Header with SOP unique identifier. version number, version date, page number and total number of pages

Title box with NIDIAG logo. SOP title and project/study title

Standardized section headings "Scope and application", "Responsibilities", "Procedures"

**Bullet lists for** lists with no specific order

**Numbered lists** for specific order of steps

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# SOP Title: Indian Ink - Search for Cryptococci in the CSF

Project/Study: NIDIAG: Evaluation of rapid tests and association with clinical and laboratory predictors for the diagnosis of neglected tropical diseases in patients presenting neurological disorders in rural hospitals in Bandundu. Democratic Republic of the Congo.

# 1. Scope and application

ment provides instructions for the Indian Ink staining technique of cerebrospinal fluid (CSF) to ryptococci in the CSF. Cryptococcus neoformans is a yeast surrounded by a large capsule. oured by the Chineseink, allowing its detection under a microscope at 40x objective.

# Responsibilities

Text in Arial.

Separate section

on safety

Function	Activities	font size 11	
Laboratory technician	CSF sampling Test execution Result interpretation Result recording		

### 3. Procedures

### 3.1 Precautions

All CSF samples are potentially infectious. Respect the universal precautions. USE DISPOSABLE GLOVES DURINGTHE VISUALE PROCEDURE!

#### 3.2 Materials and samples

#### 3.2.1 Materials

- · Non sterile gloves, disposable
- Indian Ink
- Microscope glass slide
- Coverslip
- · Pasteur pipette, plastic
- Inoculation loop
- Alcohol lamp (or butagaz) Microscope, objective 40x
- "Bio-hazard » container

#### 3.2.2. Sample to be examined

Fresh CSF: one drop of the pellet of centrifuged CSF (15 minutes at 3.500 rpm) (ONLY for HIV positive patients, with more than 5 white blood cells/µl of CSF)

#### 3.3 Procedure

- Put on the disposable gloves
- Identify the microscope glass slide with the patient number
- Apply one drop of Indian Ink on the microscope glass slide with a Pastur pipette
- Flame the inoculation loop (until the wire is red over the whole length), to
- 5 Stir the CSF pellet with the inoculation loop
- Take one drop of CSF pellet with the inoculation loop, and mix it with the Indian microscope glass slide
- Flame the inoculation loop (until the wire is red over the whole length) to kill of the gen
- Cover the microscope glass slide with a coverslip
- Observe under the microscope (objective 40x, ocular 10x)

**Highlighted text** (bold font) to put emphasis

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10. The yeast can be seen under the form of round spores, budding, and containing grey granulations. The spores measure between 2 and 10 µm and are surrounded by a large uncoloured capsule, that is visible as a bright halo around the yeast. They may have different sizes (Figure 1).

Clear graphics

Separate section on waste management

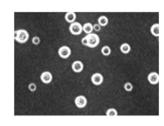


Figure 1. Preparation of CSF coloured with Indian Ink. Cryptococcus neoformans, 40x.

(Note the large capsule surrounding the yeast)

Standardized section heading "Records and archives" to list all documents to be completed

3.4 Result records in the CRF Report as:

- o Presence of east surrounded by a capsule
- Negative
- 3.5 Waste management, cleaning Throw the used microscope glass in a \*P nazard" container.

# 4. Records and archives

Appendixes & forms to be completed		
Number	Title	
1	Laboratory CRF	

Standardized section heading "Document history" to list all revisions and to put the signatures of authors, reviewers and approvers

# 5. Document history

Revision		
	Initial version	

Name and function	Date	Signature		
Author				
Hilde De Boeck Barbara Barbé	31/05/2012	- toler		
Revised by				
Philippe Gillet	12/06/2012			
Approved by				
Veerle Lejon	12/07/2012	04-		