



4th Paris Hepatitis Conference

Paris, 17 January 2011

How I manage my patients with hepatocellular carcinoma

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Patients With a HCC Attending the Liver Center Policlinic Hospital Milan During 2010

Overall HCC patients, n.	262
Males	217 (83%)
Age, yr	68 (36-87)

Etiology, n.	HCV	142 (54%)
	HBV	30 (11%)
	Etoh	31 (12%)
	Mixed	56 (21%)

Early diagnosed, n.	69 (26%)
Surveillance	39 (56%)
Referred	30 (44%)
BCLC B-D, n.	193 (74%)

Early diagnosed (BCLC), n.				
Α	64 (93%)	С	3 (4%)	
В	2 (3%)	D	0 (0%)	

Evolving Guidelines for Clinical Management of Hepatocellular Carcinoma

Journal of Hepatology 35 (2001) 421-430

Clinical Management of Hepatocellular Carcinoma. Conclusions of the Barcelona-2000 EASL Conference

AASLD PRACTICE GUIDELINE

HEPATOLOGY, Vol. 42, No. 5, 2005

Management of Hepatocellular Carcinoma

Jordi Bruix¹ and Morris Sherman²

AASLD PRACTICE GUIDELINE

www.aasld.org

Management of Hepatocellular Carcinoma: An Update

Jordi Bruix1 and Morris Sherman2

Radiological Diagnosis of Hepatocellular Carcinoma in Patients With Cirrhosis: EASL/AASLD Guidelines

<u>Imaging techniques</u> contrast-enhanced US, contrast-enhanced spiral CT

and gadolinium-enhanced MRI

Pathognomonic features wash-in followed by wash-out

< 2 cm node two concordant contrast imaging techniques

> 2 cm node one contrast imaging technique only

Prospective validation* 89 patients with a 7-20 mm nodule

CE-US+MRI Sensitivity 33.3%

Specificity 100%

Radiological Diagnosis of 1-2 cm HCC Nodules in Cirrhosis A Prospective Study in Milan

lmaging	HCC Patients	Sensitivity	Specificity
CE-US	34	26%	100%
СТ	34	44%	100%
MRI	32	44%	100%
Sequential stud	dy with one imaging	65%	100%
Two coincident	Two coincidental imagings (AASLD)		100%

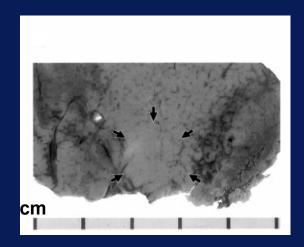
Cost Analysis of Sequential <u>vs</u> Two Concordant Imaging Techniques for HCC

HCC diagnosis by at least 1 imaging		No. FNB	Aggreg. Cost (€)	
1 st step	2 nd step	3 rd step		
CE-US	СТ	MRI	33	28,667
	MRI	СТ	33	30,215
СТ	CE-US	MRI	33	28,909
	RM	CE-US	33	29,346
MRI	СТ	CE-US	33	30,970
	CE-US	СТ	33	30,607
AASLD criteria	2 concorda	nt imaging		
CE-US and CT	MRI		43	26,440
CE-US and MRI	СТ		43	30,922
CT and MRI	CE-US		43	33,898

Sangiovanni A. et al. GUT 2010 ;59:638-644.

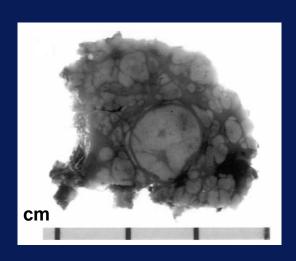
Very Early HCC Escapes Detection with Contrast Imaging and Has a Better Prognosis Than Early HCC

Very early



Vaguely nodular
Hypovascular on contrast imaging

Early



Distinctly nodular

Hypervascular on contrast imaging

Very early vs early: 5-yr survival after resection of 93% vs 54% (Takayama et al 1998)

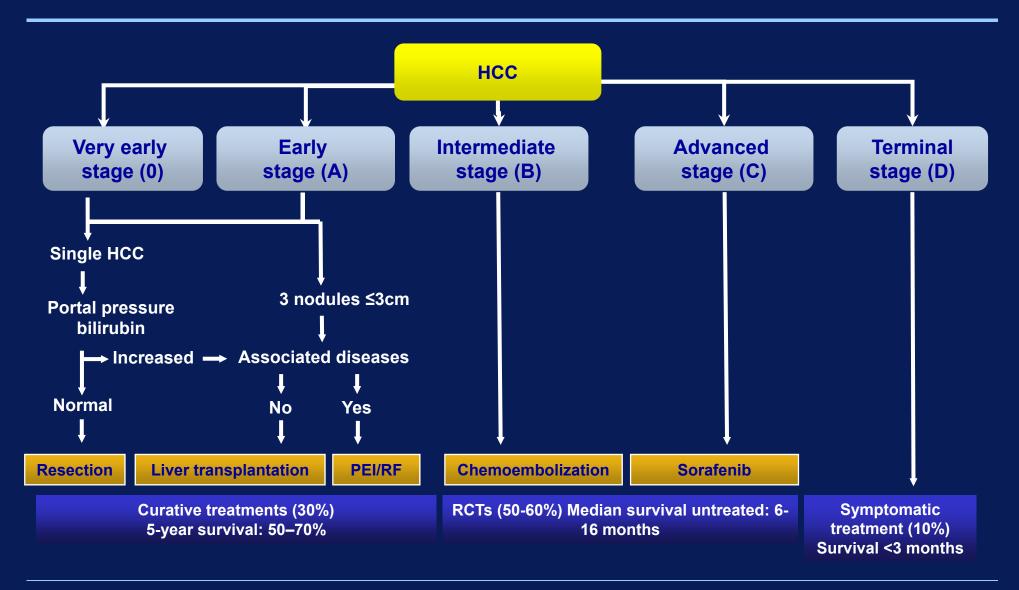
Modern Staging Systems in Hepatocellular Carcinoma

Staging system	External validation	Variables	Treatment guidance	Endorsement
BCLC (Sem Liver Dis 1999)	Yes	Tumor status Liver function Health status	Yes	AASLD EASL AASLD JNCI
CLIP (Hepatology 1999)	Yes	Tumor status Liver function	No	AHPBA
TNM-AJCC (JCO 2002)	Yes	Tumor status	No	AJCC
JIS (J Gastro 2003)	Yes	Tumor status Liver function	No	-

The Barcelona Clinic Liver Cancer (BCLC) Staging Classification for Hepatocellular Carcinoma Is Endorsed by EASL/AASLD

BCLC stage	Performance status	Tumor volume,number and invasiveness	Child-Pugh	Expected survival
A Very Early/Early	0	Single < 5 cm or 3 nodes < 3 cm each	A & B	50-75% at 5 yr
B Intermediate	0	Large/multinodular	A & B	16 months
C Advanced	1-2	Vascular invasion and/or extrahepatic spread	A & B	6 months
D End-stage	3-4	Any of the above	С	< 3 months

Tailoring Treatment According to the Clinical Stage of HCC



Surveillance of 447 Patients with Compensated Cirrhosis of Mixed Etiology in Milan

Outcomes	1987-91	1992-96	1997-2001	р
HCC, No.	52	37	23	
HCC size, cm	3.7 (1.5-8)	3.0 (1.5-6.0)	2.2 (1.4-3.1)	= 0.02
Radical treatments	28%	38%	43%	= 0.02
Mortality in treated	34%	28%	5%	= 0.024
Mortality in untreated	69%	100%	92%	n.s.
Overall mortality	45%	37%	10%	= 0.0009