Supplemental Table 1 Baseline patient characteristics				No. of tumors			0.02	
CI	TACE+131I-metuximab	TACE	D 1	Single	20 (13%)	30 (19%)		
Characteristics	(n = 160)	(n = 160)	P value	Multiple	132 (83%)	129 (81%)		
Age, years			0.18	Diffuse	8 (5%)	1 (1%)		
Median	57	58		ALT, μ/L			0.34	
IQR	47.3-64.0	49.3-65.8		Median	30	29		
Gender			0.86	IQR	23.0-58.0	28.0–94.5		
Male	141 (88%)	142 (89%)		AST, μ/L			0.85	
Female	19 (12%)	18 (11%)		Median	41	41		
Cause of disease			0.08	IQR	28.0-77.5	36.0-108.0		
Hepatitis B only	133 (83%)	129 (81%)		TBIL, μmol/L			0.76	
Hepatitis C only	13 (8%)	10 (6%)		Median	17.8	16.9		
Hepatitis B and C	3 (4%)	0		IQR	12.4–23.4	14.9–32.8		
Unknown	11 (7%)	21 (13%)		ALB, g/L			0.85	
Hepatic cirrhosis			0.36	Median	41.9	41.5		
Yes	146 (91%)	141 (88%)		IQR	36.9–45.1	33.5–40.1		
No	14 (9%)	19 (12%)		Macroscopic vascular invasi	on		0.19	
Child-Pugh class			0.07	Yes	48 (30%)	59 (37%)		
A	138 (86%)	148 (96%)		No	112 (70%)	101 (63%)		
В	22 (14%)	12 (8%)		Extrahepatic spread			0.43	
BCLC stage			0.19	Yes	35 (22%)	41 (26%)		
В	60 (38%)	49 (31%)		No	125 (78%)	119 (74%)		
C	100 (63%)	111 (69%)		Previous therapy*				
ECOG performance status			< 0.001	No	13 (8%)	24 (15%)	0.05	
0	86 (54%)	120 (75%)		Surgical resection	47 (29%)	34 (21%)	0.10	
1	66 (41%)	40 (25%)		Chemotherapy	13 (8%)	22 (14%)	0.11	
2	8 (5%)	0		Interventional	143 (89%)	136 (85%)	0.24	
Size of main tumor (cm)			0.46	Data are n (%) or Median (In	terquartile Range). *Patient	s may have received mor	e than one	
Median	4.2	4.3		type of therapy. ALB = alb	umin; ALT = alanine tran	saminase; AST = aspart	ate amino	
IQR	2.9–7.9	3.0-7.0		transferase; BCLC = Barcel	ona Clinic Liver Cancer	staging system; ECOG	= Eastern	
Size range of tumor			0.73	Cooperative Oncology Group; IQR = interquartile range; TBIL = total bilirubin. Comparisons				
≤ 5 cm	92 (58%)	95 (59%)		between two groups were performed using the <i>t</i> test for continuous data and the chi-square test				
> 5 cm	68 (43%)	65 (41%)		for categorical data.				

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Supplemental Table 2 Types of previous interventional therapy

Town Countries in the 1d and	TACE+131I-metuximab	TACE	D 1
Types of previous interventional therapy	(n = 160)	(n = 160)	P value
Transcatheter arterial chemoembolization	101 (63%)	104 (65%)	
Transcatheter arterial embolization	26 (16%)	61 (38%)	
Hepatic arterial infusion chemotherapy	41 (26%)	46 (29%)	
Microwave ablation	1 (1%)	0 (0%)	
Radiofrequency ablation	1 (1%)	1 (1%)	
Total previous interventional therapy	143 (89%)	136 (85%)	0.24

Data are n (%). P value was calculated by chi-square test.

Supplemental Table 3 Types of tumor recurrence

Types of tumor requirence	TACE+131I-metuximab	TACE	P value	
Types of tumor recurrence	(n = 160)	(n = 160)	1 value	
New intrahepatic recurrence	100 (63%)	128 (80%)	0.001	
Intrahepatic residual recurrence	102 (64%)	130 (81%)	< 0.001	
Extrahepatic metastasis	52 (33%)	98 (61%)	< 0.001	

Data are n (%). P value was calculated by chi-square test.

