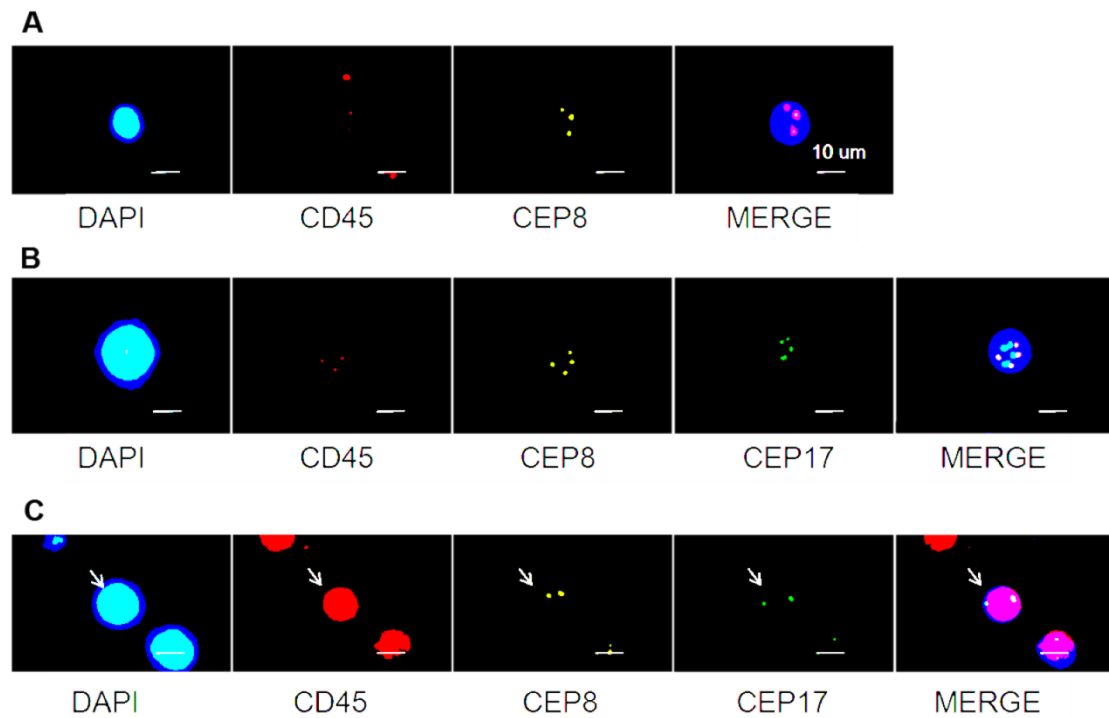


Supplemental Figures

Figure S1. Identification of CTC using NE-imFISH technique



Notes:

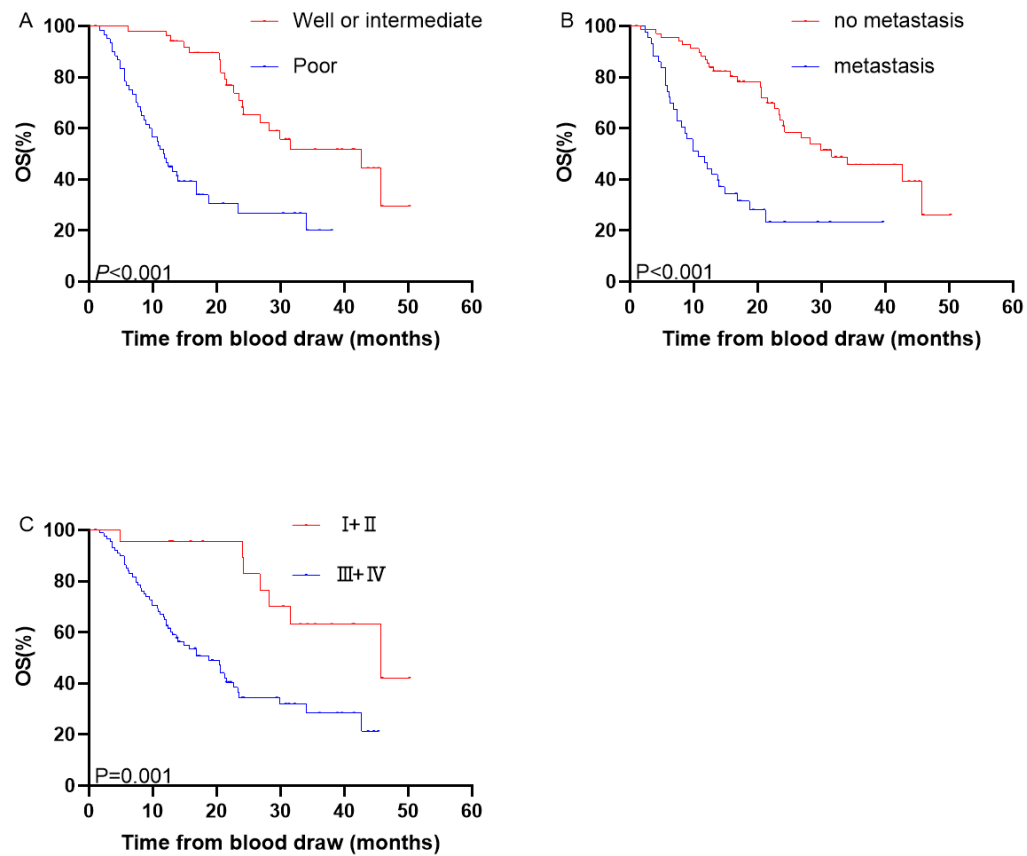
A: CTC (DAPI+/CD45-/CEP8+);

