

Supplementary Online Content

Holcomb JB, Tilley BC, Baraniuk S, et al; for the PROPPR Study Group. Transfusion of plasma, platelets, and red blood cells in a 1:1:1 vs a 1:1:2 ratio and mortality in patients with severe trauma: the PROPPR randomized clinical trial. *JAMA*. doi:10.1001/jama.2015.12

eTable 1. 30-day primary outcomes by treatment group: a sensitivity analysis under the intent-to-treat principle

eTable 2. Resuscitation products by treatment group up to 24 hours after admission

eFigure. Total blood products transfused up to 24 hours after admission by treatment group

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. 30-Day Primary Outcomes by Treatment Group: A Sensitivity Analysis Under the Intent-to-Treat Principle¹

Imputation	Group 1:1:1 (xxx)	Group 1:1:2 (x)		Group 1:1:1 (N = 338)	Group 1:1:2 (N = 342)	Difference in % (95% CI)	Adj RR (95% CI); p-value²
Combination	(111)	(0)	n (%)	75 (22.2)	90 (26.3)	-4.1 (-10.6, 2.3)	0.84 (0.64, 1.10); 0.21
Combination	(111)	(1)	n (%)	75 (22.2)	89 (26.0)	-3.8 (-10.3, 2.6)	0.85 (0.65, 1.11); 0.24
Combination	(110)	(0)	n (%)	76 (22.5)	90 (26.3)	-3.8 (-10.3, 2.6)	0.85 (0.65, 1.11); 0.24
Combination	(011)	(0)	n (%)	76 (22.5)	90 (26.3)	-3.8 (-10.3, 2.6)	0.85 (0.65, 1.11); 0.24
Combination	(101)	(0)	n (%)	76 (22.5)	90 (26.3)	-3.8 (-10.3, 2.6)	0.85 (0.65, 1.11); 0.24
Combination	(110)	(1)	n (%)	76 (22.5)	89 (26.0)	-3.5 (-10.0, 2.9)	0.86 (0.66, 1.13); 0.28
Combination	(011)	(1)	n (%)	76 (22.5)	89 (26.0)	-3.5 (-10.0, 2.9)	0.86 (0.66, 1.13); 0.28
Combination	(101)	(1)	n (%)	76 (22.5)	89 (26.0)	-3.5 (-10.0, 2.9)	0.86 (0.66, 1.13); 0.28
Combination	(100)	(0)	n (%)	77 (22.8)	90 (26.3)	-3.5 (-10.0, 2.9)	0.86 (0.66, 1.13); 0.28
Combination	(010)	(0)	n (%)	77 (22.8)	90 (26.3)	-3.5 (-10.0, 2.9)	0.86 (0.66, 1.13); 0.28
Combination	(001)	(0)	n (%)	77 (22.8)	90 (26.3)	-3.5 (-10.0, 2.9)	0.86 (0.66, 1.13); 0.28
Combination	(100)	(1)	n (%)	77 (22.8)	89 (26.0)	-3.2 (-9.7, 3.2)	0.87 (0.67, 1.14); 0.32
Combination	(010)	(1)	n (%)	77 (22.8)	89 (26.0)	-3.2 (-9.7, 3.2)	0.87 (0.67, 1.14); 0.32
Combination	(001)	(1)	n (%)	77 (22.8)	89 (26.0)	-3.2 (-9.7, 3.2)	0.87 (0.67, 1.14); 0.32
Combination	(000)	(0)	n (%)	78 (23.1)	90 (26.3)	-3.2 (-9.7, 3.2)	0.88 (0.67, 1.14); 0.32
Combination	(000)	(1)	n (%)	78 (23.1)	89 (26.0)	-2.9 (-9.4, 3.5)	0.89 (0.68, 1.15); 0.37

¹ The table shows the frequency, proportion, difference in proportion of deaths, and adjusted RR for each of 16 possible combinations of 30-day mortality outcomes for the 4 patients with missing values (0=dead, 1= alive). There were 3 missing in the 1:1:1 group and 1 missing in the 1:1:2 group.

² Mantel-Haenszel test for binary outcomes measured from randomization, adjusting for site.

eTable 2. Resuscitation Products by Treatment Group up to 24 hours after Admission

