

2019 Annual SHOT Report – Supplementary information

Chapter 17a: Transfusion-Related Acute Lung Injury (TRALI)

Additional tables - not included in the main 2019 Annual SHOT Report

Table 1: Patient characteristics and component details

TRALI				Transfused components					
case number	Sex/age	Diagnosis	Reason transfused	RBC	Plt	FFP	Cryo/ other	Implicated component (concordant antibody)	Interval between transfusion and symptoms
1	F/22	Cardiac surgery	R1 acute bleeding	4	2			RBC	2- 6 hours
2	F/70	Myelodysplasia	R2 Hb<70, stable patient	2				2 x RBC	2- 6 hours
3	F/54	Allogeneic HSCT	P3a To prevent bleeding associated with invasive procedures – Plt <20 x 10*9/L central venous line		2			Pool plt	2- 6 hours



Table 2: Clinical characteristics and radiological features of cases reported as TRALI

	TRALI probability	Revised Consensus	Other risk factors	Symptoms/signs							
TRALI case number				Fever or rigors	Reduced blood pressure	Dyspnoea or tachypnoea	Signs of fluid overload	Reduced pO2	Stable resp condition >12hrs	Chest X ray	
1	Probable	Type II	Cardiac surgery	N	N	Y	N	Y	Υ	Severe pulmonary oedema. ECMO pipes	
2	Probable	Type II	Bronchopneu monia, endocarditis	N	Y	Y	N	Y	Y	Bilateral pulmomary infiltrates/ ARDS picture	
3	Equivocal	Not TRALI	Influenza, VRE bacteraemia	Y	N (rise)	Y	N	Y	Y	There is widespread mixed interstitial and intra-alveolar air space shadowing suggesting an evolving bilateral pneumonic process. The appearances are more confluent, than on the previous chest x-ray dated 31 March. The appearances are not typical of acute pulmonary oedema	



Table 3: Treatment, outcomes, investigation results and likelihood of case being TRALI

	TREATMENT				TRALI INVESTIGATION RESULTS					
TRALI case number	Treatment	ITU admission	Outcome (imputability)	Donor antibody	Patient antibody	Reason given by reporter for suspecting TRALI	TRALI classification			
1	ECMO	Y	Recovered and survived	HLA A2, DR11,DR17	No	Fluid filling was being carefully titrated using the cardiac bypass with continuous assessment by CVP pressure and direct inspection of the heart. No other reason for ECMO requirement	Probable			
2	Ventilated	Y	Recovered and survived	HLA DR4,15,51 B60	No	Timing of onset, lack response to diuretics, no obvious other case of ALI	Probable			
3	Ventilated	Y	Recovered and survived	HLA A2,Bw4	No	Timing of onset	Equivocal			