

A modified EASL-CLIF (mEACLF) criteria that is easier to use and perform better to prognosticate ACLF

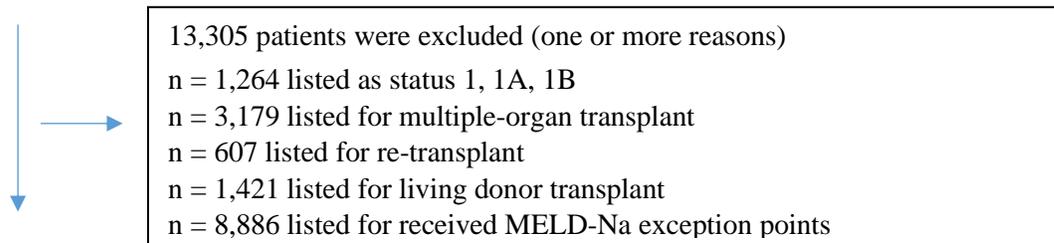
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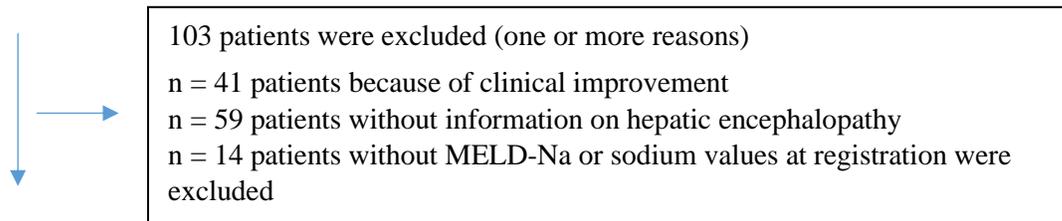
1. Supplementary figure S1: Flow chart of the study population that were included or excluded
2. Supplementary figure S2: Smooth regression curve of GFR and serum creatinine

Supplementary Figure 1: Flow chart of the study population that were included or excluded

UNOS liver dataset at the first time of listing selected as adults (≥ 18 years old) and listed from (Jan 11, 2016 to Aug, 31, 2020) (n = 53,765)

