

Figure S1. Complete blood counts in healthy human volunteers after single unit transfusions of fresh or older red blood cells

The mean \pm SEM for (A) white blood cell, (B) absolute neutrophil, and (C) platelet counts from pre-transfusion to 72-hours post-transfusion in volunteers transfused with either fresh or older red blood cells. Vertical arrows denote pre-transfusion time points and horizontal dashed lines represent reference range values. The P value is as specified comparing the paired area under the curve of the means of the outcome parameters for the $N=14$ volunteers from 0- to 24-hours after the fresh and older transfusions.

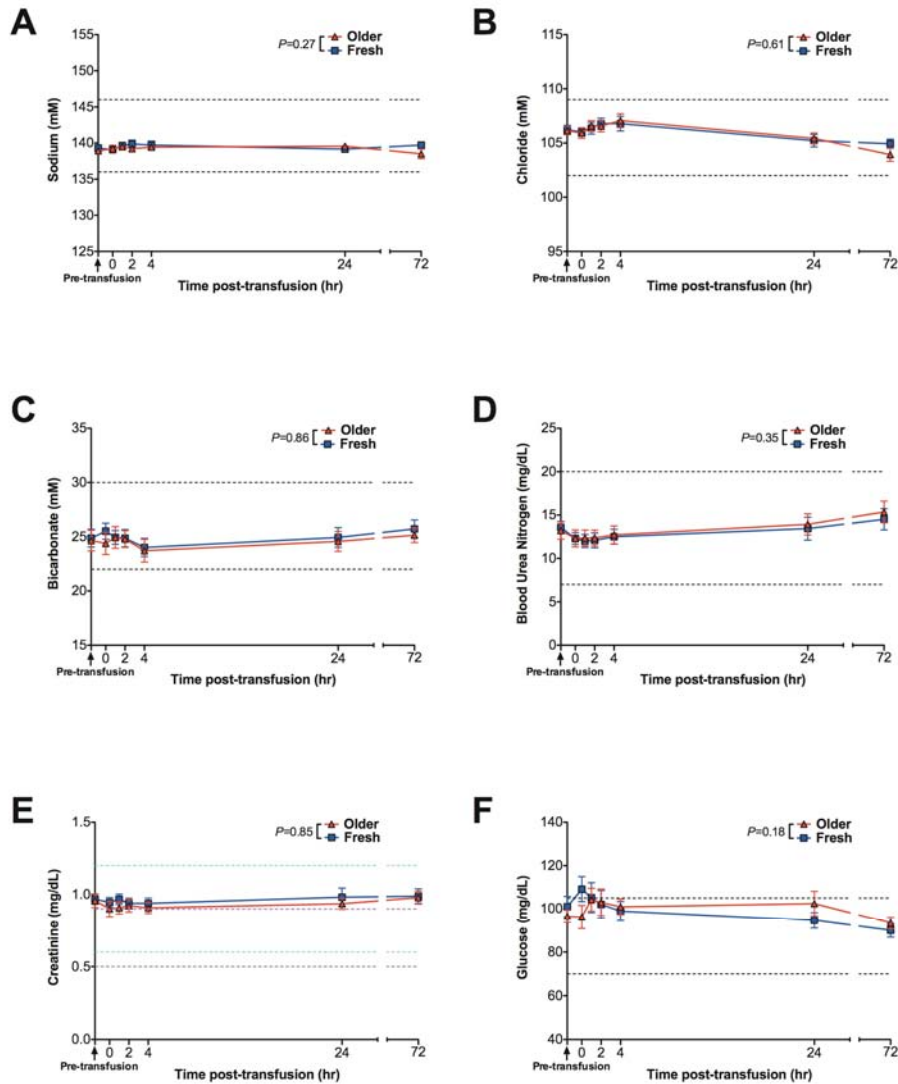


Figure S2. Basic metabolic parameters in healthy human volunteers after single unit transfusions of fresh or older red blood cells

The mean \pm SEM for serum (A) sodium, (B) chloride, (C) bicarbonate, (D) blood urea nitrogen, (E) creatinine, and (F) glucose from pre-transfusion to 72-hours post-transfusion in volunteers transfused with either fresh or older red blood cells. Vertical arrows denote pre-transfusion time points and horizontal dashed lines represent reference range values. The *P* value is as specified comparing the paired area under the curve of the means of the outcome parameters for the N=14 volunteers from 0- to 24-hours after the fresh and older transfusions.