Supplemental Table 4 Summary of efficacy measures

	TACE+ ¹³¹ I-metuximab	TACE			
Outcomes	(n = 160)	(n = 160)	Hazard ratio (95% CI)	P value	
Time to recurrence (mo)			0.55 (0.43–0.70)	< 0.001	
Median	6	3			
95% CI	4.4–7.6	2.4–3.6			
6-mo recurrence rate (%)	52.1	79.1			
12-mo recurrence rate (%)	69.7	90.3			
18-mo recurrence rate (%)	78.8	94.8			
24-mo recurrence rate (%)	86.3	94.8			
36-mo recurrence rate (%)	87.7	96.3			
Overall survival (mo)			0.62 (0.47–0.82)	0.001	
Median	28	19			
95% CI	23.8–32.2	14.3–23.7			
1-yr survival rate (%)	80.5	63.9			
2-yr survival rate (%)	58.4	39.3			
3-yr survival rate (%)	34.6	23.6			
4-yr survival rate (%)	24.7	10.4			
5-yr survival rate (%)	14.8	6.9			

Data were analyzed by Kaplan-Meier method and log-rank test. CI = confidence interval.

Supplemental Table 5 Incidence of drug-related adverse events*

Adverse events	TACE+13	TACE+ 131 I-metuximab (n = 160)			TACE (n = 160)			P value †	
	Any grade	Grade 3	Grade 4	Any grade	Grade 3	Grade 4	Any grade	Grade 3 or 4	
Fever	38 (24%)	13 (8%)	0	33 (21%)	10 (6%)	0	0.59	0.67	
Pain	29 (18%)	5 (3%)	0	32 (20%)	4 (3%)	0	0.78	1.00	
Vomiting	32 (20%)	5 (3%)	0	35 (22%)	6 (4%)	0	0.78	1.00	
Ascites	3 (2%)	0	0	1 (1%)	0	0	0.62	NA	
Pleural effusion	3 (2%)	0	0	2 (1%)	0	0	1.00	NA	
Biliary stenosis	0	0	0	0	0	0	NA	NA	
Fatigue	28 (18%)	1 (1%)	0	25 (16%)	0	0	0.76	1.00	
Diarrhea	5 (3%)	0	0	3 (2%)	0	0	0.72	NA	
Haemoglobin	31 (19%)	1(1%)	0	21 (13%)	0	0	0.13	1.00	
White blood cell	55 (34%)	8 (5%)	0	21 (13%)	1 (1%)	0	< 0.001	0.04	
Neutrophil	32 (20%)	5 (3%)	1 (1%)	10 (6%)	1 (1%)	1 (1%)	< 0.001	0.28	
Platelet	61 (38%)	11 (7%)	2 (1%)	61 (38%)	9 (6%)	1 (1%)	1.00	0.52	
ALT	49 (31%)	3 (2%)	0	91 (57%)	7 (4%)	0	< 0.001	0.34	
AST	54 (34%)	3 (2%)	0	97 (61%)	12 (8%)	1 (1%)	< 0.001	0.02	
TBIL	53 (33%)	4 (3%)	2 (1%)	89 (56%)	6 (4%)	0	< 0.001	1.00	
ALB	22 (14%)	0	0	53 (33%)	0	0	< 0.001	NA	
Creatinine	6 (4)	0	0	11 (7%)	0	0	0.21	NA	

Data are n (%). *According to the version 4.0 of the National Cancer Institute's Common Terminology Criteria for adverse events. †P value was calculated by Fisher's exact test (two-sided). NA = not applicable; ALT = alanine aminotransferase; AST = aspartate aminotransferase; ALB = albumin; TBIL = total bilirubin.

Supplemental Table 6 Types of death causes

Town C.L. of London	TACE+ ¹³¹ I-metuximab	TACE	D 1
Types of death causes	(n = 160)	(n = 160)	P value
Intrahepatic tumor progression	51 (32%)	45 (28%)	
Extrahepatic tumor progression	10 (6%)	15 (9%)	
Systemic tumor progression	24 (15%)	49 (31%)	
Chemotherapy-related toxic side effects	1 (1%)	2 (1%)	
Other causes	7 (4%)	2 (1%)	
Total death	93 (58%)	113 (71%)	0.018

Data are n (%). P value was calculated by chi-square test.