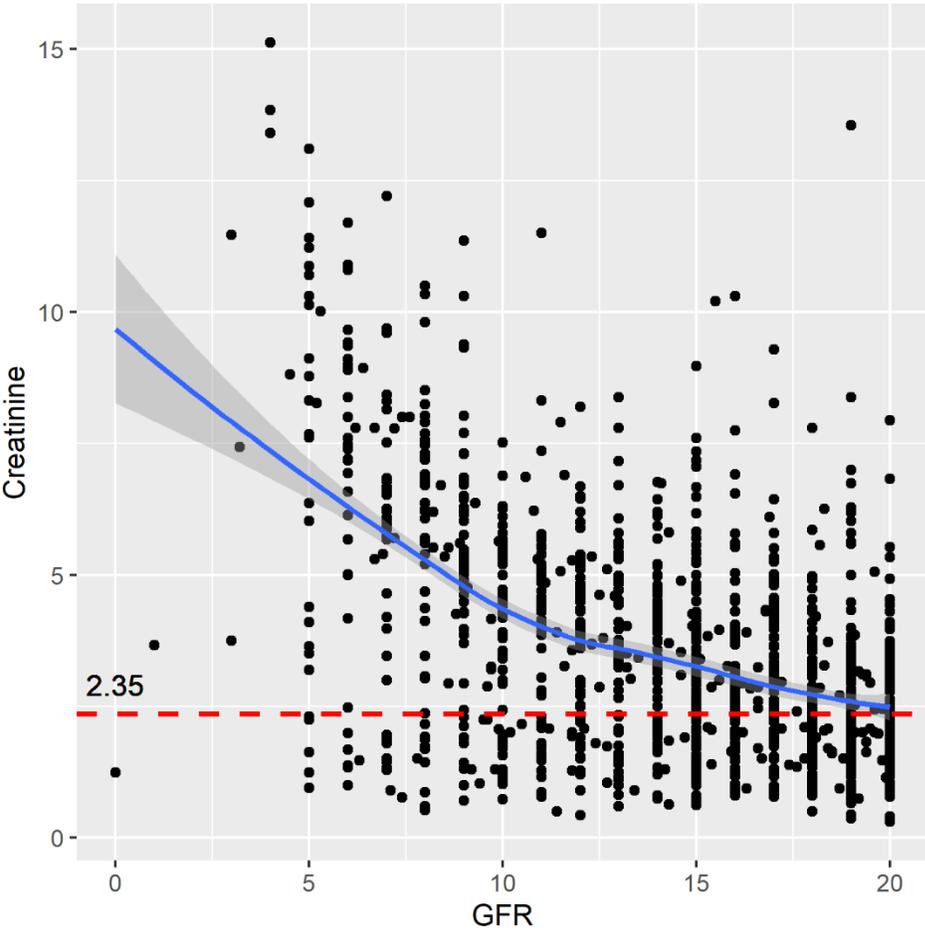


The population on a waiting list was followed-up (n=40,460)



The population on a waiting list was followed-up (n=40,357)

Supplementary Figure 2: Smooth regression curve of GFR and serum creatinine



Supplementary Table 1 Characteristics of patients with and without ACLF by EASL-CLIF criteria

Variable	Response	All (N=40,357)	No ACLF (N=30,300)	ACLF all grades (N=10,057)	p-value
Age	Mean ± SD	55.3 ± 11.0	55.9 ± 10.7	53.3 ± 11.4	<0.001
Gender	F	15167 (38%)	11271 (37%)	3896 (39%)	0.006
	M	25190 (62%)	19029 (63%)	6161 (61%)	
Race	White	28670 (71%)	21993 (73%)	6677 (66%)	<0.001
	Black	2828 (7%)	1904 (6%)	924 (9%)	
	Hispanic	6676 (17%)	4844 (16%)	1832 (18%)	
	Asian	1444 (4%)	1046 (3%)	398 (4%)	
	Others/Unknown	739 (2%)	513 (2%)	226 (2%)	
Etiology	HCV	6654 (16%)	5365 (18%)	1289 (13%)	<0.001
	Alcohol	13988 (35%)	9599 (32%)	4389 (44%)	
	HCV + Alcohol	808 (2%)	685 (2%)	123 (1%)	
	Cryptogenic	2002 (5%)	1468 (5%)	534 (5%)	
	Miscellaneous	16905 (42%)	13183 (44%)	3722 (37%)	
Albumin	Mean ± SD	3.15 ± 0.67	3.13 ± 0.64	3.20 ± 0.74	<0.001
Bilirubin	Mean ± SD	6.9 ± 9.4	4.2 ± 5.2	15.0 ± 13.5	<0.001
INR	Mean ± SD	1.7 ± 0.8	1.5 ± 0.5	2.4 ± 1.21	<0.001
Creatinine	Mean ± SD	1.40 ± 1.24	0.97 ± 0.32	2.69 ± 1.92	<0.001
MELD-Na	Mean ± SD	20.8 ± 9.6	16.9 ± 6.5	32.5 ± 7.8	<0.001
Encephalopathy	None	14427 (36%)	12042 (40%)	2385 (24%)	<0.001
	1-2	22386 (55%)	17124 (57%)	5262 (52%)	
	3-4	3544 (9%)	1134 (4%)	2410 (24%)	
Ascites	Absent	8742 (22%)	7526 (25%)	1216 (12%)	<0.001
	Slight	19521 (48%)	15657 (52%)	3864 (38%)	
	Moderate	12093 (30%)	7116 (23%)	4977 (49%)	
	N/A	1 (0%)	1 (0%)	0 (0%)	
Respiration	N	39558 (98%)	30300 (100%)	9258 (92%)	<0.001
	Y	799 (2%)	0 (0%)	799 (8%)	
Circulatory	N	38491 (97%)	29903 (100%)	8588 (87%)	<0.001
	Y	1342 (3%)	32 (0%)	1310 (13%)	