Adult Massive Transfusion Protocol (MTP) for Middlemore Hospital

Background

This protocol has been established to aid in the clinical management of massive ongoing haemorrhage.

Massive haemorrhage is defined as:

one blood volume per 24 hours or half a blood volume in 3 hours or

150ml/min with anticipation of ongoing haemorrhage

Patients who lose more than 30% of their blood volume are at an increased risk of haemorrhagic shock and coagulopathy with life-threatening consequences.

Purpose

The purpose of this protocol is to clarify the order of products supplied during MTP activation

The aim of the protocol is to ensure a rapid supply of products in a predetermined ratio. This is often referred to as "1/1/1" and is designed to mimic fresh whole blood. The prime advantage is a system approach to the timely delivery of Blood and products in a coordinated fashion.

Scope

All medical, nursing and technical staff working within Middlemore Hospital Overview

Document ID:	A164291	CMH Revision No:	3.0		
Service :	Laboratory - Transfusion Service	Last Review Date :	12/12/2016		
Document Owner:	Transfusion Nurse Specialist	Next Review Date:	12/12/2019		
Approved by:	Transfusion Committee	Date First Issued:	18/04/2013		
Counties Manukau Health					

If you are not reading this document directly from the Document Directory this may not be the most current version.

<u>Team Leader Responsibilities</u>

Activate by ringing Blood Bank (Ext 9151) and say "I am activating the Massive Transfusion Protocol"

Notify Lab, send requests on the CMDHB laboratory request form marked URGENT

Make a decision to cease MTP and inform Blood Bank

Blood Bank Responsibilities

Ensure X-match sample processed ASAP after O negative release

Notify Haematologist after issuing MTP Box Four

Thaw next box in advance and await request

Ensure supply of platelets

Contacts MMH

Blood Bank - Ext 59151

Coagulation Lab - Ext 58538

Anaesthetist - *3008

Haematologist - via Switchboard

Additional treatment thresholds

If PR > 1.5 or APTT > 40 consider additional 4 units FFP

If fibrinogen <2g/L consider additional 3U cryoprecipitate

If platelets <75 x10⁹/L consider additional 1 pack platelets

If ionized Calcium <1mmol/L give 10mls calcium

Document ID:

Document Owner:

Department:

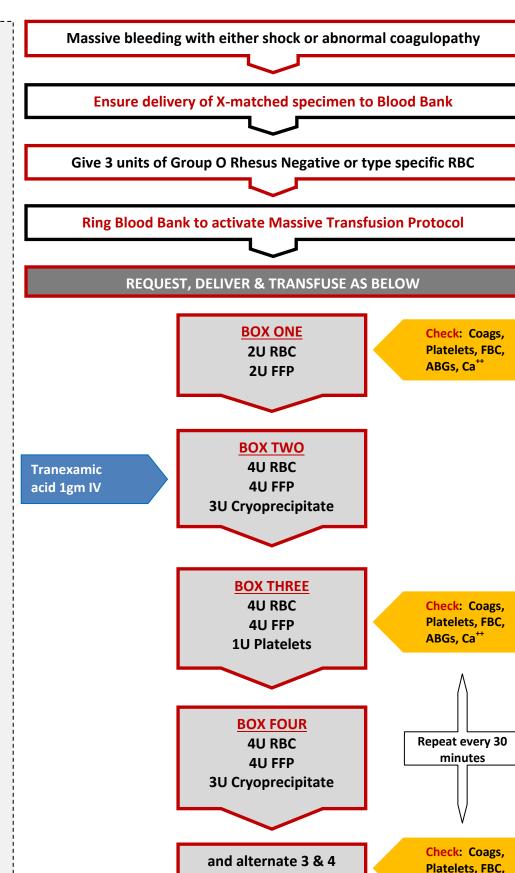
Approved by:

A164291

Blood Bank

Transfusion Nurse Specialist

Transfusion Committee



Version:

Counties Manukau District Health Board

Last Updated:

Next Review Date:

Date First Issued:

ABGs, Ca⁺

5.u

06/03/2015

06/03/2017

03/09/2009

Associated Documents

Other documents relevant to this protocol are listed below:

NZ Legislation	None	
CMDHB Clinical	Transfusion of Red Blood Cells, Platelets,	
Policies	Fresh Frozen Plasma and Cryoprecipitate.	
NZ Standards	None	
Organisational	None	
Policies		
Other related	Transfusion Medicine Handbook (2008)	
documents	BCSH Guidelines on the management of	
	massive blood loss	
	ANZSBT Guidelines for the Administration of	
	Blood Products (2011)	

Definitions

Terms and abbreviations used in this document are described below:

Term/Abbreviation	Description
1/1/1	4 RBC/4 FFP/1 Platelet pool
ABGs	Arterial Blood Gases
Coags	Coagulation panel
FBC	Full Blood Count
Box	Only red cell units will be supplied
	in a box. Platelets and defrosted
	units will be supplied in colour
	coded bags as and when available

Document ID:	A164291	CMH Revision No:	3.0		
Service :	Laboratory - Transfusion Service	Last Review Date :	12/12/2016		
Document Owner:	Transfusion Nurse Specialist	Next Review Date:	12/12/2019		
Approved by:	Transfusion Committee	Date First Issued:	18/04/2013		
Counties Manukau Health					

If you are not reading this document directly from the Document Directory this may not be the most current version.