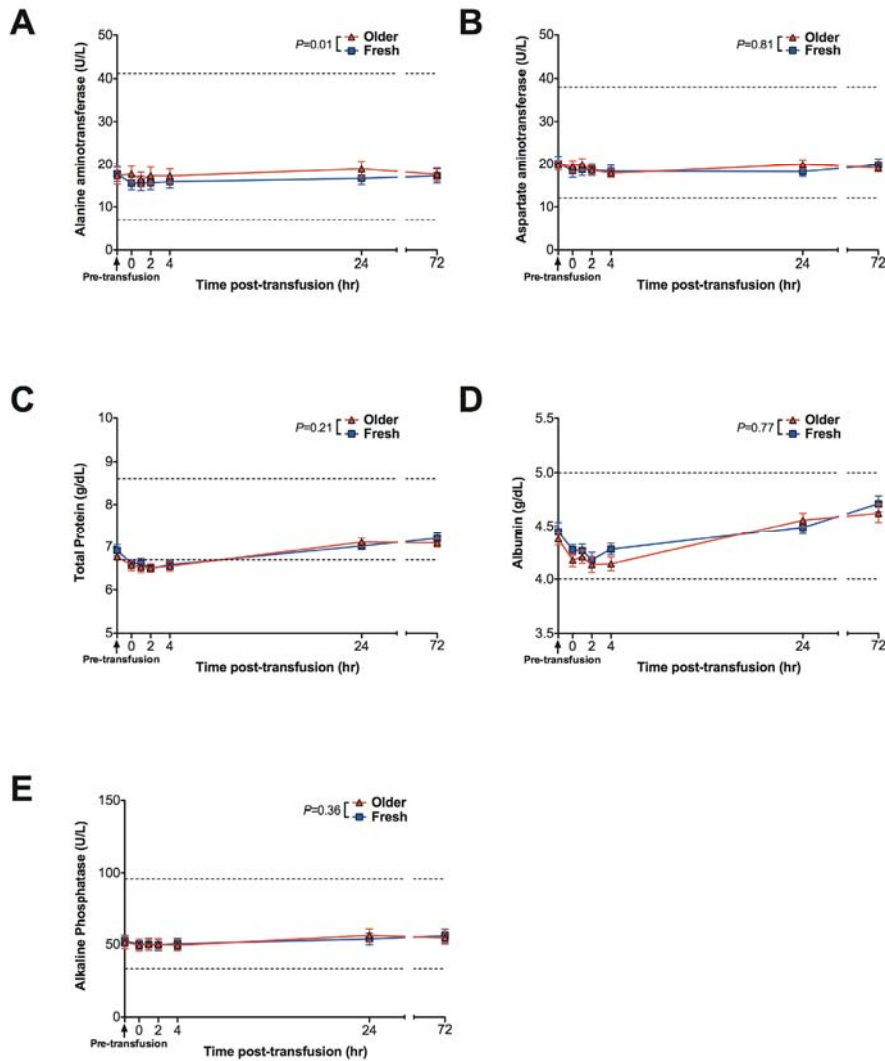


Figure S3. Liver function parameters in healthy human volunteers after single unit transfusions of fresh or older red blood cells

The mean \pm SEM for serum (A) alanine aminotransferase, (B) aspartate aminotransferase, (C) total protein, (D) albumin, and (E) alkaline phosphatase from pre-transfusion to 72-hours post-transfusion in volunteers transfused with either fresh or older red blood cells. Vertical arrows denote pre-transfusion time points and horizontal dashed lines represent reference range values. The *P* value is as specified comparing the paired area under the curve of the means of the outcome parameters for the N=14 volunteers from 0- to 24-hours after the fresh and older transfusions.