**Supplementary Table S2.** Covariates and the difference in objective function values (OFV).

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| --- | --- | --- |
| Model No. | Model | ΔOFV |
| Basic model |  |  |
| 0 | No covariate |  |
| Forward addition | 　 |  |
| 1 | Model–0 + age on CL | −19.4 |
| 2 | Model–0 + sex on CL | −1.88 |
| 3 | Model–0 + weight on CL  | −2.96  |
| 4 | Model–0 + Alb on CL | −4.30 |
| 5 | Model–0 + SCr on CL | −21.5 |
| 6 | Model–0 + eGFR on CL | −31.0 |
| 7 | Model–0 + Measured CCr on CL | −50.9 |
| 8 | Model–0 + CG-CCr on CL | −46.3 |
| 9 | Model–0 + CRP on CL | 0.00 |
| 10 | Model–0 + SOFA score on admission on CL | −4.09 |

ΔOFV: Difference in objective function values, CL: Total body clearance, Alb: Albumin, SCr: Serum creatinine, eGFR: Estimated glomerular filtration rate, CG-CCr: Cockcroft–Gault equation for creatinine clearance, CRP: C-reactive protein, SOFA: Sequential organ failure assessment, CCr: Creatinine clearance