Table S1. Mean absolute prediction error of the predicted blood demand under different model variants with interaction terms and independent correlation structure, by leave-one-out cross-validation.

|  |  |  |
| --- | --- | --- |
| Model variant |  | Mean absolute prediction error |
| Base model\* |  | 5.792 |
| + female × age, female × age2 (A) |  | 5.800 |
| + female × weight, female × weight2 (B) |  | 5.790 |
| + female × history of splenectomy (C) |  | 5.793 |
| + history of splenectomy × weight, history of splenectomy × weight2 (D) |  | 5.769 |
| + (A), (B) |  | 5.808 |
| + (A), (C) |  | 5.807 |
| + (A), (D) |  | 5.767 |
| + (B), (C) |  | 5.792 |
| + (B), (D) |  | 5.770 |
| + (C), (D) |  | 5.773 |
| + (A), (B), (C) |  | 5.817 |
| + (A), (B), (D) |  | 5.775 |
| + (A), (C), (D) |  | 6.018 |
| + (B), (C), (D) |  | 5.773 |
| + (A), (B), (C), (D) |  | 5.784 |

\*include predictors sex, history of splenectomy, quadratic effects of age and weight only.