

Additional file 9:

Supplement 16: Trial Sequential Analysis

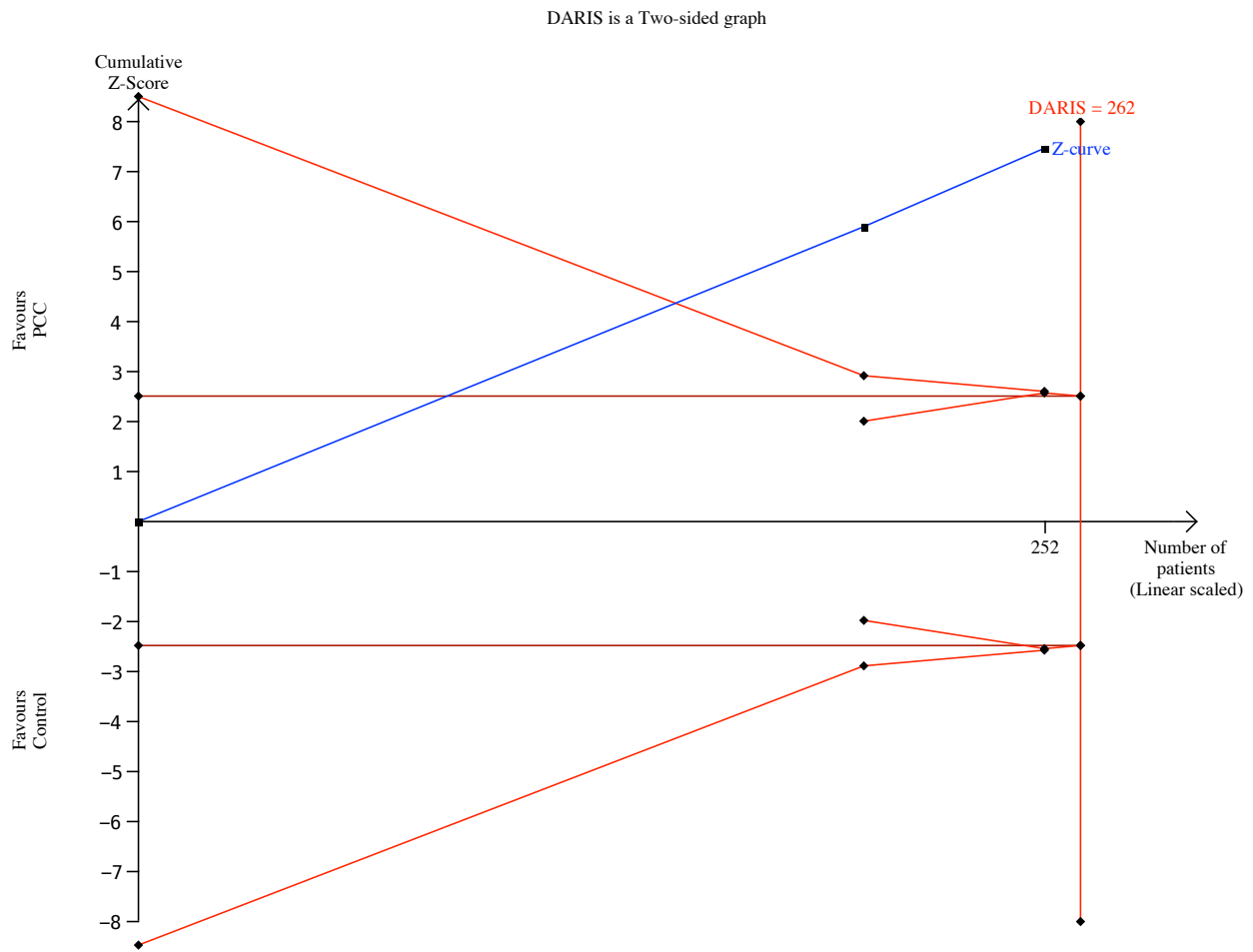
Supplementary table 6: Results of Trial Sequential Analysis of PCC versus fresh frozen plasma

Outcome	No. of trials	RRR	Pc	D ²	DARIS*	% of DARIS obtained	TSA boundaries crossed?	
							Superiority boundaries	Futility boundaries
Primary outcomes								
All-cause mortality	2	20%	9.8%	73%	43,928	0.6%	No	No
Serious adverse events	2	20%	27.3%	0%	3552	7.4%	No	No
Secondary outcomes								
Poor functional outcome	2	20%	50.0%	0%	1414	4.8%	No	No
Thromboembolism	2	20%	6.8%	1%	17973	1.5%	No	No
Allergic reactions	2	20%	1.5%	0%	84540	0.3%	No	No
Explorative outcomes								
Tardy INR correction	2	20%	90.6%	0%	262	96.2%	Yes	NA
Poor haemostatic efficacy	2	20%	38.7%	36%	3358	7.4%	No	No

No. – number; RRR – assumed relative risk reduction (dichotomous outcomes); Pc – Proportion in control group with outcome (dichotomous outcomes); D² – Diversity; DARIS – Diversity adjusted required information size; TSA – Trial sequential analysis.

* α -level (type 1 error risk) of 1.25% and a β -level (type 2 error risk) of 90% used in all calculation of DARIS.

Supplementary figure 1: Trial Sequential Analysis - Tardy INR correction



DARIS – diversity adjusted required information size, PCC – prothrombin complex concentrate, INR – international normalized ratio.

Cumulative Z-value obtained from random-effects meta-analysis. We see that the Lan-DeMets monitoring boundaries are crossed indicating superiority of the PCC in correcting INR. DARIS estimated to 262 based on a projected 20% relative risk reduction, an incidence in the control arm of 90.6%, a type 1 error of 1.25%, a type 2 error of 10% and a diversity (heterogeneity) (D^2) of 0%.