

**Table 4S:** Factors that affect mortality after massive transfusion in cardiac surgery, published in the literature.

Variable	Studies							
	Dyke et al <sup>29</sup>	HR / OR, [95% confidence interval], (p)	Doussau et al <sup>3</sup>	HR, [95% confidence interval], (p)	Karkouti et al <sup>30</sup>	OR, [95% confidence interval], (p)	Karkouti et al <sup>34</sup>	OR, [95% confidence interval], (p)
Severity of bleeding	UDPB class	2.18, [1.55-3.07], (<0.1 x 10 <sup>-3</sup> )	-	-	> 5 units RBC / 24h	8.1, [3.9-17.0], (<0.1 x 10 <sup>-3</sup> )	-	-
EuroSCORE	-	-	3.6-5.9 vs. ≤3.6 5.9-9.5 vs. ≤3.6 9.5-18.3 vs. ≤3.6 >18.3 vs. ≤3.6	0.9, [0.3-3.5], (<10 <sup>-3</sup> ) 0.8, [0.2-2.5], (<10 <sup>-3</sup> ) 1.8, [0.5-6.3], (<10 <sup>-3</sup> ) 2.5, [0.9-6.7], (<10 <sup>-3</sup> )	-	-	-	-
Preoperative INR	-	-	INR ≥ 1.2 vs. < 1.2	1.7, [1.2-2.5], (10 <sup>-2</sup> )	INR > 1.2	1.9, [1.2-3.0], (<0.4 x 10 <sup>-2</sup> )	-	-
aPTT ratio	-	-	aPTT ratio > 1.2 vs. ≤ 1.2	1.6, [1.2-2.2], (10 <sup>-2</sup> )	-	-	-	-
RBC transfusion	-	-	5-6 units (vs. ≤4) ≥7 units (vs. ≤4)	2.2, [1.3-3.7], (<10 <sup>-3</sup> ) 2.9, [1.6-5.2], (<10 <sup>-3</sup> )	-	-	> 10 units RBC before treatment > 10 RBC with 24h of treatment 6-10 RBC with 24h of treatment	2.4, [1.4-4.0] 8.9, [3.6-22.0] 2.6, [1.3-5.1]
Age	-	-	-	-	≥ 70 years	1.6, [1.1-2.4], (<0.2 x 10 <sup>-3</sup> )	> 50 years	2.6, [1.3-5.4]
Urgent status	-	-	-	-	Urgent surgery	2.0, [1.3-3.1], (<0.2 x 10 <sup>-3</sup> )	-	-
Previous cardiac surgery	-	-	-	-	Yes	2.1, [1.3-3.4], (<0.2 x 10 <sup>-3</sup> )	-	-
Duration of CPB	-	-	-	-	Duration of CPB in minutes	1.007, [1.004-1.011], (<0.1 x 10 <sup>-3</sup> )	In min	1.003, [1.001-1.006]
DHCA	-	-	-	-	Circulatory arrest: Yes	2.4, [1.3-4.3], (<0.5 x 10 <sup>-3</sup> )	-	-
Weaning for CPB	-	-	-	-	Inotropes or IABP	3.0, [1.7-5.6], (<0.2 x 10 <sup>-3</sup> )	-	-
Re-exploration	-	-	-	-	Yes	3.5, [1.7-7.4], (0.6 x 10 <sup>-3</sup> )	-	-
Peri-operative shock	-	-	-	-	Low-output syndrome (CI < 2.2 L/kg/min, ≥ medications or IABP for > 30 min)	10.1, [6.5-15.7], (0.1 x 10 <sup>-3</sup> )	Requiring hemodynamic support Unstable before rFVIIa	2.7, [1.5-4.9] 2.2, [1.3-3.6]
Neurologic status	-	-	-	-	Stroke	13.2, [5.3-33.2], (0.1 x 10 <sup>-3</sup> )	-	-
Renal function	-	-	-	-	RRT	13.8, [8.1-23.3], (0.1 x 10 <sup>-3</sup> )	creatinine > 100 µmol/L in women or > 110 µmol/L in men, or on dialysis	1.7, [1.1-2.8]
Pulmonary complications	-	-	-	-	Pneumonia, ARDS, re-intubation	2.5, [1.3-4.6], (<0.4 x 10 <sup>-3</sup> )	-	-
pH before intervention	-	-	-	-	-	-	pH < 7.2 7.2 ≤ pH < 7.3 7.3 ≤ pH < 7.4	7.9, [2.7-23.3] 3.1, [1.5-6.3] 2.0, [1.1-3.6]

HR: Hazard Ratio, OR: Odds Ratio, UDPB: Universal Definition of Perioperative Bleeding, EuroSCORE: European System for Cardiac Operative Risk Evaluation, INR: International Normalized Ratio, aPTT: Activated Partial Thromboplastin Time, RBC: Red Blood Cells, CPB: Cardio Pulmonary Bypass, DHCA: Deep Hypothermic Circulatory Arrest, IABP: Intra-Aortic Balloon Pump, CI: Cardiac Index, rFVIIa: Recombinant activated Factor VII, RRT: Renal Replacement Therapy, ARDS: Adult Respiratory Distress Syndrome.