



**TITLE: Management of Massive Blood Transfusion in the Rural Setting: Guidelines**

**DATE:** 16 June 2014

## **RESEARCH QUESTION**

What are the evidence-based guidelines regarding the management of massive blood transfusion in the rural setting?

## **KEY MESSAGE**

No relevant literature was found regarding the management of massive blood transfusion in the rural setting.

## **METHODS**

A limited literature search was conducted on key resources including PubMed, The Cochrane Library (2014, Issue 5), University of York Centre for Reviews and Dissemination (CRD) databases, Canadian and major international health technology agencies, as well as a focused Internet search. No filters were applied to limit the retrieval by study type. The search was limited to English language documents published between Jan 1, 2009 and Jun 5, 2014. Internet links were provided, where available.

The summary of findings was prepared from the abstracts of the relevant information. Please note that data contained in abstracts may not always be an accurate reflection of the data contained within the full article.

## **RESULTS**

No relevant health technology assessment reports, systematic reviews, meta-analyses, or evidence-based guidelines regarding the management of massive blood transfusion in the rural setting were identified.

References of potential interest are provided in the appendix.

**Disclaimer:** The Rapid Response Service is an information service for those involved in planning and providing health care in Canada. Rapid responses are based on a limited literature search and are not comprehensive, systematic reviews. The intent is to provide a list of sources of the best evidence on the topic that CADTH could identify using all reasonable efforts within the time allowed. Rapid responses should be considered along with other types of information and health care considerations. The information included in this response is not intended to replace professional medical advice, nor should it be construed as a recommendation for or against the use of a particular health technology. Readers are also cautioned that a lack of good quality evidence does not necessarily mean a lack of effectiveness particularly in the case of new and emerging health technologies, for which little information can be found, but which may in future prove to be effective. While CADTH has taken care in the preparation of the report to ensure that its contents are accurate, complete and up to date, CADTH does not make any guarantee to that effect. CADTH is not liable for any loss or damages resulting from use of the information in the report.

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## OVERALL SUMMARY OF FINDINGS

No relevant literature was found regarding the management of massive blood transfusion in the rural setting; therefore, no summary can be provided.

**REFERENCES SUMMARIZED**

**Health Technology Assessments**

No literature identified.

**Systematic Reviews and Meta-analyses**

No literature identified.

**Guidelines and Recommendations**

No literature identified.

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**APPENDIX – FURTHER INFORMATION:**

**Guidelines and Recommendations**

*Evidence-based Guidelines – Setting Unclear*

1. Patient blood management guidelines: module 1 critical bleeding/massive transfusion [Internet]. Canberra: National Blood Authority; 2011. [cited 2014 Jun 12]. Available from: <http://www.blood.gov.au/pbm-module-1>  
See: 3.2 Massive transfusion protocols; component therapy, pages 24-62

*Guidelines with Uncertain Methodology – Setting Unclear*

2. Whyte RK, Jefferies AL, Canadian Paediatric Society, Fetus and Newborn Committee. Red blood cell transfusion in newborn infants. Paediatr Child Health [Internet]. 2014 Apr [cited 2014 Jun 12];19(4):213-22. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4028649>  
See: Recommendations for Clinicians, page 4-5
3. Guideline for red blood and plasma transfusion: a summary [Internet]. Edmonton: Toward Optimized Practice; 2009. [cited 2014 Jun 12]. Available from: [http://www.topalbertadoctors.org/download/424/blood\\_transfusion\\_summary.pdf](http://www.topalbertadoctors.org/download/424/blood_transfusion_summary.pdf)  
See: Plasma Transfusion, page 2  
Multiple Coagulation Deficiency, page 3

*Consensus Guidelines and Position Statements*

4. Hervig T, Doughty H, Ness P, Badloe JF, Berseus O, Glassberg E, et al. Prehospital use of plasma: the blood bankers' perspective. Shock. 2014 May;41 Suppl 1:39-43.  
[PubMed: PM24662780](#)
5. Dzik WH, Blajchman MA, Fergusson D, Hameed M, Henry B, Kirkpatrick AW, et al. Clinical review: Canadian National Advisory Committee on Blood and Blood Products-- Massive transfusion consensus conference 2011: report of the panel. Crit Care [Internet]. 2011 [cited 2014 Jun 12];15(6):242. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3388668>  
See: Practice recommendations for transfusion support of critical bleeding in trauma patients

**Review Articles**

6. Gerhardt RT, Strandenes G, Cap AP, Rentas FJ, Glassberg E, Mott J, et al. Remote damage control resuscitation and the Solstrand Conference: defining the need, the language, and a way forward. Transfusion. 2013 Jan;53 Suppl 1:9S-16S.  
[PubMed: PM23301981](#)
7. Hess JR, Lelkens CC, Holcomb JB, Scalea TM. Advances in military, field, and austere transfusion medicine in the last decade. Transfus Apher Sci. 2013 Dec;49(3):380-6.  
[PubMed: PM23856530](#)

8. Sailliol A, Martinaud C, Cap AP, Civadier C, Clavier B, Deshayes AV, et al. The evolving role of lyophilized plasma in remote damage control resuscitation in the French Armed Forces Health Service. *Transfusion*. 2013 Jan;53 Suppl 1:65S-71S.  
[PubMed: PM23301975](#)

### **Additional References**

#### *Remote Damage Control Resuscitation Protocols*

9. Jenkins D, Stubbs J, Williams S, Berns K, Zielinski M, Strandenes G, et al. Implementation and execution of civilian remote damage control resuscitation programs. *Shock*. 2014 May;41 Suppl 1:84-9.  
[PubMed: PM24662783](#)
10. Strandenes G, De Pasquale M, Cap AP, Hervig TA, Kristoffersen EK, Hickey M, et al. Emergency whole-blood use in the field: a simplified protocol for collection and transfusion. *Shock*. 2014 May;41 Suppl 1:76-83.  
[PubMed: PM24365879](#)