Cytology (Non-gynae) Specimen Management

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People caring for people

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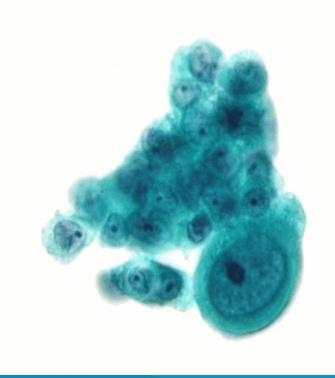
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INTRODUCTION

What is Cytology?

Study of cells in terms of its structure and function.



What is Cytopathology?

Study of cells to determine a cause and nature of a disease.

		OGY VS Cytology
	Histopathology	Cytology
DEFINITION	Histopathology is the examination of tissues related to diseases	Cytology is the study of cells in terms of structure, function and chemistry
STUDYING COMPONENT	Tissues	Individual cells and their nuclei and cytoplasms
INVASIVE AND TRAUMATIC	More invasive and traumatic	Less invasive and traumatic

TYPES OF SPECIMEN FIXATION IN CYTOLOGY

• Rapid fixation of smears is necessary to preserve cytological detail. Any delays affect preservation of cells, which may result in miss diagnosis.

<u>Alcohol fixed smear / Cytospray:</u>

- Immediate fixation is utmost important.
- A minimum fixation of 15 minutes in 95% alcohol.

• Air-dried smears

- Allow slides to completely dry for 15 minutes before placing in slide container.

<u>Cytolyt solution</u>

A clear fixative fluid for the collection of fluid specimens or fine needle aspiration.



Reference guide for specimen fixation LARGE VOLUME **SPECIMENS** Type of samples : Abdominal and pelvic washings, Body cavity fluid (pleural / peritoneal), Urine, Bronchial washing, Gastric / Eosophangeal washing. *500*00 Put in sterile urine container OR Cytolyt solution - Refrigerate (4-6° C) - Ratio : 1 to 1 - Send over using cooler - Room temperature

bag/ice pack.

SMALL VOLUME SPECIMENS

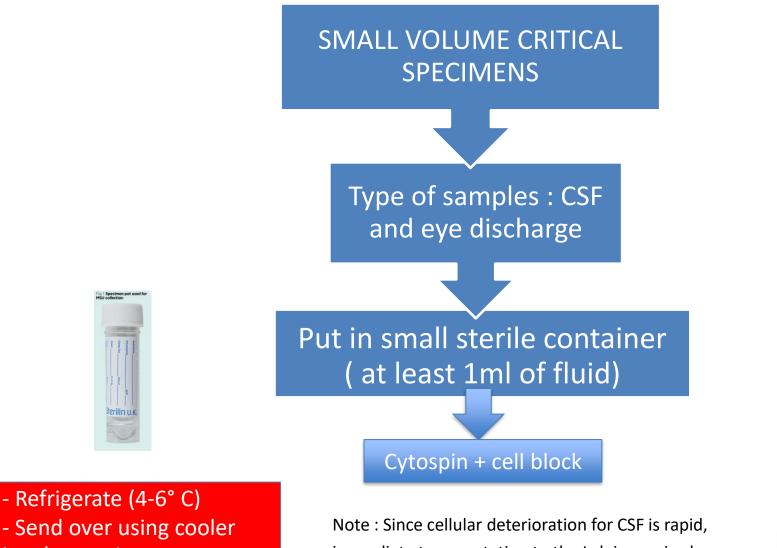
Type of samples : FNA (eg: thyroid, breast, LN, parotid), Breast fluid, Cyst fluid, Synovial fluid.





Rinse in Cytolyt solution





bag/ice pack.

immediate transportation to the Lab is required.



DIRECT SMEARS

Type of samples : FNA (eg: thyroid, breast, LN, parotid), brushings, nipple discharge, vulva smears

95% alcohol : Slides should be immersed in the alcohol for a minimum of 15 minutes

1

2.

OR

Cytospray: Hold the bottle of spray 3-4 inches from the slide and disperse an even layer of fixative over the slide.

Air dry : Leave smears until completely dry before placing in slide holder



Fine Needle Aspiration (FNA) smearing technique

1) Put one drop of aspirated material on a slide.



3) Immediately fix slides in 95% alcohol.

2) Use another slide to make a thin layer of smear.



4) Rinse the balance of aspirated material into Cytolyt.

SPECIMEN LABELLING



On slide, MUST LABEL:

- 1. Patient's name
- 2. DOB / MRN

On slide holder / container, MUST LABEL:

- 1. Patient's name
- 2. DOB / MRN
- 3. Collection date and time
- 3. Nature & Site (Right /Left) of specimen
- 4. Alcohol fixed / air dry (for slide container)



COMMON SPECIMEN REJECTION IN CYTOLOGY.

- 1. The sample and/or form are not properly labeled with following information :
- Nature & Site of specimen (Right or Left side, if any).
- Fixation method (alcohol fixed or air dry).
- 2. No clinical history provided on the form.
- 3. Specimen leaking.

Request order will NOT be processed until corrective action has been taken. TAT for processing of orders that have been rejected will be delayed.





SUMMARY

- The importance of following correct protocols when handling or transporting medical specimens cannot be overstated.
- If the integrity of a specimen has been compromised during any phase— including collection, transport or receiving the result will be compromised.
- Testing errors may lead to misdiagnosis, inappropriate treatment, patient injury or possibly death.
- Every attempt should be made to ensure patient specimens arrive for testing intact, at the correct temperature, with proper documentation in the shortest time possible.

Referral Request List (RRL) for external clients need to be completed before sending to SJMC.



Medical Centre

REFERRAL REQUEST LIST FOR LABORATORY TEST

Please assist us by completing this form to ensure all your request(s) and sample(s) are accounted for and have arrived safely in SJMC.

Kindly send this request list together with your request forms and samples to Reference Business Centre, 4th Floor, Mediplex , Subang Jaya Medical Centre.

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This list will be faxed back to you as a receipt acknowledgement of the safe arrival of your requests and samples in SJMC.

Reference Business Centre, SJMC will fax acknowledgement of sample receipt ONLY for requests that are accompanied with this Referral Request List (RRL).

For enquiries and assistance, please contact Reference Business Centre, SJMC at tel, no: 03-56391927 or fax no: 03-56391985. Source : Reference Business Centre / June 2018

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NON-GYNAE CYTOLOGY FORM

Age / Gender 1 Date of Birth (DD/MM///1) : IC / Perspect No. 2 Location 2								
AL INFORMATION								
Phone No. : Fax No. : Entail Actives : Request Date & Time :								
Collection Date & Time :								
SITE & NATURE OF SPECIMEN								
Site & Nature of Specimen MUST be with specimen be								
Fluid / Sparam / Branchial Washing in startie container								
2 Boondviel ameer: 1 ar dified and 1 immediately immersed in 95% alcohol TZANCK smear air dried for Herpes Simpley Virus inliction Discharge from Eye / Nipple / Tair dried and 1 immersed in 95% alcohol								
Pine Needle Appirate in Cytolyt Solution, 2 amount an dried and zamount learnedistely immersed in 95% Alcohol (total of 4 slides) Fine Needle Appirate in Cytolyt Solution Non Gynae Ruid in Cytolyt Solution								
2 smears an dried and 2 smears immediately inversed in 96% Alcohol (ostal of 4 sides)								
CSF / Linne / Plaid from In stellar container with no preservative								