	NCT04587 SBRT	Resectable HCC	Drop-out rate	surgery Volume of	PHASE I
739		псс		intraoperative blood	
				loss Quality of life AEs Postoperative	
				mortality rate OS DFS	
			operation time,		
NCT06571	ICI-	Resectable	transfusion,	DEC LOC	OBSERVATIO
396	ICIs	HCC	postoperative hospital	PFS OS	NAL
			stay, and complication.		
NCT06405	HAIC/TACE/TKIs/ICI	Resectable	1 OC	1 was DEC	OBSERVATIO
321	s/RT	HCC	1-year OS	1-year PFS	NAL

				RFS OS Operation	
				time blood loss and	
NCT05471	Nivolumab	Resectable	pCR	transfusion requirement	PHASE II
674	Nivolulliab	HCC	per	during	THASEII
				surgery complication	
				rate AEs	
NCT03337	Pembrolizumab	Resectable	1-year RFS rate	RFS OS ORR Tumor	PHASE II
841	rembronzumab	HCC	1-year Kr3 rate	markers AEs	гпа з е п
NCT05807	Tislelizumab or	Resectable		1-year and 2-year	
776	combined with	HCC	MPR	DFS Surgery delay	PHASE II
770	Lenvatinib	TICC		rate MVI rate mOS AEs	
	HAIC or Lenvatinib			MVI	
NCT05621	combined with	Resectable	1-year DFS rate	rate pCR ORR 2-year	NA
499	Sintilimab	HCC	1-year Dr5 rate	DFS rate 2-year OS	INA
	Sintillinab			rate AEs	
NCT05440	Durvalumab and	Resectable	AEs	AEs ORR pCR rates of	PHASE II

864	Tremelimumab in Resectable HCC	НСС		R0 resection	
NCT05389 527	Pembrolizumab and Lenvatinib	Resectable HCC	MPR	pCR ORR R0 resection rate DFS 1-year DFS rate Overall survival AEs	PHASE II
NCT04954 339	Aatezolizumab plus Bevacizumab	Resectable HCC	pCR Immunophenotype s and dynamic changes of tumor-infiltrating immune cells	R0 resection rate PFS RFS Characteriz ation of immunologic and genomic features Dynamic changes in T-cell receptor	PHASE II
NCT04123 379	Nivolumab with CCR2/5-inhibitor/Anti -IL-8	Non-small Cell Lung Cancer Resect able HCC	MPR	Time to Surgery AEs Radiographi c response rate PFS OS	PHASE II
NCT04930 315	SHR-1210 combined with Apatinib	Resectable HCC	1-year RFS rate	OS 1-year OS rate R0 resection	PHASE II

				rate MPR pCR Surgical	
				resection rate AEs	
NCT04888	TQB2450 combined	Resectable	nCD ODD	PFS OS AEs	PHASE
546	with Anlotinib	HCC	pCR ORR	rr5 O5 AES	I PHASE II
NCT03867	Toripalimab in	Resectable		ORR R0 resection	PHASE
370	combination with	HCC	pCR	rate Time to	I PHASE II
370	Lenvatinib	TICC		operation PFS AEs	I I I I I A SE II
NCT03510	Nivolumab plus	Resectable	MPR		PHASE II
871	Ipilimumab	HCC	WII K		THASEII
				pCR RFS EFS OS 2-year	
	Atezolizumab and			OS rate 3-year OS	
NCT05908	Bevacizumab/	Resectable		rate ORR Downstaged	PHASE
786	·		MPR	rate R0 Resection	
700	Tiragolumab and	HCC		rate AEs Surgical	I PHASE II
	Tobemstomig			Complication	
				rates Post-Operative	

Mortality

NCT04521 153	Camrelizumab combined with Apatinib	Resectable HCC	EFS MPR	OS DFS R0 resection rate pCR	PHASE II PHASE III
NCT04615 143	Tislelizumab or Tislelizumab combined with Lenvatinib	Resectable HCC	DFS	ORR AEs MPR rate	PHASE II
NCT06524 466	SBRT Combined with Lenvatinib and Pucotenlimab	Resectable HCC with PVTT	ORR CR	PFS OS AEs perioperativ e complication rate pCR	PHASE II
NCT06512 467	Donafenib combine with Sintilimab and HAIC	Resectable HCC	MPR	ORR DCR RFS OS R0 resection pCR	PHASE II
NCT05171 166	HAIC/TACE plus Donafenib	Resectable HCC	PFS	OS Time To Progression ORR DCR A Es	PHASE II PHASE III

