

# College of Veterinary Medicine Policies and Procedures

Subject: Blood Component Flow Sheet

Section: Small Animal Internal Medicine

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Replaces Policy Dated: 2004

To Be Reviewed Yearly by: AHC Director, Internal

Medicine Service Chief

Source:

Cross Reference:

#### **Blood Component Flow Sheet**

See attachment.

Approved:

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# **Blood Component Flow Sheet**

Patient Name:		Date: Clinicis	an:Sti	ident:
Weight:	kgs / lbs	Blood Component:	Amount:	Donor:
* Has this patie	nt received a prior b	olood transfusion? YES / NO if ye	es, did you cross match: Y	ES / NO
Weight:kgs / lbs Blood Component;Amount:Donor: * Has this patient received a prior blood transfusion? YES / NO If yes, did you cross match: YES / NO * Suggested administration amounts for blood and blood products:  Canine Blood Volume to Administer = 90 x Recipient Wt (kgs) x Desired change in PCV Feline Blood Volume to Administer = 60 mls Donor PCV  * Rule for patients on whole blood: 1ml per 1lb of recipient, to raise the PCV by 1%  * Rule for patients on undiluted PRBCs: 1ml per 1kg to raise PCV by 1%  * Rough Estimates: Whole Blood: 20ml/kg PRBCs: 10ml/kg  Fresh Frozen Plasma: 5-20ml/kg for clotting factors  Fresh Frozen Plasma: 20ml/kg to raise albumin by 0.5mg/dl (consider Hetastarch)  * Suggested administration rates for blood and blood products:  ** All products should be given over 4 to 6 hours unless the patient is critical  ** Normovolemic Rate 3-6ml/kg/hr  ** Hypovolemic Rate 10-20ml/kg/hr  ** Hypovolemic Rate 2-4ml/kg/hr  ** Cardiac/Hypervolemic Rate 2-4ml/kg/hr  Patients initial PCV / TS: Cross Matched: Total Volume to be infused:  Patients Blood Type: Donor's Blood Type: Initial Donor PCV (from the blood bag):  Transfusion pre tx Meds: Dosage: Route: Time:				
*	Canine Blood Volum	ne to Administer = 90 x Recipient	: Wt (kgs) x <u>Desired chang</u>	e in PCV
	Feline Blood Volum	ne to Administer = 60 mls	Dono	r PCV
	10	*	TA .	
* Rule for patie	ents on whole blood	: 1ml per 1lb of recipient, to raise	e the PCV by 1%	
* Rule for patie	ents on undiluted PF	RBCs: 1ml per 1kg to raise PCV by	1%	ar a
**	20		7) #	2F
* Rough Estima	tes: Whole	Blood: 20ml/kg PRBCs	: 10ml/kg	
	Fresh	Frozen Plasma: 5-20ml/kg for <u>clo</u>	tting factors	
e.	Fresh	Frozen Plasma: 20ml/kg to raise a	<u>ılbumin</u> by 0.5mg/dl (cons	ider Hetastarch)
50.	*	*		9
* Suggested ad	ministration rates fo	r blood and blood products:		
	** All products sho	uld be given over 4 to 6 hours unl	ess the patient is critical	8
	** No	rmovolemic Rate 3-6ml/kg/hr		
	** Hyı	ovolemic Rate 10-20ml/kg/hr	vi	
	** Car	diac/Hypervolemic Rate 2-4ml/k	g/hr	
Patients initial I	PCV / TS:	Cross Matched:	Total Volume to be infuse	ed:
Patients Blood	Type: Dor	or's Blood Type: Initia	al Donor PCV (From the blood	bag):
Transfusion pre	e tx Meds:	Dosage: Rou	te: Time:	
Initial Data / 250	% of maintanance ra	otal: Einal Pato (coo	ahova):	

### \*\*Watch for Transfusion Reactions!!!\*\*

(vomitting; diarrhea; increase HR,RR, and temp; angioedema; hypotension; collapse; and hematuria.)

	Start	10min	20min	30min	1hr	2hr	3hr	4hr	5hr	6hr
Actual Time					N		٠			, A
Temp		*							4	
Pulse				\$						
Resp	20000000					**************************************				55
Rate ml/hr										
Total			¥.					Service Services	Negro	
PCV <sup>①②</sup>					8					

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- o 1 Take a PCV of the blood at the end of the IV line after it has gone through the pump and blood filter!!
- o 2 Tape the spun hematocrit tube to its corresponding time at the bottom

(Collect this blood by letting it drip into a **Red top** micro tube then pull this blood into a hematocrit tube)

#### Watch for Transfusion Reactions !!!!

(Vomiting; diarrhea; increase HR, RR, and temperature; angioedema; hypotension; collapse; and hematuria)

- ANY lysing of the RBCs
  - o Compare the PCV tube to the previous hematocrit tubes if darker or more red
    - Call the clinician

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### **Hematocrit Tubes**

(Attach the hematocrit tubes with the corresponding times)

Start	30min	1hr	2hrs	3hrs	4hrs	5hrs	6hrs
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