

A



B



No-HCC

HCC

MELD 12-15

n=6

n=4

LT

n=0

n=0

Died

n=0

n=1

Free-LT
Survived

n=6

n=3

10
Patients

MELD ≥ 15

n=14

n=3

LT

n=3

n=2

Died

n=1

n=0

Free-LT
Survived

n=10

n=1

17
Patients

Supplementary data

Table S1

Changes in MELD and CTP scores over time in patients with advanced cirrhosis without HCC

Variables	Baseline	12 weeks	24 weeks	52 weeks	Last control	<i>p</i>
MELD [median, (Q1-Q3)]	17 (14 - 19)	16 (14 - 19)	16 (14 - 19)	15 (11 - 17)	12 (10 - 16)	< 0.001
CTP [median, (Q1-Q3)]	10 (9 - 11)	9 (9 - 10)	9 (8 - 10)	8 (6 - 9)	6.5 (5 - 9)	< 0.001

Improvement in MELD and CTP scores occurred over time, reaching significance 24 weeks after the start of antiviral therapy ($p < 0.001$).

CTP: MELD: Model of End Stage Liver Disease; Child-Turcotte-Pugh score; HCC: Hepatocellular Carcinoma; Q1: first quartile; Q3: third quartile

Table S2.

Baseline variables associated with changes of either MELD or CTP score over time in advanced cirrhosis without HCC

	MELD Score				Child-Pugh Score			
	Estimate	Lower 95%	Upper 95%	P-value	Estimate	Lower 95%	Upper 95%	P-value
(Intercept)	67.029	-12.688	146.75		27.051	5.907	48.196	
Gender (female)	-3.588	-8.337	1.161	0.14	-0.862	-2.205	0.481	0.21
Age	-0.044	-0.346	0.258	0.77	-0.043	-0.122	0.037	0.29
HIV infection	3.175	-5.609	11.96	0.48	1.619	-0.721	3.958	0.17
CTP or MELD change over time	NA	NA	NA	<0.001	NA	NA	NA	<0.001
MELD score at baseline	NA	NA	NA	NA	0.148	-0.045	0.341	0.13
Log (LV/BSA)	-6.5	-18.056	5.057	0.27	-2.879	-5.891	0.132	0.06
Log (SV/BSA)	-0.335	-5.445	4.774	0.89	0.383	-0.946	1.713	0.57
Gastroesophageal Varices (Large)	-0.101	-7.202	7.001	0.97	0.072	-1.781	1.926	0.94
Portal Vein Trombosis	1.973	-5.138	9.083	0.58	0.243	-1.645	2.13	0.80
History of Alcohol consumption	-2.704	-8.139	2.73	0.33	-0.672	-2.096	0.752	0.35
Diabetes Mellitus	-0.48	-7.069	6.108	0.88	-0.11	-1.814	1.594	0.89
Arterial Hypertension	-4.47	-13.63	4.689	0.34	-0.589	-2.953	1.776	0.63
Obesity (BMI $\geq$ 30 Kg/m ²)	0.175	-7.322	7.671	0.96	-0.7	-2.697	1.298	0.49

In **multivariable** mixed model, only a trend was found between higher LV/BSA and CTP improvement over time.

MELD: Model of End Stage Liver Disease; CTP: Child-Turcotte-Pugh score; HCC: Hepatocellular Carcinoma; HIV: Human Immunodeficiency Virus; NA: Not Applicable; Log: logarithmic; LV: Liver Volume (mL); BSA: Body Surface Area (m²); SV: Spleen Volume (mL); BMI: Body Mass Index.

Table S3.

Sensitivity analysis by MI model: baseline variables associated with changes of either MELD or CTP score over time in overall population

	MELD Score				Child-Pugh Score			
	Estimate	Lower 95%	Upper 95%	P-value	Estimate	Lower 95%	Upper 95%	P-value
(Intercept)	45.319	10.058	80.579		17.774	7.451	28.097	
Gender (female)	-1.109	-3.200	0.983	0.299	-0.208	-0.814	0.399	0.502
Age	-0.046	-0.176	0.085	0.491	-0.036	-0.073	0.001	0.060
HIV infection	3.905	-0.507	8.316	0.083	1.035	-0.281	2.352	0.123
CTP or MELD change over time	NA	NA	NA	<0.001	NA	NA	NA	<0.001
MELD score at baseline	NA	NA	NA	NA	0.211	0.141	0.281	< 0.001
Log (LV/BSA)	-5.818	-10.279	-1.356	0.011	-1.699	-3.006	-0.391	0.011
Log (SV/BSA)	2.024	0.049	3.999	0.045	0.429	-0.142	1.000	0.141
Gastroesophageal Varices (Large)	-0.524	-2.773	1.724	0.647	-0.029	-0.903	0.844	0.95
Portal Vein Trombosis	1.709	-1.024	4.442	0.220	0.188	-0.910	1.285	0.74
History of Alcohol consumption	-0.469	-2.831	1.893	0.697	-0.058	-0.985	870	0.90
Diabetes Mellitus	-0.003	-2.464	2.459	0.998	0.017	-0.947	0.981	0.97
Arterial Hypertension	-1.279	-3.830	1.273	0.326	0.334	-0.675	1.343	0.51
Obesity (BMI $\geq$ 30 Kg/m ²)	0.708	-1.551	2.966	0.539	-0.439	-1.319	0.441	0.33

In the **multivariable** mixed model by MI missing data-analysis, higher LV/BSA and lower SV/BSA were independently associated with MELD improvement over time. Beside, higher LV/BSA and low MELD score at baseline were independently associated with CTP improvement over time.

MI: Multiple Imputation; MELD: Model of End Stage Liver Disease; CTP: Child-Turcotte-Pugh score; HIV: Human Immunodeficiency Virus; NA: Not Applicable; Log: logarithmic; LV: Liver Volume (mL); BSA: Body Surface Area (m²); SV: Spleen Volume (mL); MELD: Model of End Stage Liver Disease; BMI: Body Mass Index