

Collection and Handling of Cerebrospinal Fluid (CSF) Specimens

Effective Date: March 2013 Version: 1.3

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Applicability This document applies to all Central Zone – ECH personnel of AHS

Laboratory Services and laboratories administered under the Covenant Health Group and the Lamont Health Centre collectively referred to here

AHS Laboratory Services

Document Number: SPS-0029

Laboratory Procedure

as Laboratory Services.

This procedure provides instructions for the collection and handling of Purpose:

Cerebrospinal Fluid for culture, cell count, cytology, virology and

miscellaneous chemistry.

Materials:

Lumbar puncture kit

Sterile tubes (screw top preferred)

lodine swabs

Alcohol swabs

Specimen

Requirements: Aseptically collected CSF fluid in 3 or 4 sterile tubes.

Tube	Test	Volume	Min Volume
#		Required	Required
1	Miscellaneous chemistry – protein, glucose, etc	3-5 mL	0.2 mL/test
2	Gram Stain and Culture	3-5 mL	N/A
3	Cell count and differential	3-5 mL	1 mL
4	Other tests as required – cytology, virology	3-5 mL	1 mL

Procedure: Physician / Nurse notifies Laboratory PRIOR to lumbar puncture (LP) so that the laboratory is prepared to receive the specimen.

Step	Action	Notes
Physician	Physician collects a total of 5 to 20 mL CSF into 3 or 4 sterile tubes.	 The tubes MUST BE LABELLED as to the order of collection (i.e. #1, #2, #3). He/she is responsible for ordering the specific tests required.
Nursing staff	 Enter the test orders requested in MediTech and generate bar code labels. Label the tubes as per Specimen Labelling procedure SPS-0023. Tube #1 – glucose and protein testing Tube #2 – culture 	 The appropriate requisition must accompany the specimens. If glucose and protein tests are requested, serum levels should be requested at the same

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(Authorized individuals are: lab personnel designated in their zone/program or provincial role to produce print copies)



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Step	Action	Notes
	 Tube #3 – cell count Deliver specimens to the laboratory immediately 	time. • Do not refrigerate specimens.
Laboratory	 If only 1 tube is sent, Microbiology tests are performed first, then cell counts and finally chemistry. CSF specimens should be analyzed within one (1) hour from time of collection. Specimens > 1 hour old will be processed but include the comment "Results may be erroneous due to a delay in transit/processing". 	 Do not refrigerate specimens. Send specimens ASAP to testing facility.

References:

- Capital Health Guide to Lab Services, Oct 29, 2007.
- CLSI document H56-A Body Fluid Analysis for Cellular Composition; Approved Guideline Volume 26 Number 26 - 2006

Related

Documents: MIS-0018 Cerebrospinal Fluid Cultures

AHS Specimen Acceptance of Laboratory Samples & Test

Request Policy on Insite

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