Supplementary Online Content

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eFigure. Examples of Patients Downstaged to Surgery

eTable 1. Reasons for Unresectability of Patients Finally Resected

eTable 2. Cox Regression Analysis of Overall Survival According to Baseline Characteristics

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1: Examples of Patients Downstaged to Surgery

73-year old male patient with a right hemiliver tumor in contact with the left portal vein (A). At 6 months, partial response by RECIST and CHOI criteria, and no contact with the left portal vein (B). He was treated with extended right hepatectomy, achieving R0 resection. He recurred after 1 year at the resection site, which was treated with stereotactic radiotherapy, but with recent progression of the same lesion. He is alive at 45 months following diagnosis and 32 months following surgery.

56-year old female patient with left hemiliver tumor involving left portal vein up to the portal trunk (C). At 6 months, stable disease by RECIST 1.1, partial response by CHOI, with thrombosis stabilized (D). She was treated with extended left hepatectomy. She recurred with one solitary tumor at 1 year following surgery in the right liver, treated with radiofrequency ablation. She is alive with no evidence of disease at 33 months following diagnosis, 25 months following surgery and 13 months following radiofrequency.



Patient number	Reason for initial	Outcomes following	Surgical resection
	unresectability	treatment	
4	Central lesion in contact	Left portal branch free	Extended right
	with both left and right		hepatectomy
	portal branches		
8	Central lesion in contact	Right portal branch	Left hepatectomy
	with both left and right	free	extended to
	portal branches, left		anterior sector
	portal vein thrombosis		
11	Right liver lesion with	Left portal branch free	Right hepatectomy
	contact with left portal		
	branch		
18	Left liver lesion with	Necrosis of the	Left hepatectomy,
	tumoral thrombus in the	thrombus	viable tumor in the
	left branch up to the		branch but R0
	trunk		surgery
19	Central lesion in contact	Right portal branch	Left hepatectomy
	with both left and right	free	extended to
	portal branches, left		anterior sector
	portal vein thrombosis		
22	Central lesion in contact	Right portal branch	Left hepatectomy
	with both left and right	free	extended to
	portal branches		anterior sector
26	Involvement of 3 hepatic	Left hepatic vein free	Extended right
	veins		hepatectomy
30	Central lesion in contact	Left hepatic branch	Right hepatectomy
	with both left and right	free	
	portal branches		
41	Involvement of 3 hepatic	Left hepatic vein free	Extended right
	veins		hepatectomy

eTable 1: Reasons for Unresectability of Patients Finally Resected

eTable 2: Cox Regression Analysis of Overall Survival According to Baseline Characteristics

Characteristics	Univariable analysis		/sis	Multivariable (n=36)	
	HR [9	5%]	P value	HR [95%]	P value
Age (by 5-years increment),	0.94	[0.75 -	0,549		
n=41	1.16]				
Sex (male vs female), n=41	1.06	[0.45 -	0,888		
	2.49]				
Cirrhosis, n=41	1.82	[0.76 -	0,179		
	4.36]				
PS>1, n=40	1.85 [0.79 - 4.3]	0,155		
Albumin (by 5UI increment),	0.32	[0.19 -	<0.001	0.21 [0.11 - 0.43]	< 0.001
n=39	0.54]				
Prothrombin time, n=41	0.91	[0.79 -	0,148		
	1.04]				
Total bilirubin, n=41	1.25	[0.92 -	0,16		
	1.71]				
ALT, n=41	0.9	[0.68 -	0,439		
	1.18]				
AST, n=41	1.14	[0.8 -	0,474		
	1.61]				
PAL (by 10UI increment), n=41	1.08	[1.03 -	0,002		
	1.13]				

GGT (by 10UI increment), n=	1.02 [1 - 1.04]	0,056		
40				
AFP> ULN, n=40	2.31 [0.99 -	0,052		
	5.39]			
CA19.9> ULN, n=39	1.78 [0.72 -	0,21		
	4.39]			
CEA> ULN, n=39	3.27 [1.36 -	0,008	5.17 [1.82 -	0,002
	7.86]		14.69]	
Previous surgery, n=41	0.49 [0.11 -	0,336		
	2.11]			
Bilolateral tumor, n=41	1.55 [0.67 - 3.6]	0,306		
Pulmonary lesions, n=41	1.5 [0.55 - 4.09]	0,423		
Abdominal lymph nodes,	2.33 [0.95 -	0,063		
n=41	5.69]			
Liver hilar lymph nodes, n=41	1.84 [0.74 -	0,186		
	4.57]			
Other centers vs coordinating	2.62 [1.1 - 6.29]	0,03		
center, n=41				

Transferase; PAL: Alkalin Phosphatase; AFP: Alpha-feto Protein; CA: Carcino Antigen; CEA: Carcino-Embryonic Antigen.

PS: Performance Status; ALT: Alanin Transferase; AST: Aspartate Transferase; GT: Glutamyl

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