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	Effective Date:	07-31-2022
	Document Type:	Standard Operating Procedure
	Page Number:	1 of 3
	Department/Section:	Blood Bank Section
	Document Title:	DIRECT COOMB'S TEST / DIRECT ANTIGLOBULIN TEST (DAT)

PURPOSE:

To outline the steps involved in processing Direct Coomb's Test or Direct Antiglobulin Test to evaluate transfusion reactions caused by incompatible blood. The test is in the diagnosis of Autoimmune Hemolytic Anemia and Hemolytic Disease of the Newborn (HDN), Lymphomas, Lupus Erythematosus, Mycoplasma infection and Infectious Mononucleosis

SCOPE:


Applies to all Blood Bank Section Staff of Laboratory Department of Dr. Pablo O. Torre Memorial Hospital (DPOTMH)

PERSON RESPONSIBLE:

Medical Technologist (Medical Laboratory Scientist), Nurses, Clerks

GENERAL GUIDELINES:

1. Attending Physician shall order Direct Coomb's Test / Direct Antiglobulin Test request and shall be encoded in the system by the Nurse-on-duty.
2. A fresh blood sample shall be taken and collected in a lavender top / EDTA blood collecting tube.
3. Specimens collected shall be considered as biohazard material.
4. Proper patient identification shall be strictly observed by identifying the patient by their complete name and birthdate. Tubes shall be properly labeled with patient's complete name for it is crucial and needs emphasis in clinical settings.
5. Impervious gloves and proper protective equipment (PPE) / clothing shall be worn in adherence to Infection Prevention and Control Unit Protocol.

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PROCEDURE:

1. The Medical Technologist prepares a 5% red cell suspension of the patient by washing patient's red cells three (3) times with normal saline solution.
2. The Medical Technologist gets 2 drops of 5% patient's red cell suspension and place on a tube.
3. The Medical Technologist then adds 2 drops of Coomb's reagent (Anti-human globulin).
4. Spin for 1 minute and examine microscopically for agglutination.


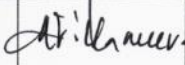


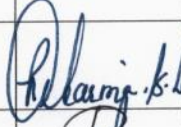


Interpretation:

POSITIVE - With Agglutination

NEGATIVE - No agglutination

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APPROVAL:

	Name/Title	Signature	Date
Prepared by:	MELISSA THERESE B. LABAYEN, RMT Blood Bank Section Head		07.07.2022
Verified by:	MONICA B. VILLANUEVA, RN, RMT, PhD Laboratory Manager		7-7-2022
	MELANIE ROSE B. ZERRUDO, MD, FPSP Chair, Department of Pathology		7-7-2022
Reviewed by:	DENNIS C. ESCALONA, MN, FPSQua Quality Assurance Supervisor		07-07-2022
Recommending Approval by:	ROSARIO D. ABARING, MAN, PhD Ancillary Division Officer		07-07-2022
	FREDERIC IVAN L. TING, MD OIC - Total Quality Division		7-8-22
Approved by:	GENESIS GOLDI D. GOLINGAN President and CEO		9/7/22




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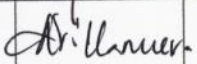




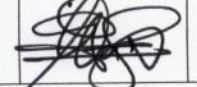
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KEY TASKS	PERSON RESPONSIBLE
1. Prepares a 5% red cell suspension of the patient by washing patient's red cells three (3) times with normal saline solution.	Medical Technologist
2. Gets 2 drops of 5% patient's red cell suspension and place on a tube.	
3. Adds 2 drops of Coomb's reagent (Anti-human globulin)	
4. Spins for 1 minute and examine microscopically for agglutination.	

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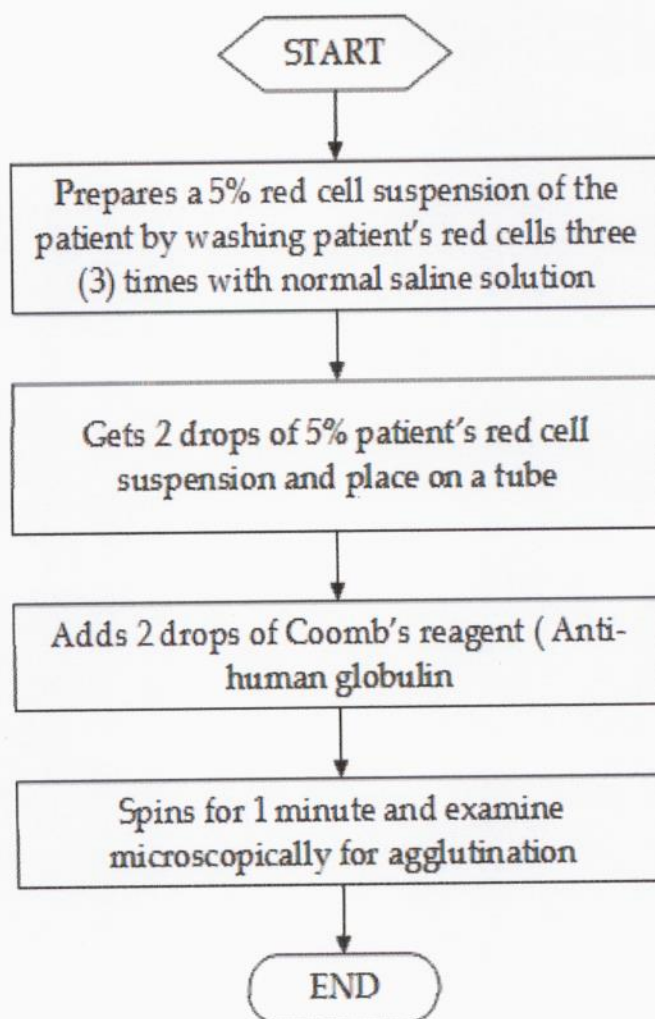



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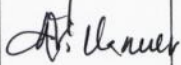


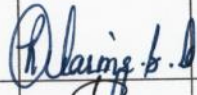

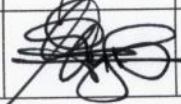
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FLOWCHART



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