NCT05	578 Cadonilimab	Resectable	MPR rate	1-year recurrence	PHASE II
430	combining with TACE	HCC	WII K Tate	rate ORR IAEs	THASEII
NCT04	850 Tislelizumab combined	Resectable		R0 resection	
157	with IMRT	HCC with	RFS	rate ORR OS AEs	PHASE II
137	WILLIMIKT	PVTT		Tate OKK OS AES	
NCT06	664 Sintilimab combined	Resectable			
996	SBRT	HCC with	1-year DFS rate		PHASE II
996 SDK1	PVTT				
NCT06	467 HAIC and PD-1 plus	Resectable	RFS	ORR pCR OS perioperati	PHASE II
799	Adjuvant PD-1	HCC	KF5	ve complication rate AEs	FIIASEII
NCT05	185	Resectable	Delay to		
531	Tislelizumab with SBRT		surgery ORR pCR MP	DFS OS	PHASE I
551		TICC	R AEs		
NCT06	HAIC combination	Resectable		MPR DCR R0 resection	
061	with Adebrelimab and	HCC	ORR		PHASE II
001	Bevacizumab	TICC		rate pCR EFS OS	

NCT06349 317	IMRT combined with Camrelizumab and Apatinib	Resectable HCC with PVTT	1-year EFS rate	EFS OS DFS R0 resection rate ORR	PHASE II
NCT06003 673	Tislelizumab combined with TACE and Lenvatinib	Resectable HCC	RFS	ORR pCR MPR R0 Resection rate OS	PHASE IV
NCT05920 863	Lenvatinib combined with Tislelizumab and TACE	Resectable HCC	MPR	pCR R0 resection rate ORR DCR AEs RFS	PHASE II
NCT05701 488	SIRT with Tremelimumab and Durvalumab	Resectable HCC	AEs	pCR mOS mPFS CD8+/ CD4+T Cells Level Dendritic Cells Level Cytokines Level Number of Participants with Surgical Complications	PHASE I

NCT05613 478	Camrelizumab combined with Apatinib and TACE	Resectable HCC	RFS	R0 resection rate MPR pCR OS EFS 1-year RFS AEs	PHASE III
NCT05250 843	TACE/HAIC combined with Lenvatinib and Sintilimab	Resectable HCC	RFS	AEs	PHASE II PHASE III
NCT04857	SBRT + Atezolizumab +	Resectable	AEs	ORR R0 resection	EARLY PHASE
684	Bevacizumab	HCC	ALS	rate CR OS RFS	I
	Camrelizumab in			ORR 1-year RFS	
NCT04850	Combination with	Resectable	MPR	rate DFS Intraoperative	PHASE II
040	Apatinib and	HCC	IVII IX	and postoperative	THASEII
	Oxaliplatin			complications	
	TACE Combined with		MPR		
NCT06569	TACE Combined with	Resectable	rate AEs Operative	RFS ORR R0 resection	OBSERVATIO
498	Lenvatinib plus	HCC	mortality Operative	rate OS	NAL
	Cadonilimab		complications		

| Reoperation rate

NCT06538	SBRT Combined with	Rosostabla	Resectable						
935	Adbelimumab and	HCC	pCR ORR	EFS MPR AEs	PHASE II				
933	Apatinib	TICC							

NCT: National Clinical Trials; TACE transcatheter arterial chemoembolization; HAIC: hepatic artery infusion chemotherapy; RT: radiotherapy; SBRT: stereotactic body radiotherapy; HCC: hepatocellular carcinoma; PVTT: portal vein tumor thrombus; OS: overall survival; PFS: progression free survival; AEs: adverse events; DFS: disease-free survival; ORR: objective response rate; MPR: major patho-logical response; pCR: pathological complete response; RFS: recurrence free survival; DCR: disease con-trol rate; MVI: microvascular invasion; ICIs: immune checkpoint inhibitors; EFS: Event-Free Survival; NA, not available



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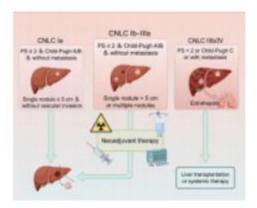
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