

Key Literature

Portal hypertension
Vizzutti Hepatology 2007, Sharma Radiology 2012, ...

Esophageal varices
Kim AJG 2011, Bota Hepatology 2012, ...

Decompensation Equator F ICH 2006, Kim DiaDiaSci 20

Foucher EJGH 2006, Kim DigDisSci 2009, Kim Digestion 2012, ...

HCCs

Kim PLoS One 2012, Wang LI 2013, ...

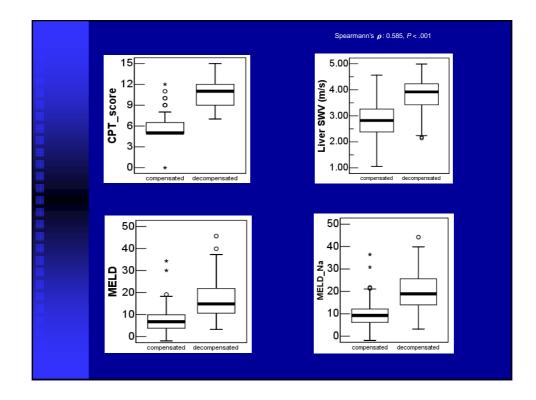
Methods :

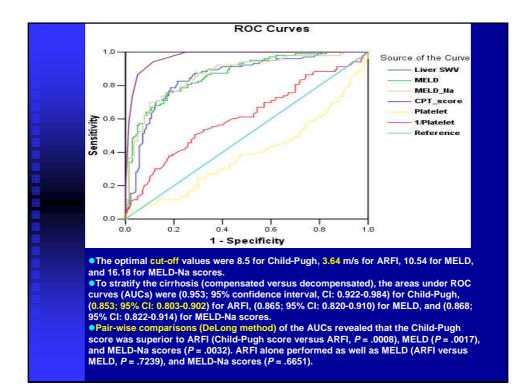
- This prospective cross-sectional study enrolled patients with pathologically or radiologically proven cirrhosis.
- Concomitant decompensated status at study entry (encephalopathy, variceal bleeds or refractory ascites) was categorized as a composite variable.
- Receiver operating characteristics (ROC) analysis was used to examine the diagnostic performances.

Results

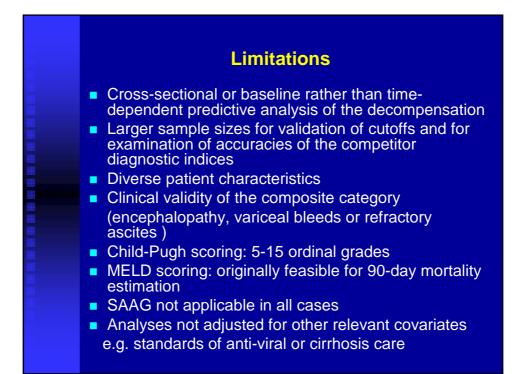
- From September 2010 to November 2012, this study enrolled 243 eligible cirrhotic patients.
- One hundred and sixty were male. One hundred and two were hepatitis B virus (HBV)-infected and 90 were HCV-infected. Eighty were chronic alcoholics.
- On hundred and forty had compensated cirrhosis and 103 had decompensated cirrhosis(103/243, 42.39%).

	Compensated	Decompensated	
Variables	n = 140	n = 103	P value
Age, year	58.51(1.03)	54.05(1.22)	.006
Sex (n)			.132
Male	87(62%)	74(72%)	
Female	53(38%)	29(28%)	
BMI, kg/m ²	24.42(0.33)	23.30(0.30)	.018
CHB (n)	62	40	
CHC (n)	68	22	
ALD (n)	23	57	
ALT, IU/L	64.90(5.64)	44.23(4.36)	.024
Bilirubin, umol/L	27.25(2.91)	129.91(16.86)	<.001
Cr, umol/L	77.43(2.65)	107.91(8.33)	.001
INR	1.18(0.02)	1.63(0.07)	<.001
Na, meq/L	137.11(0.27)	138.00(0.27)	<.001
Platelet, x 10 ⁹ /L	110.32(4.50)	94.00(5.66)	.023
Child-Pugh score	5.9(0.12)	10.8(0.19)	<.001
Liver SWV, m/s	2.80(0.06)	3.80(0.06)	<.001
MELD	7.24(0.44)	16.97(0.84)	<.001
MELD-Na	9.48(0.49)	20.00(0.82)	<.001





Modalities	Sensitivity	Specificity	PPV	NPV	+LR	-LR	DOR
CPT (8.5)	.8640	.9500	.9271	.9047	17.28	.14	120.7
ARFI (3.64)	.7090	.8710	.8017	.8027	5.50	.33	16.45
MELD (10.54)	.7570	.8290	.7651	.8226	4.43	.29	15.10
MELD_Na (16.18)	.6990	.9000	.8372	.8025	6.99	.33	20.90



Conclusions : • ARFI LSM alone is a promising and useful indicator to identify decompensated cirrhosis as compared with MELD and MELD-Na scores.