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SCPMG Laboratory Systems Coagulation Procedure

Performing Pipette Carryover Study on Stago Analyzers

Introduction

Carryover is the contamination of a sample by the sample or reagent used in the analysis immediately before it. This is most often due to contamination by the sampling syringe pipette. This happens and becomes a problem for consecutive analytes with a wide clinical range of analyte concentration. Errors due to carryover of analyte from a sample with a high level of analyte to a subsequent one with a low level is a potential problem with automated analyzers. A minute degree of carry-over could have significant clinical implications.

Scope

This procedure provides instructions for the CLS in evaluating whether carryover effects are present in the Stago analytical instrument.

Policy

- Carryover study shall be performed as part of the initial evaluation of an instrument.
- Carryover study performance shall take place after fluidics part
 replacements on the pipetting assembly of the Stago analyzer/s that are
 neither routine nor would fall under a general preventive maintenance. It is
 not necessary to perform carryover study on other major maintenance or
 repair.
- Representative examples of the wide range of analyte concentration, a low and a high level, are selected for each instrument in the laboratory.
- Carryover effect on the instrument is determined based on established criteria.

Principle

- Carryover testing is performed to help prove or disprove carryover from the integrated sampling syringe pipette system of the Stago analyzer.
- Carryover may be determined by using two samples, one with a high concentration of analyte and one without detectable or low concentration of the analyte.

Equipment

- Stago StaR Max
- Stago Compact Max

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Continued

Reagents

The following contains the list of materials and supplies required.

- Normal Pooled Plasma
- STA-Quality HNF/UFH Level 2
- STA PTT Automate

Materials and Supplies

The following contains the list of materials and supplies required.

- Tubes
- Micro cups
- Pipettes

Safety

Refer to the safety manual for general safety requirements.

Before you begin

- Ensure that the instrument analyzer is done with testing of all patient specimens on board.
- Ensure that latest instance of Quality Control performance is acceptable.

Preparation of Carryover Materials

Prepare the materials needed to perform carryover studies on the Stago analyzer.

- A. Normal Pooled Plasma aliquots
- From the same pool, make two equal aliquots to be named N1 and N2.
- 2) Dispense N2 into five (5) aliquots.
- 3) Label each N2 aliquots as N2-1, N2-2, N2-3, N2-4, and N2-5.
- B. STA-Quality HNF/UFH Level 2 named H
- 1) Dispense H into five (5) aliquots.
- 2) Label each as H-1, H-2, H-3, H-4, H-5.

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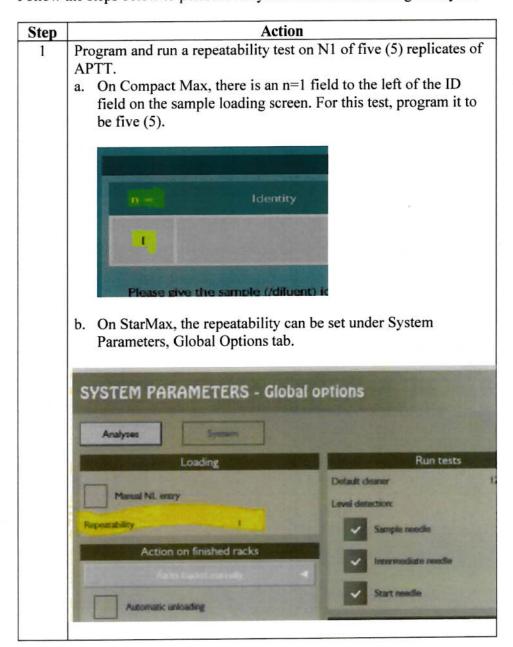
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Continued

Procedure

Follow the steps below to perform carryover studies on the Stago analyzer.



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Continued

Procedure, continuation

Continuation

Step	. <u> </u>	ction			
2	Run APTT for each sample listed below in the order indicated.				
	These can be loaded in micro cups.				
	i. Tube 1 Plasm	Tube 1 Plasma H			
	ji. Tube 1 Plasmi	Tube 1 Plasma N2			
		Tube 2 Plasma H			
	''' ''	Tube 2 Plasma N2			
		Tube 3 Plasma H			
	vi, Tube 3 Plasm	Tube 3 Plasma N2			
	',,,, ',== :::==	Tube 4 Plasma H			
	viii. Tube 4 Plasm	Tube 4 Plasma N2			
	ix. Tube 5 Plasm	a H .			
	x. Tube 5 Plasm	a N2			
3	Calculate the deviation of N1 mean to N2 mean using the following equation: (mean of N1 - mean of N2) x 100				
	Mean of N1				
4	Evaluate the deviation as measu	ure of carryover.			
	IF	Then			
	Deviation is less than 5%	Carryover test passed. No further action is necessary, proceed to patient specimen testing.			
	Deviation is greater than 5%	Carryover test failed. Do not proceed to patient specimen testing. Seek further action from instrumentation service representative (internal and external if applicable). Repeat carryover study if indicated.			

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Evaluation

The deviation of N2 mean from N1 mean should be less than 5%. The value of 5% is the Stago manufacturer's recommended between run (total precision) limit on the APTT normal quality control. The same limit is applicable for the carryover study since it is looking at variance in normal APTT.

Controlled Documents

The following controlled document support this policy.

Stago Carryover Evaluation Form

Non-Controlled Documents

The following non-controlled documents support this policy.

- College of American Pathologist All Common Checklist
- 24-CRD-030 Recommended Carryover Study, Diagnostica Stago, New Jersey, USA.

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Coagulation Regional Docs

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