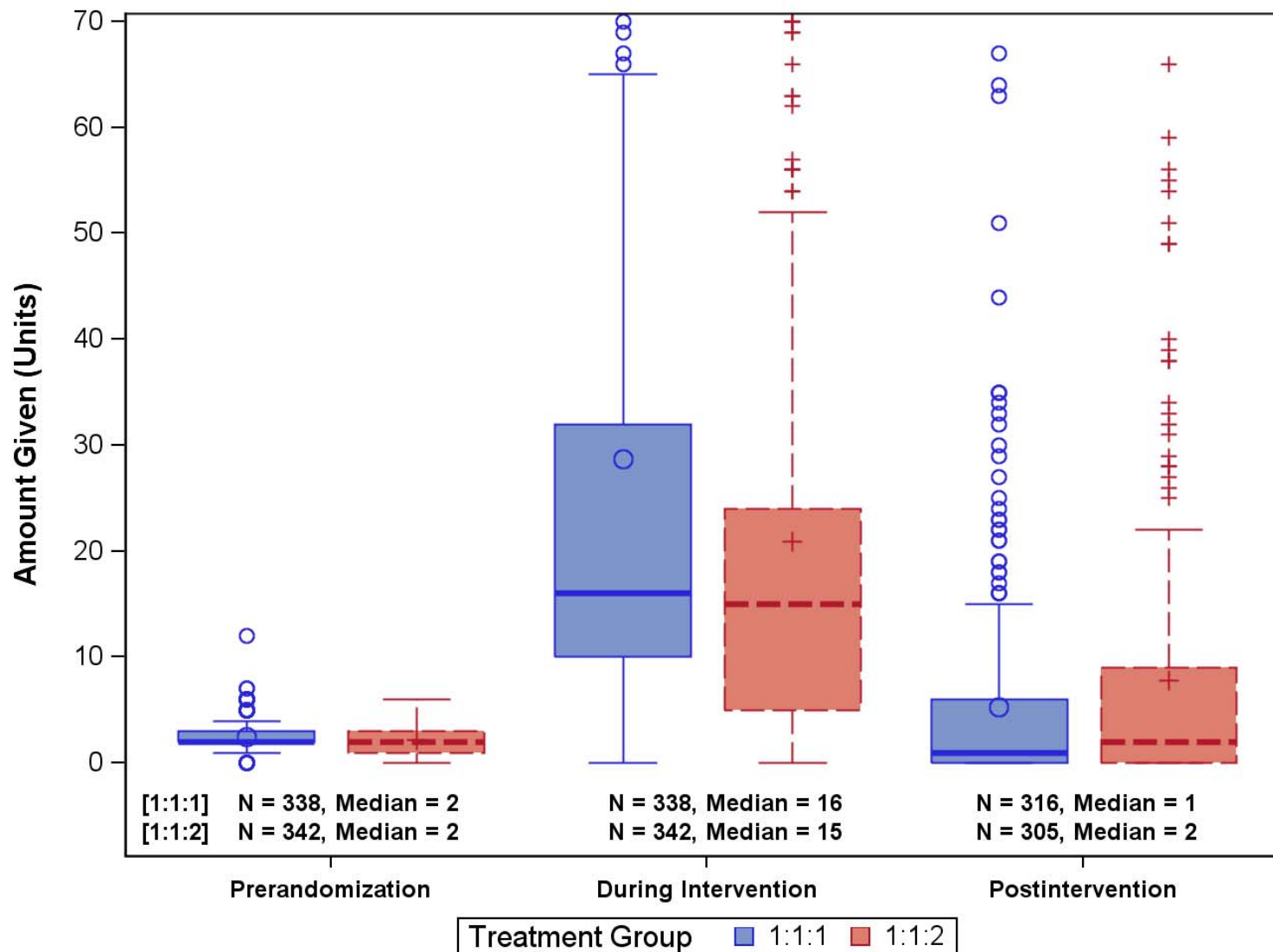
Resuscitation up to 24 hours after Admission¹		Group 1:1:1 (N = 338)	Group 1:1:2 (N = 342)	p-value²
Plasma (units)	Median	7 (3,13)	5 (2,10)	<.001
	>0, n (%)	325 (96.2)	320 (93.6)	
Platelets (units) ³	Median	12 (6,18)	6 (0,12)	<.001
	>0, n (%)	333 (98.5)	205 (59.9)	
RBC (units)	Median	9 (5,15)	9 (6,16)	0.30
	>0, n (%)	338 (100)	341 (99.7)	
Cryoprecipitate (units)	Median	0 (0,0)	0 (0,9)	0.01
	>0, n (%)	73 (21.6)	100 (29.2)	
Crystalloids (liters)	Median	6.3 (3.8,9.5)	6.6 (3.5,10.5)	0.58
	>0, n (%)	333 (98.5)	338 (98.8)	
Colloids (liters)	Median	0 (0,0.3)	0 (0,0.3)	0.70
	>0, n (%)	90 (26.6)	88 (25.7)	
Tranexamic Acid (TXA)	>0, n (%)	64 (18.9)	68 (19.9)	
Other Procoagulants	>0, n (%)	19 (5.6)	15 (4.4)	

¹ For all Medians in table, numbers in parentheses represent the 25th and 75th percentiles

² van Elteren test for medians, adjusting for site

³ Five or 6 unit pools of whole blood-derived platelets were considered equivalent to a unit of apheresis platelets (e.g., an adult dose of platelets).

eFigure. Total Blood Products Transfused up to 24 hours after Admission by Treatment Group



1 Prerandomization blood products include those given pre-hospital.

2 The conventions of this boxplot are as follows: The lower and upper edges of the boxes are the 25th and 75th percentiles, the whiskers extend to $\pm 1.5 \times$ interquartile range (IQR), and the points outside are the outliers. The thick line inside the box represents the median and symbol is the mean.

3 Five or six unit pools of whole blood-derived platelets were considered equivalent to a unit of apheresis platelets (e.g., an adult dose of platelets).