

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

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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.

| Model for Child-Pugh class*infection interaction: P for interaction=0.739. Adjustments age, anemia. | | |
|---|-----------------------------|-----------------------------------|
| | HCA vs. No Infection | Community vs. No Infection |
| | HR (95% CI) | HR (95% CI) |
| 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) |
| Child-Pugh class C vs. B (A) | | |
| | HR (95% CI) | |
| 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) | |
| Model for CLiF-OF score*infection interaction: P for interaction=0.262 (CLiF-OF is median-centered). Adjustments Child-Pugh class, age, anemia | | |
| | HCA vs. No Infection | Community vs. No Infection |
| | HR (95% CI) | HR (95% CI) |
| 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) |
| CLiF OF score | | |
| | HR (95% CI) | |
| 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) | |
| Model for MELD score*infection interaction: P for interaction=0.451 (MELD is mean-centered). Adjustments Child-Pugh class, age, anemia. | | |
| | HCA vs. No Infection | Community vs. No Infection |
| | HR (95% CI) | HR (95% CI) |
| 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) |
| MELD score | | |
| | HR (95% CI) | |
| 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% |