

Supplementary Table 3. Subgroup meta-analysis affecting local progression-free survival (LPFS) and progression-free survival (PFS)

Group	Cohorts	Patients	Heterogeneity*	I ² , %	Egger's test*	Fixed event rate (95% CI)	Random event rate (95% CI)	P-value†
1-year LPFS								
CP_A >80%‡	7	543	0.7261	0.00	0.4332	0.96 (0.94-0.97)	0.96 (0.94-0.97)	0.9786
CP_A ≤80%	6	570	0.0005	77.36	0.2336	0.98 (0.96-0.99)	0.96 (0.91-0.99)	0.5567
mSize <3.5 cm	5	497	0.1313	43.57	0.1019	0.97 (0.96-0.99)	0.97 (0.94-0.99)	0.3106
mSize ≥3.5 cm	8	484	0.0060	64.66	0.2285	0.97 (0.95-0.98)	0.96 (0.91-0.99)	0.6846
Median BED ≥100 GyE ₁₀	8	603	0.4318	0.00	0.6425	0.97 (0.95-0.98)	0.97 (0.95-0.98)	
Median BED <100 GyE ₁₀	4	363	0.0002	84.90	0.2202	0.97 (0.96-0.99)	0.93 (0.81-1.00)	
PVTT <20%§	4	220	0.3807	2.33	0.5452	0.95 (0.92-0.98)	0.95 (0.92-0.98)	
PVTT ≥20%	4	137	0.0007	82.37	0.4506	0.95 (0.90-0.98)	0.94 (0.79-1.00)	
3-year LPFS								
CP_A >80%	8	649	0.0499	50.26	0.4219	0.89 (0.87-0.92)	0.89 (0.85-0.92)	0.7154
CP_A ≤80%	6	785	0.2830	19.95	0.7801	0.90 (0.87-0.92)	0.90 (0.87-0.92)	0.7296
mSize <3.5 cm	6	740	0.0070	68.63	0.5538	0.87 (0.85-0.90)	0.87 (0.81-0.91)	
mSize ≥3.5 cm	6	411	0.0203	62.54	0.1253	0.90 (0.87-0.93)	0.89 (0.82-0.94)	0.2892
Median BED ≥100 GyE ₁₀	10	1,088	0.0165	55.51	0.5286	0.90 (0.88-0.91)	0.89 (0.86-0.92)	
Median BED <100 GyE ₁₀	4	366	0.0292	66.69	0.5581	0.87 (0.83-0.90)	0.85 (0.75-0.93)	0.8360
PVTT <20%	4	220	0.0013	80.89	0.4864	0.88 (0.83-0.92)	0.86 (0.74-0.95)	
PVTT ≥20%	2	64	0.0035	88.30	-	0.87 (0.77-0.94)	0.84 (0.49-1.00)	
5-year LPFS								
CP_A >80%	8	668	<0.0001	78.92	0.5550	0.85 (0.83-0.88)	0.84 (0.77-0.90)	0.4076
CP_A ≤80%	5	770	0.0178	66.50	0.4514	0.87 (0.84-0.89)	0.87 (0.83-0.92)	0.1155
mSize <3.5 cm	6	748	0.0006	77.08	0.9689	0.83 (0.80-0.86)	0.83 (0.76-0.89)	0.7571
mSize ≥3.5 cm	4	372	0.5204	0.00	0.3447	0.89 (0.85-0.92)	0.89 (0.85-0.92)	0.1577
Median BED ≥100 GyE ₁₀	9	1,053	0.0006	70.97	0.5069	0.87 (0.85-0.89)	0.86 (0.82-0.90)	
Median BED <100 GyE ₁₀	4	385	0.0016	80.38	0.7928	0.84 (0.80-0.87)	0.85 (0.73-0.94)	
PVTT <20%	4	228	0.0320	65.92	0.0209	0.85 (0.80-0.90)	0.87 (0.78-0.93)	
PVTT ≥20%	1	40	-	-	-	0.95 (0.86-1.00)	0.95 (0.86-1.00)	
1-year PFS								
CP_A >80%	7	426	0.0406	54.40	0.4051	0.70 (0.65-0.74)	0.70 (0.63-0.77)	0.1270
CP_A ≤80%	4	348	<0.0001	90.16	0.8164	0.55 (0.49-0.60)	0.51 (0.28-0.75)	0.4526
mSize <3.5 cm	6	540	0.0002	79.29	0.0402	0.63 (0.59-0.67)	0.69 (0.58-0.78)	
mSize ≥3.5 cm	6	269	<0.0001	87.53	0.4906	0.65 (0.59-0.70)	0.61 (0.43-0.78)	

