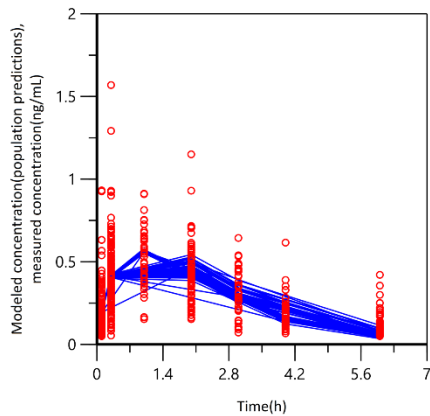
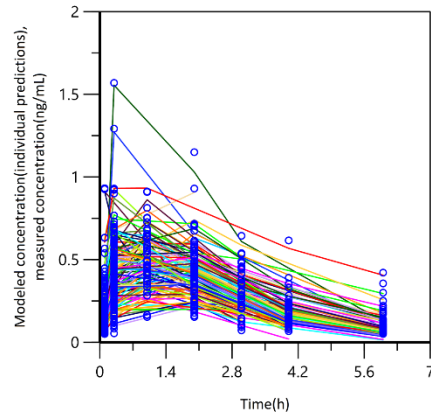


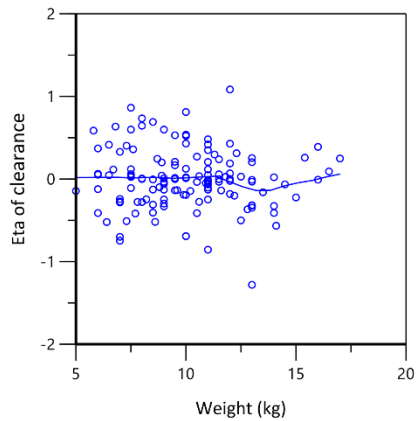
A



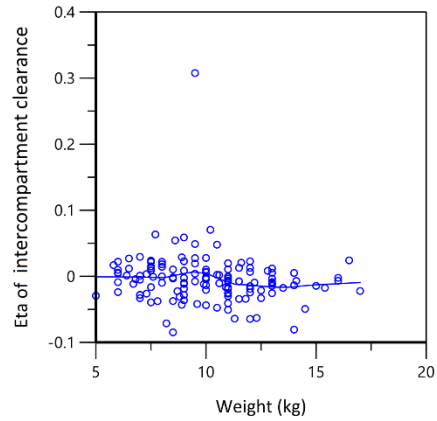
B



C



D



Supplementary Figure 2. Modeled concentration (population predictions), Modeled concentration (individual predictions), measured concentration over time along with fitted curves for individual patients (Figure A, B), and the graphics of post hoc etas for clearance/intercompartment clearance versus weight (Figure C, D). The hollow red circles in Figure A and hollow blue circles in Figure B represent the measured dexmedetomidine concentrations obtained from the pediatric patients. The solid blue lines in Figure A represent the population-predicted concentrations, and the solid lines with a different color in Figure B represent the individual-predicted concentration. The hollow blue circles in Figures C and D represent the post hoc etas

of each patient with a different weight. The solid blue lines represent locally weighted regression (LOESS) fitting.