 <p>DR. PABLO O. TORRE MEMORIAL HOSPITAL</p>	Document Code:	DPOTMH-E-57-P01-S15
	Effective Date:	06-30-2022
	Document Type:	Standard Operating Procedure
	Page Number:	1 of 3
	Department/Section:	Hematology
	Document Title:	<b>CLOT RETRACTION TIME (CRT)</b>

B.S. Aquino Drive,  
Bacolod City,  
Negros Occidental,  
6100

### **PURPOSE:**

To describe in detail how to prepare and process the Clot Retraction Time test correctly and always in the same manner. It is used in measuring coagulation ability, when more sophisticated methods are unavailable and to evaluate family history of blood clotting disorders, excessive bleeding and bruising.

### **SCOPE:**

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


### **PERSON RESPONSIBLE:**

Medical Technologists (Medical Laboratory Scientists), Pathologists, Medical Doctors, Nurses, Medical Trainees, Laboratory Clerks

### **PROCEDURE:**

1. Hand washing shall be performed before and after the procedure.
2. The wearing of Personal Protective Equipment such as gloves, masks, goggles/face shield and gowns shall be observed in doing the procedure.
3. Requests, unless indicated as "STAT" shall be included in the batch of examinations processed in a first come first serve basis.
4. A water bath or incubator must be at 37C set ready for the procedure.
5. The Medical Technologist collects 5 mL venous blood and dispenses into a centrifuge tube. Place the tube in 37C water bath or incubator and starts stopwatch.
6. Loosen clot gently from the wall of the tube after 10 minutes using thin platinum wire.
7. At the end of 1 hour, carefully remove clot from the tube with a wire hook and measure height of the serum.

NOTE: If serum is grossly contaminated with red cells, centrifuge the tube at 1500 rpm for 10 minutes and record height of serum.

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**CALCULATION:**

$$\frac{\text{Height of serum (mL)}}{\text{Height of whole blood (mL)}} \times 100$$

8. Normal value: more than 40%
9. The Medical Technologist forwards properly the patient's request with the results and his name initials to the Hematology Section for encoding in the system.
10. Results for outpatients are printed at the reception area upon presentation of the Official Receipt (OR) and results for admitted patients are can be viewed and printed out by nurses to its respective stations.
11. Critical CRT results must be reported to the Attending Physician or Nurse immediately.
12. Names and results of patient shall be recorded in the Hematology logbook.
13. Turn-around time for releasing CRT result is within 2 hours.

**REFERENCE:**


<https://www.pathologyoutlines.com/topic/coagulationclotretraction.html>

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	<b>MELANIE ROSE B. ZERRUDO, MD, FPSP</b> Chair, Department of Pathology	<i>[Signature]</i>	7-6-2022
Reviewed:	<b>DENNIS C. ESCALONA, MN, FPSQua</b> Quality Assurance Supervisor	<i>[Signature]</i>	07-06-2022
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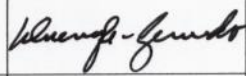

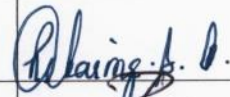




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	Page Number:	1 of 2
	Department/Section:	Hematology
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KEY TASKS	PERSON RESPONSIBLE
1. Encodes the request of the patient to BIZBOX system.	Laboratory Clerks and Nurses
2. Extracts blood sample from the patients.	Medical Technologist/Nurse
3. Ensures sample is acceptable for testing.	
4. Disposes properly and safely biohazardous and infectious wastes and materials.	
5. Forwards properly the patient's request with the results and his name initials to the Hematology Section for encoding in the system.	
6. Processes and analyzes samples.	
7. Releases and validates result thru BIZBOX System.	
8. Records result to Hematology logbooks.	
9. Endorses the patient's results to the patient or doctor.	Laboratory Clerks and Nurses

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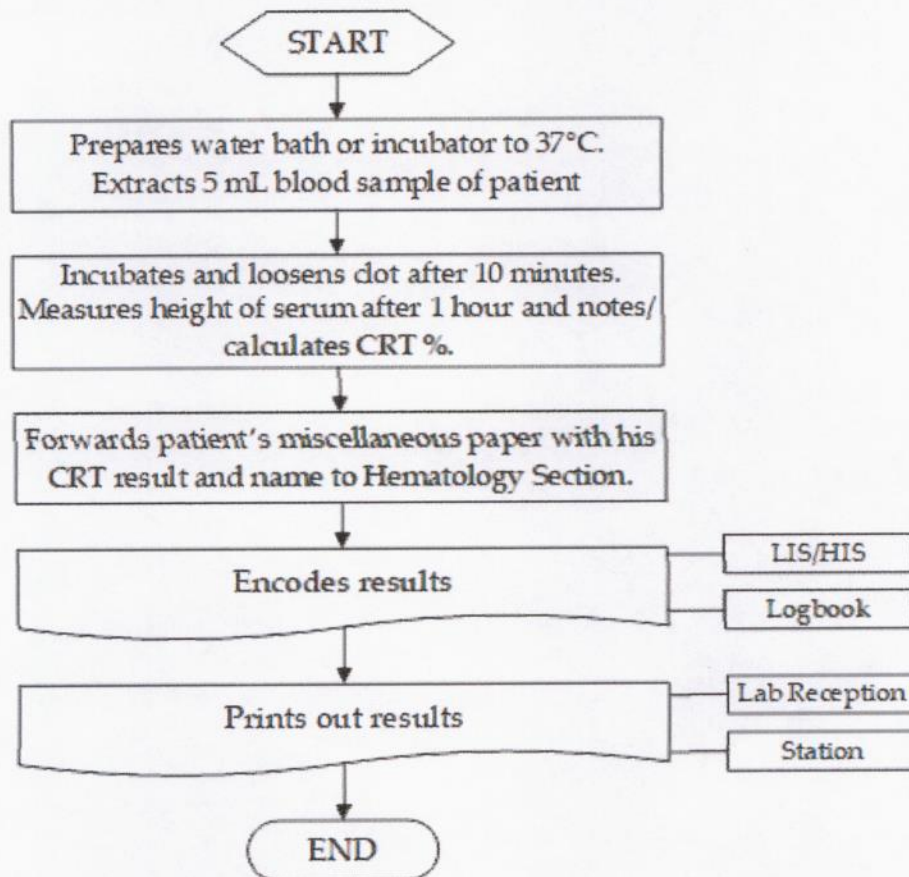


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Page Number:	1 of 2
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## FLOWCHART





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