

Table 1 Preoperative characteristics of patients with or without preoperative chemotherapy

Preoperative factor	Preoperative chemotherapy Group (n=15)	No chemotherapy Group (n=12)	p value
Age : Median (ranges)	65 (53-81)	56 (39-79)	0.038
Sex (M/F)	10/5	7/5	0.953
BMI (kg/m ²)	24.1 ± 3.6	23.5 ± 2.4	0.616
WBC(/μl)	4640 ± 1861	5725 ± 1099	0.087
Hb(g/dL)	11.9 ± 1.8	12.2 ± 1.7	0.674
Plt (/μl)	18.3± 4.6	26.8 ± 10.8	0.011
Prothrombin time(%)	101.5 ± 11	109.2 ± 7.7	0.056
Albumin(g/dl)	3.8 ± 0.4	4.1 ± 0.3	0.012
Serum bilirubin (mg/dl)	0.7 ± 0.3	0.6 ± 0.2	0.661
AST(U/L)	26.4 ± 8.5	25.4 ± 16	0.684
ALT(U/L)	25.9 ± 12	25.3 ± 16	0.912
Pre-operative ICG R15(%)	14.4 ± 6.3	6.8 ± 3.2	0.001
Asialo scintigraphy (LHL15)	0.933 ± 0.25	0.926 ± 0.31	0.034
Cycles of FOLFOX	7.7 ± 2.1	–	
Duration of FOLFOX(months)	4.1 ± 1.2	–	
Days after last FOLFOX(days)	37 ± 20 (median 30)	–	

BMI indicates body mass index.

Values are mean ±SD.

Table 2 Pre-operative characteristics of liver metastases with or without preoperative chemotherapy

	Preoperative chemotherapy Group(n=15)	No chemotherapy Group(n=12)	p value
Tumor size (mm)	34.6 ± 17	66.7 ± 43	0.013
Number of metastasis	5.9 ± 5.6	2.4 ± 2.2	0.054
Primary site, Colon/Rectum	10 / 5	7 / 5	0.952
Synchronous/ Metachronous	11 / 4	3 / 9	0.03
CEA : Mean (range)	206.6 (1.2-2428)	285.4 (1.1-3157)	0.791

Values are mean ±SD.

Table 3 Intra-operative parameters of patients with or without preoperative chemotherapy

	Preoperative chemotherapy Group(n=15)	No chemotherapy Group(n=12)	p value
Resection type hemi liver / section / partial	3 / 7 / 5	5 / 2 / 5	0.210
Vascular interruption time (min)			
total	21.0 ± 31	30.0 ± 33	0.453
partial	58.9 ± 70	24.0 ± 60	0.185
Blood loss(mean ±SD)(ml)	435 ± 247	383 ± 458	0.714
No. of patients requiring blood transfusion(%)	15.4%	10.0%	0.999
Operative time (min)	501 ± 92	448 ± 180	0.323

Values are mean ±SD.

Table 4 Pathologic features of the non-tumorous liver in patients with or without chemotherapy

	Preoperative chemotherapy Group (n=15)	No chemotherapy Group (n=12)	p value
Macroscopic findings			
<u>Blue liver (positive/negative)</u>	7/8	0/12	0.020
Microscopic findings			
Steatosis ; grade 0/1/2/3	9/6/0/0	8/2/2/0	0.768
NAFLD Activity Score (NAS) 0~2/3~4/ 5	9/6/0	10/0/2	0.302
Sinusoidal Dilatation;Rubbia- Brandt Classification 0/1/2/3	3/8/4/1	6/5/1/0	0.056
Hemorrhagic centrilobular necrosis	0	0	
Regenerative nodular hyperplasia	0	0	

Values are mean \pm SD.

Table 5 Postoperative liver function in patients with or without chemotherapy

	Preoperative chemotherapy Group (n=15)	No chemotherapy Group (n=12)	p value
post-operative value (mean \pm SD)			
Prothrombin time(%)	64 \pm 12	72 \pm 16	0.158
Albumin(g/dl)	3.0 \pm 0.4	3.2 \pm 0.4	0.297
Total bilirubin (mg/dl)	1.4 \pm 0.7	1.6 \pm 0.8	0.505
AST(U/L)	798 \pm 400	535 \pm 405	0.105
ALT(U/L)	644 \pm 403	509 \pm 365	0.370

Values are mean \pm SD.

* the worst value of postoperative hospital stay

Table 6 Postoperative morbidity and mortality in patients with or without chemotherapy

	Preoperative chemotherapy Group (n=15)	No chemotherapy Group (n=12)	p value
	postoperative events (%)		
Any complications	2 (13%)	3 (25%)	0.770
	aspiration pneumonia (1)	hemorrhage (1)	
	bile leakage (1)	bile leakage (2)	
Reoperation	0 (0%)	0 (0%)	
Postoperative hospital stay (mean \pm SD)(days)	26 \pm 28	18 \pm 12	0.300
Postoperative mortality	0 (0%)	0 (0%)	

Values are mean \pm SD.