

# Infection as a predictor of mortality in decompensated liver cirrhosis: exploring the relationship to severity of liver failure

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## Supplemental Digital Content 5

**Grgurevic et al.** Infection as a predictor of mortality in patients with decompensated liver cirrhosis: exploring the relationship to severity of liver failure

**Table S5A.** Testing interactions between liver function scores, i.e., Child-Pugh class, CLiF-OF and MELD and infection in their effects on medium-term mortality. Shown are adjusted HRs for infection at different levels of liver function, and for liver function at different levels of infection.

<b>Model for Child-Pugh class*infection interaction:</b> P for interaction=0.739. Adjustments age, anemia.		
	<b>HCA vs. No Infection</b>	<b>Community vs. No Infection</b>
	<b>HR (95% CI)</b>	<b>HR (95% CI)</b>
At Child-Pugh class B	2.26 (1.01-5.11)	1.03 (0.40-2.50)
At Child-Pugh class C	2.86 (1.53-5.60)	1.60 (0.79-3.31)
<b>Child-Pugh class C vs. B (A)</b>		
	<b>HR (95% CI)</b>	
At No infection	1.08 (0.49-2.41)	
At community acquired infection	1.70 (0.73-4.29)	
At healthcare-associated infection	1.36 (0.70-2.80)	
<b>Model for CLiF-OF score*infection interaction:</b> P for interaction=0.262 (CLiF-OF is median-centered). Adjustments Child-Pugh class, age, anemia		
	<b>HCA vs. No Infection</b>	<b>Community vs. No Infection</b>
	<b>HR (95% CI)</b>	<b>HR (95% CI)</b>
At CLiF-OF score 6	2.51 (1.22-5.30)	0.90 (0.39-2.05)
At CLiF-OF score 8	1.93 (1.13-3.49)	1.08 (0.59-2.05)
At CLiF-OF score 10	1.49 (0.55-4.77)	1.31 (0.45-4.40)
<b>CLiF OF score</b>		
	<b>HR (95% CI)</b>	
At No infection	1.39 (0.98-1.91)	
At community acquired infection	1.53 (1.24-1.88)	
At healthcare-associated infection	1.22 (1.01-1.45)	
<b>Model for MELD score*infection interaction:</b> P for interaction=0.451 (MELD is mean-centered). Adjustments Child-Pugh class, age, anemia.		
	<b>HCA vs. No Infection</b>	<b>Community vs. No Infection</b>
	<b>HR (95% CI)</b>	<b>HR (95% CI)</b>
At MELD score 15	2.36 (1.25-4.52)	0.77 (0.30-1.82)
At MELD score 22.5	1.96 (1.14-3.53)	0.95 (0.51-1.81)
At MELD score 30	1.62 (0.65-4.55)	1.16 (0.40-3.64)
<b>MELD score</b>		
	<b>HR (95% CI)</b>	
At No infection	1.09 (1.01-1.18)	
At community acquired infection	1.11 (1.03-1.19)	
At healthcare-associated infection	1.05 (1.01-1.10)	

**Table S5B.** Estimated adjusted probabilities of survival at 12 months by liver status-by-infection status (derived from models depicted in Table S4A, without interactions, but with liver function indicators as stratification variables).

Infection status	Child-Pugh class		CLiF-OF score			MELD score		
	B	C	6	8	10	<15	15-29	≥30
No infection	77.5%	61.2%	77.4%	59.1%	37.4%	77.5%	66.9%	32.7%
CA infection	71.4%	52.3%	74.4%	54.6%	32.5%	72.5%	60.3%	24.8%
HCA infection	54.2%	31.2%	62.9%	39.1%	17.8%	59.1%	43.9%	11.0%