Supplementary Table 3. Continued

Group	Cohorts	Patients	Heterogeneity*	I ² , %	Egger's test*	Fixed event rate (95% CI)	Random event rate (95% CI)	P-value [†]
Median BED ≥100 GyE ₁₀	6	381	0.0219	62.01	0.3523	0.69 (0.65-0.74)	0.70 (0.62-0.78)	0.1769
Median BED <100 GyE ₁₀	5	413	<0.0001	89.88	0.9654	0.58 (0.53-0.63)	0.57 (0.38-0.75)	
PVTT <20%	5	234	0.0094	70.20	0.1636	0.69 (0.63-0.75)	0.71 (0.59-0.81)	0.3353
PVTT ≥20%	3	113	<0.0001	94.33	0.1264	0.57 (0.48-0.66)	0.51 (0.15-0.87)	
3-year PFS								
CP_A >80%	7	607	<0.0001	85.19	0.2164	0.28 (0.25-0.32)	0.32 (0.22-0.43)	0.0246
CP_A ≤80%	3	341	0.0265	72.47	0.2844	0.19 (0.14-0.23)	0.14 (0.05-0.26)	
mSize <3.5 cm	6	740	<0.0001	90.57	0.0139	0.25 (0.22-0.29)	0.34 (0.22-0.47)	0.3279
mSize ≥3.5 cm	4	216	<0.0001	86.94	0.2968	0.29 (0.23-0.36)	0.23 (0.08-0.42)	
Median BED ≥100 GyE ₁₀	7	644	<0.0001	89.65	0.0711	0.29 (0.25-0.33)	0.35 (0.23-0.47)	0.2168
Median BED <100 GyE ₁₀	3	324	0.1034	55.92	0.6034	0.22 (0.17-0.27)	0.24 (0.15-0.36)	
PVTT <20%	5	251	<0.0001	88.35	0.1286	0.34 (0.28-0.40)	0.38 (0.21-0.57)	-
PVTT ≥20%	0	0	-	-	-	-	-	
5-year PFS								
CP_A >80%	8	650	<0.0001	90.11	0.3463	0.20 (0.17-0.23)	0.23 (0.13-0.35)	0.0342
CP_A ≤80%	2	326	0.0311	78.49	-	0.10 (0.07-0.14)	0.08 (0.02-0.18)	
mSize <3.5 cm	6	748	<0.0001	91.20	0.0311	0.16 (0.14-0.19)	0.23 (0.13-0.35)	0.6887
mSize ≥3.5 cm	3	201	<0.0001	91.13	0.9287	0.19 (0.14-0.25)	0.19 (0.03-0.41)	
Median BED ≥100 GyE ₁₀	6	609	<0.0001	87.67	0.5196	0.16 (0.13-0.19)	0.18 (0.10-0.28)	0.8302
Median BED <100 GyE ₁₀	4	367	<0.0001	94.17	0.6346	0.16 (0.12-0.20)	0.20 (0.03-0.47)	
PVTT <20%	5	259	<0.0001	92.96	0.2003	0.21 (0.16-0.27)	0.25 (0.08-0.48)	-
PVTT ≥20%	0	0	-	-	-	-	-	

CI, confidence interval; CP, Child-Pugh; mSize, median tumor size; median BED, median total dose of biologically effective dose, using a linear quadratic model with alpha/beta ratios of 10 for tumor; PVTT, portal vein tumor thrombosis.

[†]P-values; ^{*}P-values between groups; [‡]Means that the proportion of patients with CP class of A was >80% among the whole patients; [§]Means that the proportion of patients with PVTT was <20% among the whole patients.