TRANSFUSION-RELATED ACUTE LUNG INJURY (TRALI)

CANADIAN PAEDIATRIC SURVEILLANCE PROGRAM

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REPORTING INFORMATION (To be completed by the CPSP Senior Coordinator) Report number: Month of reporting: Province: Today's date:

Please complete the following sections for the case identified above. Strict confidentiality of information will be assured.

CASE DEFINITION FOR TRANSFUSION-RELATED ACUTE LUNG INJURY (TRALI)

The diagnosis of TRALI is a clinical and radiological diagnosis and is not dependent on the results of laboratory tests or any proposed pathophysiologic mechanism. Report any child up to and including 18 years of age with TRALI or possible TRALI:

TRALI

Inclusion criteria (all three criteria must be present)

- · New onset of acute lung injury (ALI) during or within six hours of transfusion
- Hypoxemia: $PaO_2/FiO_2 \le 300$ or $SpO_2 < 90\%$ on room air
- · Bilateral infiltrates on frontal chest radiograph

Exclusion criteria

- · Evidence of left atrial hypertension (i.e., circulatory overload)
- · Pre-existing acute lung injury before transfusion
- · Temporal relationship to an alternative risk factor for ALI

Possible TRALI

Same TRALI inclusion criteria and same TRALI exclusion criteria, except that a clear temporal relationship to an alternative risk factor for ALI is **present**, such as:

Direct lung injury
Aspiration
Pneumonia
Severe sepsis
Shock

Toxic inhalation Multiple trauma
Lung contusion Burn injury
Near drowning Acute pancreatitis
Cardiopulmonary bypass

Drug overdose

SECTION 1 – DEMOGRAPHIC INFORMATION

Neoplasic disease

1.1	Date of birth:/	.2 Sex: Male Female			
SECTIO	N 2 – PATIENT BASELINE DATA				
2.1	Weight: kg				
2.2	2 Underlying condition (check all that apply):				
Chronic lung disease (including bronchopulmonary dysplasia)					
	specify:				
	Prematurity	specify gestational age:			
	Transplantation	specify:			
Neurologic disease/encephalopathyHaematologic disease		specify:			
		specify:			
	Cardiac disease/congenital heart defect	specify:			

specify: ____

	Hepatic/gastro-intestinal disease	specify:		
	Inflammatory disease	specify:		
	Renal failure	specify:		
	Immunossuppression	specify:		
	Other (specify)			
	None			
2.3	Primary admission diagnosis: (check all that apply):			
	Infection	specify:		
	Respiratory insufficiency	specify:		
	Multiple trauma	specify:		
	Metabolic/genetic disorder	specify:		
	Transplantation	specify:		
	Poisoning/drug overdose	specify:		
	Elective surgery	specify:		
	Seizure/encephalopathy	specify:		
	Neoplastic disease	specify:		
	Shock/cardiac insufficiency	specify:		
	Inflammatory disease	specify:		
	Haematologic disease	specify:		
	Acute deterioration of chronic disc			
		euse speeny.		
2.4				
.,4		K 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	res spec	cify: Single Multiple Unknown		
TIC	N 3 – TRANSFUSION DATA (most of th available in the chart)	is information can be easily obtained by calling your blood		
3.1	Date of transfusion: / / / / / / YY			
3.2		Time at end of transfusion:		
3.3	Indication for transfusion:			
3.4	Type of blood donation: Allogeneic Autologous			
		nation specify: mother father other		
3.5	* * * * * * * * * * * * * * * * * * * *	ell Frozen plasma		
٠.5	Platelets	specify: apheresis Whole-blood derived		
J.J	i idiciets			
	Cryoprecipita	ate Other (specify)		
3.6	Cryoprecipitate Volume of blood product given:			
3.6 3.7	Cryoprecipita Volume of blood product given: Was the TRALI reaction reported to the	e blood bank? Yes No Unknown		
3.6 3.7	Cryoprecipita Volume of blood product given: Was the TRALI reaction reported to the N 4 – PATIENT CLINICAL DATA (limit of	(approximation in mL) e blood bank? Yes No Unknown data to the first 96 hours after TRALI onset)		
3.6 3.7 C TIC	Cryoprecipita Volume of blood product given: Was the TRALI reaction reported to the N 4 – PATIENT CLINICAL DATA (limit of	(approximation in mL) e blood bank? Yes No Unknown data to the first 96 hours after TRALI onset)		
3.6 3.7 C TIC 4.1	Cryoprecipita Volume of blood product given: Was the TRALI reaction reported to the N 4 - PATIENT CLINICAL DATA (limit of Date of onset of symptoms:///	(approximation in mL) e blood bank? Yes No Unknown data to the first 96 hours after TRALI onset)		
3.6 3.7	Cryoprecipita Volume of blood product given: Was the TRALI reaction reported to the N 4 – PATIENT CLINICAL DATA (limit of Date of onset of symptoms: DD MM Clinical data (check all possible)			
3.6 3. <i>7</i> C TIC 4.1	Cryoprecipita Volume of blood product given: Was the TRALI reaction reported to the N 4 - PATIENT CLINICAL DATA (limit of Date of onset of symptoms:///			

SECTION 4 – PATIENT CLINICAL DATA (limit data to the first 96 hours after TRALI onset) (cont'd)

4.3	Paraclinical data (it availa	·		
	Central venous pr	essure (maximal):		
	Wedge pressure is	f pulmonary artery catheter pres	sent (maximal):	_
	Cardiac dysfunction	on on cardiac ultrasound: Yes	No	
	Worst PaO ₂ /FiO ₂	ratio: or worst O ₂ s	aturation level:	
SECTIO	ON 5 – PATIENT MANAGE	MENT (limit data to the first 96	hours after TRALI onset	
5.1	Transfer to Intensive Care	e Unit: Yes No Wa	s in ICU before TRALI	
5.2	Supplemental FiO ₂ *: ma	ximum level		
5.3	Mechanical ventilation*:	Non-invasive Invasive _	_	
5.4	Inotropes/vasopressors*:	Yes No		
5.5	Fluid resuscitation (bolus	≥10cc/kg): Yes No		
5.6	Diuretics: Yes No _			
5. <i>7</i>	Other (specify):			_
	patient was already on such aximal level of increase: FiO2:	n therapy before TRALI, please i	ndicate if there was an	increase in therapy and specify
	_			
SECTIO	ON 6 - PATIENT OUTCOM	E FOLLOWING TRALI		
6.1	Resolution of symptoms			
	<24 hours 24h-48	h		
6.2	Mechanical ventilation at		of days	
6.3	ICU stay after TRALI read		of days	
6.4	Hospital stay after TRALI	reaction: number of	of days	
6.5	Complications after TRAI			
		nas Cardiac insufficiency		
		lopathy Acute renal failure		
	Death: specify number of	· ———		
6.6		TRALI reaction (as judged by att	ending physician):	
	Immediate life threat: No			
		Yes (specify)		
	Death Unknown _			
SECTIO	ON 7 – REPORTING PHYSI	CIAN		
First	name	Surname		
		Province		Postal code
E-mail		Date completed		

Thank you for completing this form.