

Table 3 Parameter estimates of the final population pharmacokinetic model

| Parameter | Estimate (RSE %) | 95% CI | Bootstrap | |
|---------------------------|---------------------|----------------|-----------------|----------------|
| | | | Mean | 95% CI |
| Fixed effect | | | | |
| Ka (h ⁻¹) | 1.31 (7.2) | 1.13~1.49 | 1.38 (13.7) | 1.09~1.80 |
| CL/F (l h ⁻¹) | 13.8 (4.1) | 12.7~14.9 | 13.8 (3.7) | 12.8~14.8 |
| V1/F (l) | 188 (7.1) | 162~215 | 189 (5.6) | 167~209 |
| Q/F (l h ⁻¹) | 3.96 (14.7) | 2.82~5.10 | 4.04 (16.8) | 2.92~5.53 |
| V2/F (l) | 58.6 (6.9) | 50.7~66.4 | 59.1 (9.1) | 50.0~70.9 |
| Td (h) | 2.17 (4.4) | 1.98~2.36 | 2.22 (7.2) | 1.97~2.56 |
| Alpha | 0.129 (Fixed) | - | - | - |
| F | 1 (Fixed) | - | - | - |
| Ka ~ Food1 | -1.71 (-5.5) | -1.89~-1.52 | -1.72 (-10.5) | -2.09~-1.35 |
| Ka ~ Food2 | -2.40 (-3.7) | -2.58~-2.23 | -2.43 (-7.4) | -2.79~-2.08 |
| CL/F ~ Female | -0.251 (-14.2) | -0.322~-0.181 | -0.250 (-14.6) | -0.326~-0.177 |
| CL/F ~ ALT | -0.0950 (-21.2) | -0.135~-0.0554 | -0.0955 (-15.3) | -0.127~-0.0647 |
| F ~ Food1 | -0.341 (-26.3) | -0.517~-0.166 | -0.312 (-34.9) | -0.523~-0.0904 |
| F ~ Food2 | -0.485 (-31.2) | -0.782~-0.189 | -0.473 (-19.8) | -0.644~-0.263 |
| Td ~ Patient | -0.416 (-10.7) | -0.504~-0.329 | -0.403 (-27.9) | -0.634~-0.192 |
| Random effect | | | | |
| CL/F | 0.485 (3.8) | 0.449-0.521 | 0.483 (5.8) | 0.427~0.538 |
| V/F | 0.736 (6.9) | 0.637-0.834 | 0.729 (11.0) | 0.571~0.886 |
| CL/F ~ V/F | 0.565 (5.1) | 0.509-0.622 | 0.562 (8.1) | 0.473~0.651 |
| Residual error | | | | |
| σ | 0.305 (0.7) | 0.300~0.309 | 0.304 (3.4) | 0.284~0.325 |