**Figure S2. Analysis of RBC recovery following phlebotomy.** Best-fit prediction (line) of the recovery of RBC volume per unit body surface area (median body surface area was 1.89 m$^2$) following phlebotomy using Eqs. (S3.1)-(S3.3) compared with experimental observations (symbols). We fix $b=7$ and obtain $\theta$ from Eq. (S3.3) (see Text S3). We also let $V=5$ L, $v_e=9 \times 10^{-14}$ L, and $N_0$ corresponding to an RBC volume of 2.2 L. $N_{\text{loss}}$ and $P_{\text{max}}$ are used as adjustable parameters. The resulting best-fit estimates are $P_{\text{max}}=8.3 \times 10^{11}$ cells d$^{-1}$ (95% CI: $5.3 \times 10^{11}$-1.0$ \times 10^{12}$ cells d$^{-1}$) and $N_{\text{loss}}$ corresponding to RBC volume of 1.1 L (95% CI: 1.0-1.2 L). The error bars are maximum and minimum values of the measurements across patients. The dotted lines are 95% confidence intervals on the predictions.