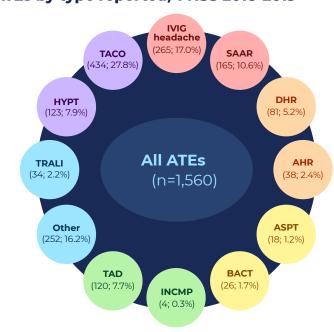
TTISS

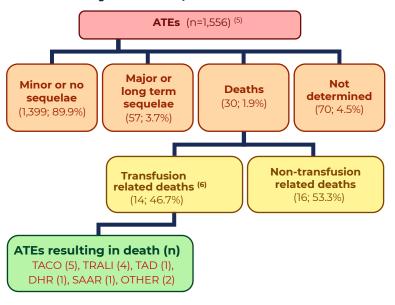
- ◆ Launched in 2001 to capture adverse transfusion events (ATEs) during the transfusion of blood, blood components and plasma derivatives (1)
- Covers over 95% of all transfusion activities in Canada
- **1,560 ATEs** reported during 2018-2019
- 4.8% ATEs were grade 3 (life-threatening) severity (2)
- ◆ 0.9% of ATEs resulted in transfusion-related death
- 5 Deaths per million units of blood components transfused per year

Note: Rates for plasma derivatives transfused are not provided due to unavailability of denominator data

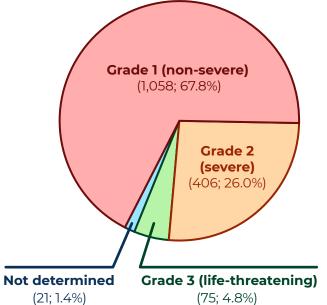
ATEs by type reported, TTISS 2018-2019 (3)



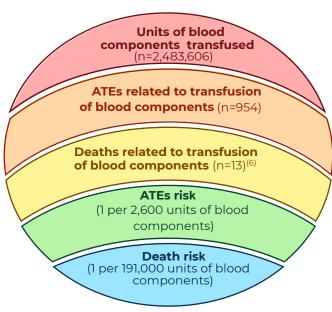
ATEs by outcome, TTISS 2018-2019 (4)



ATEs (n=1,560) by severity, TTISS 2018-2019



Risks of ATEs and death from blood components transfused. TTISS 2018-2019



SUMMARY

- TACO and TRALI are the leading causes of
- Risk of transfusion related-death is very low in Canada

ABBREVIATIONS

TACO: Transfusion Associated Circulatory Overload

TRALI: Transfusion Related Acute Lung injury

TAD: Transfusion Associated Dyspnea

AHR: Acute Hemolytic Reaction

HYPT: Hypotensive reaction

DHR: Delayed Hemolytic Reaction

SAAR: Severe Anaphylactic /Anaphylactoid Reaction

ASPT: Aseptic Meningitis

BACT: Bacterial Infection

INCMP: Incompatible Transfusion

- Commission of Inquiry on the Blood System in Canada Krever Report [FREE Full Text]
 The severity level of ATEs can be found here
 Transfusion Transmitted Injuries Surveillance System 2011 2015 Summary Report [FREE Full Text]
- 4) Transfusion Transmitted Injuries Surveillance System , User's Manual Version 3.0 [FREE Full Text]
- 5) A total of 1,560 ATEs cases were reported: including 1,556 (99.7%) cases with the outcome information and 4 (0.3%) with no outcome information
- 6) Transfusion related deaths (n=14): 13 related to transfusion of blood components and 1 related to plasma derivatives