B: CTC (DAPI+/CD45-/CEP8+/CEP17+);

C: WBC (DAPI+/CD45+/CEP8-/CEP17-), the white arrow shows the WBC.

Abbreviations: CTC, circulating tumor cell.

Figure S2. Kaplan-Meier curves for OS in patients with significant parameters of clinical features.



Notes: (A)Kaplan-Meier curves for patients with poor differentiation and well or intermediate.(B) Kaplan-Meier curves for patients with or without metastasis.(C) Kaplan-Meier curves for patients with stage I + II and stage III+IV diseases.

Supplemental Table

Supplemental Table.Multivariate Cox regression analysis for predicting OS

Parameter	OS risk		
	HR	95% CI	P-value
Univariate analysis:			
Gender (male vs female)	1.053	0.558—1.986	0.874
Age (≥65 vs <65)	1.853	0.512—1.415	0.535
Surgery (no vs yes)	1.199	0.715—2.013	0.491
Metastasis (yes vs no)	3.273	1.939—5.526	<0.001
TNM stage (Ⅲ+Ⅳ vs Ⅰ+Ⅱ)	3.984	1.700—9.333	0.001
Differentiation(Poor vs Well or intermediate)	3.974	2.249—7.019	<0.001
Baseline CEA (≥5 vs <5)	2.208	1.315—3.706	0.003
Post-therapy CEA (≥5 vs <5)	1.795	1.080—2.983	0.024
Baseline CA72-4 (≥6.9 vs <6.9)	2.456	1.437—4.195	0.001
Post-therapy CA72-4 (≥6.9 vs <6.9)	2.827	1.374—5.816	0.005
Baseline CA242 (≥20 vs <20)	2.042	1.098—3.796	0.024
Post-therapy CA242 (≥20 vs <20)	2.964	1.510—5.821	0.002
Baseline CA19-9 (≥27 vs <27)	1.760	1.020—3.038	0.042
Post-therapy CA19-9 (≥27 vs <27)	2.202	1.269—3.821	0.005
Baseline CA50 (≥20 vs <20)	2.028	1.044—3.938	0.037
Post-therapy CA50 (≥20 vs <20)	2.405	1.242—4.659	0.009
Therapeutic response assessment (PD vs Non-PD)	4.590	2.559—8.233	<0.001
Baseline CTCs (> 3 vs ≤ 3)	2.486	1.484—4.166	0.001
Post-therapy CTCs (> 3 vs ≤ 3)	2.253	1.333—3.810	0.002
Multivariate analysis:			

Differentiation (Poor vs Well or intermediate)	3.669	1.764—7.631	0.001
Pre-therapy CTCs (> 3 vs ≤ 3)	2.518	1.389—4.564	0.002
Therapeutic response assessment (PD vs Non-PD)	3.128	1.397—7.002	0.006

Abbreviations: CTC, circulating tumor cells; CEA, carcinoembryonic antigen; CA, carbohydrate antigen.