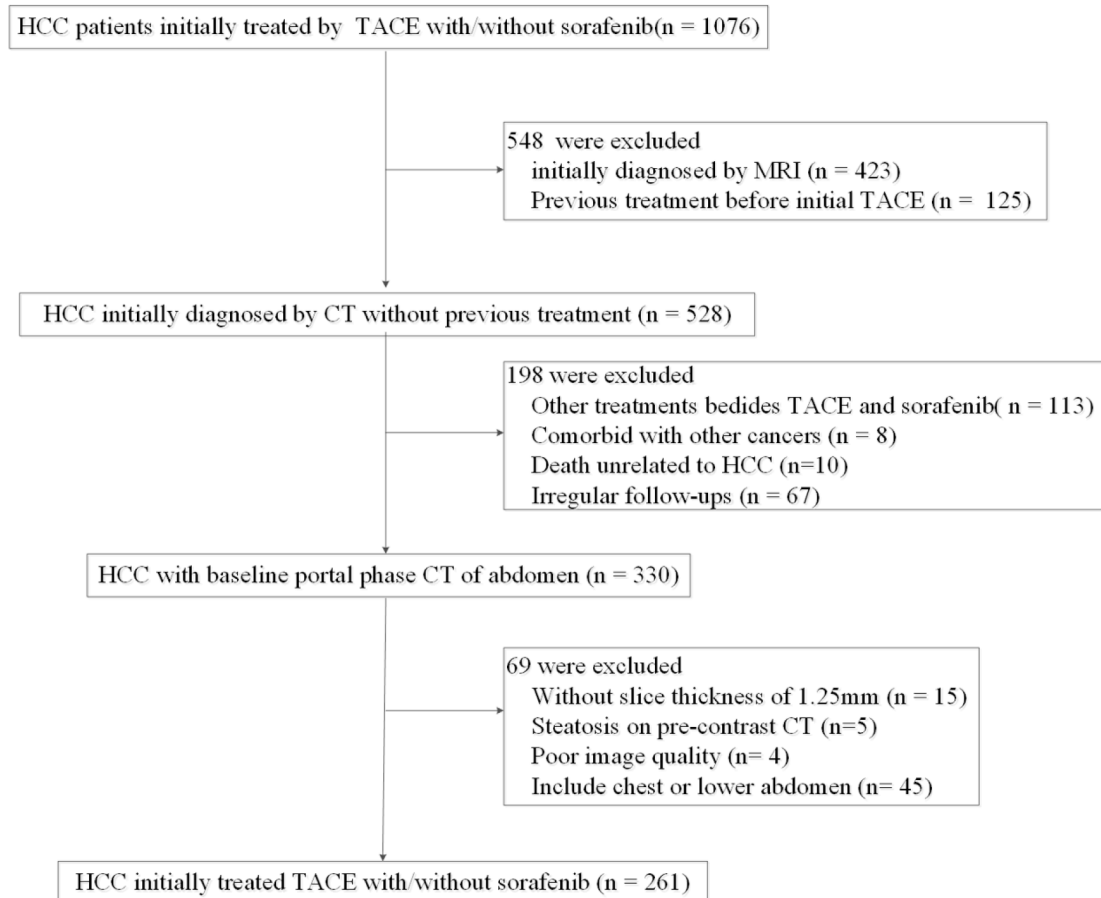


## Texture analysis of intermediate-advanced hepatocellular carcinoma: prognosis and patients' selection of transcatheter arterial chemoembolization and sorafenib

### Supplementary Materials



Abbreviations: HCC: hepatocellular carcinoma; CT: computer tomography; TACE: transcatheter arterial chemoembolization

**Supplementary Figure S1: Flowchart of patients' inclusion and exclusion.**

**Supplementary Table S1: Demographic and baseline characteristics of the patients.** see Supplementary\_Table\_S1

**Supplementary Table SE1: Univariate Cox regression for textural parameters in TTP and OS in TACE patients.**  
see Supplementary\_Table\_SE1

**Supplementary Table SE2: Univariate Cox regression of clinical factors for TTP and OS in TACE patients.**  
see Supplementary\_Table\_SE2

**Supplementary Table SE3: Multivariate Cox regression for TTP and OS in TACE patients**

Cox model*	Gabor filter			Wavelet transform		
	Factors	HR (95% CI)	P	Factors	HR (95% CI)	P
<b>TTP</b>						
Filter 0	Gabor-1-90	1.516 (1.049–2.191)	0.027		None identified	
Filter 1.0	Gabor-1-135	2.543 (1.229–5.262)	0.012	VI/EM	0.548 (0.313–0.962)	0.036
				Wavelet-2-D	1.085 (1.022–1.153)	0.008
Filter 1.5	Gabor-1-135	5.276 (1.645–16.916)	0.005	Wavelet-2-D	1.119 (1.030–1.217)	0.008
<b>OS</b>						
Filter 0		-			-	
Filter 1.0		None identified		Sex	4.056 (0.974–16.887)	0.054
				Wavelet-3-D	1.121 (1.004–1.251)	0.043
Filter 1.5		-			-	

Abbreviations: \*Twelve separate multivariate cox regression analyses were performed: 6 for TTP and 6 for OS, and only variables with a statistical significance were listed; -waived due to the absence of identified textural parameters in univariate cox regressions.

TTP: time to progression; OS: Overall survival; TACE: transcatheter arterial chemoembolization; HR: hazard ratio; BCLC: Barcelona Clinic Liver Cancer; VI/EM: vascular invasion or extrahepatic metastasis;

**Supplementary Table SE4: Kaplan-Meier method and log-rank tests for subgroups by texture analysis**

	<b>Groups</b>	<b>Median#</b>	<b>P with T+S</b>
<b>TTP</b>			
	<b>T+S</b>	140 (120–160)	
	<b>TACE</b>	149 (110–188)	0.844
	Gabor-1-90 (filter 0) < 3.6190	199 (160–238)	0.135
	> 3.6190	89 (77–101)	< 0.001 *
	Gabor-1-135 (filter 1.0) < 1.3995	205 (126–284)	0.009*
	> 1.3995	102 (77–127)	0.033*
	Gabor-1-135 (filter 1.5) < 0.5175	287 (189–385)	0.010*
	> 0.5175	102 (77–125)	0.016*
	Wavelet-2-D (filter 1.0) < 18.3585	244 (167–321)	0.012*
	> 18.3585	102 (88–116)	0.022*
	Wavelet-2-D (filter 1.5) < 6.7515	199 (154–244)	0.152
	> 6.7515	98 (72–124)	0.049*
<b>OS</b>			
	<b>T+S</b>	612 (549–675)	
	<b>TACE</b>	590 (524–656)	0.592
	Wavelet-3-D (filter 1.0) < 12.2620	711 (591–831)	0.072
	> 12.2620	349 (248–450)	< 0.001 *

Abbreviations: #Unit: days; \*with a statistical difference; T+S: TACE+sorafenib; TTP: time to progression; OS: overall survival; TACE: transcatheter arterial chemoembolization.