### KAISER MEDICAL CARE PROGRAM ORANGE COUNTY AREA POLICIES AND PROCEDURES

TITLE:	HEMATOLOGY P&P	INDEX NO:	04-095-01
<b>SECTION:</b>	PROCEDURES	ORGIN DATE:	8/95
SUBJECT:	COLD AGGLUTININ TREATMENT	REVIEW DATE	4/14
		REVISION DATE	5/14, 1/17

## **COLD AGGLUTININ TREATMENT**

### **PRINCIPLE**

The presence cold agglutinin can adversely affect the results of the CBC, i.e. inaccurate results. The parameters affected are RBC, HCT, MCV, MCH and MCHC. This is due to the agglutination of the RBC's in the sample as it cools to room temperature.

# MATERIALS & REAGENTS

37 ° C Drybath and timer Heparinized 75mm Hematocrit tubes Cellpack Micro-hematocrit centrifuge Critoseal Hematology Analyzer

#### **SAFETY**

All specimens should be handled as though capable of transmitting infectious diseases. Wear appropriate personal protective equipment when running patient samples or performing scheduled maintenance. Refer to: Policy and Procedures Safety Manual Infection Control and Procedures 11-085-01.

### **PROCEDURE**

Step	Action					
1.	Incubate the CBC sample by putting it in a 37 ° C Drybath for at leas					
	30 minutes.					
2.	Mix well and rerun the specimen <i>immediately</i> after pre-warming.					
3.	If MCHC is corrected, then the other indices have been corrected for					
	cold agglutinin. Proceed to result the corrected values.					
4.	In cases of very strong cold agglutinins where the MCHC does not					
	correct after warming the sample for more than 1 hour, perform a					
	SPUN HCT.					
5.	If a manual diff is needed, prewarm several slides in the drybath for					
	15-30 minutes before making the smear.					
6.	Report only the WBC, HGB, HCT and PLT count. Enter NOT					
	MEASURED for RBC, MCV, MCH, MCHC and RDW. Then ADD					
	the comment:					
	<ul> <li>"Unable to report RBC and RBC Indices due to strong cold</li> </ul>					
	agglutinins." on ALL parameters reported as NOT MEASURED.					
	• "Hematocrit is a SPUN HCT." for HCT.					

SUBJECT	COLD AGGLUTININ TREATMENT	INDEX NO:	04-095-02

## Document History Page

Change	Changes Made to SOP – describe	Name of	Med. Dir.	Lab	Date
	Changes Wade to SOF – describe		Reviewed/		change
type: New,		responsible		Manager reviewed/	
Major,		person/date	Date		Imp.
Minor etc.		- 11		date	
Major	Updated the format, revised the	Julius			
	principle, added the safety and	Salomon			
	materials/reagents section, revised	5/9/2014			
	the procedure.				
3.4:	1) II 1 ( 1D 1     C ( 1   C	T 1'			
Minor	1) Updated Procedure #6 to clarify	Julius			
	reporting process.	Salomon			
	2) Removed reference section	1/27/2017			

Imp. =Implemented