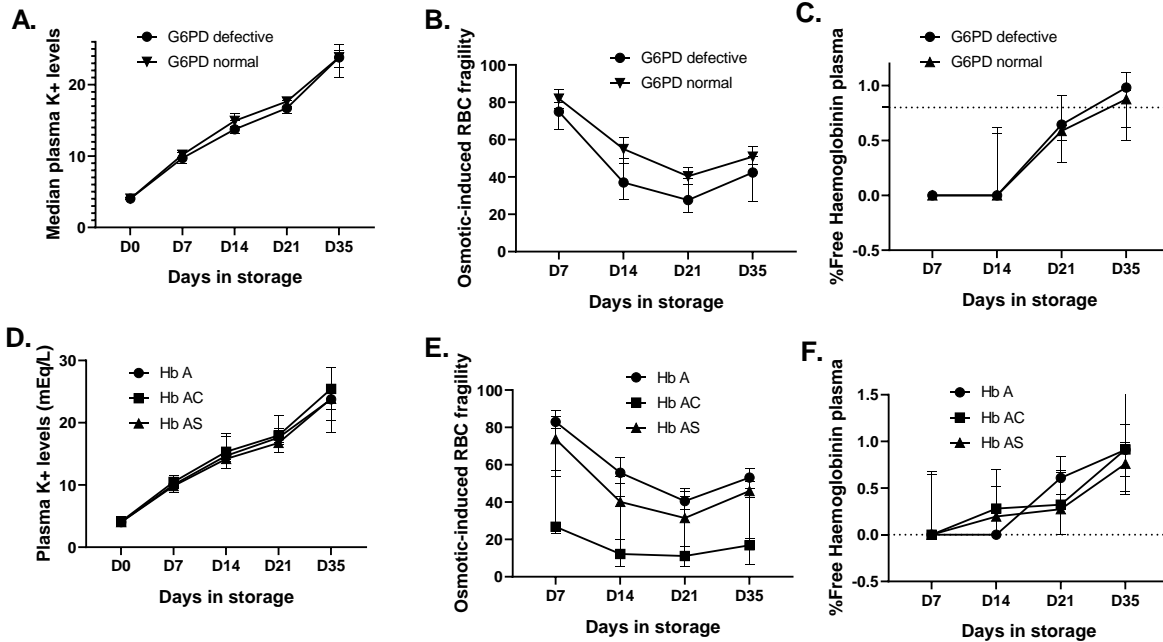


Supplementary data

Supplementary figure S1: Line graph showing the changes storage lesions with respect to days in storage



Supplementary figure S1: Line graph showing the changes storage lesions with respect to days in storage. Figures A, B, and C each depicts storage lesions quantified by changes in plasma potassium (A), osmotic-induced red cell fragility (B) and %free plasma haemoglobin (C) stratified per G6PD status of donated blood units. D, E and F each depicts storage lesions quantified by changes in plasma potassium (D), osmotic-induced red cell fragility (E) and %free plasma haemoglobin (F) stratified per inherited haemoglobin type of donated blood units. All figures are plotted using median with 95% confidence intervals.

Supplementary file S2: Stratification of donor units based on %Hb F levels.

Variable	Day					P-value
	Day 0	Day 7	Day 14	Day 21	Day 35	
Plasma K⁺ levels						
%Hb F < 2.5	4.050	10.110	14.200†	17.600†	23.990†	<0.0001
%Hb F ≥ 2.5	4.030	10.020†	14.740†	17.430†	23.690†	<0.0001
p-value	ns	ns	ns	ns	ns	
Osmotic-induced lysis						
%Hb F < 2.5	ND	79.770	40.260†	28.390†	48.340†	<0.0001
%Hb F ≥ 2.5	ND	79.620	53.960†	39.810†	49.070†	<0.0001
p-value		ns	ns	ns	ns	
Free haemoglobin						

%Hb F<2.5	ND	0.000	0.000	0.3990	0.901†	<0.0001
%Hb F≥2.5	ND	0.000	0.000	0.619†	0.857†	<0.0001
p-value		ns	ns	ns	ns	

Hb F = fetal haemoglobin; ND means not determined; ns means not significant; † indicates that median value significantly differed from day 0 (K+ levels), or day 7 (for osmotic fragility or %free haemoglobin); “ns” means not statistically significantly different; Statistical significance was estimated per each %Hb F category in relation to days of storage by means of Friedman’s repeated measure test with Dunn’s multiple correction; Across the two %Hb F stratification, statistical differences within each day was calculated using Mann-Whitney test.