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Exfoliative Cytology:

Involves the study of cells that spontaneously shed off i.e. as result of continuous growth of epithelial cells

Gynecologic

Non Gynecologic

(Cervical cytology)

Exfoliative

Exfoliative

Cervical cytology

→ Exfoliative Pap smear from

epithelial surface (cervical canal)

→ Obtained by Active collection

Aspiration or brushing

→ The fluids have to be centrifuged

→ the aspirated material directly

used for smears.

- Pap smear is the smear obtained from the female genital tract

- Pap smear is applied for categorising their abnormalities into - non-neoplastic & benign, malignant neoplastic type

- Combined smears contain normal epithelial cells:

- cellular material from the Resp tract maybe obtained by sputum, washing or brushing

→ urinary sediment is used for cytology evaluation of the urinary tract

Collection of samples:

- preparation of pap smear
- liquid based cytology
- collection of sputum
- Bronchial materials: → leverage, washing, brushing (BAL, BV, BS)
- GI cytology
- Urine
- effusion
- cerebrospinal fluid
- semen

Staining of smears:

HPE for wet fixed smears
Romanowsky - air dried smears

- best method - Papanicolaou stain → wet stain smears

HPE

Romanowsky

→ 2957 ethanol
→ Leishman, May-Grunwald Giemsa (MGG), Wright's stain.

Note:

LVS is prepared by scraping lateral vaginal wall

For sputum → 3 specimens should be needed

specimen should be deposited without delay

Host → It is an organism which harbours the parasite or provide the nourishment of it.

- Host can be classified into $\left\{ \begin{array}{l} \text{definitive} \\ \text{intermediate} \end{array} \right\}$ host.

definitive → where the parasite undergoes sexual cycle or where the Adult parasite inhabits.

intermediate → where the parasite undergoes asexual cycle or where the larva inhabits.

eg: *Entamoeba histolytica*
Plasmodium

Non bile stained eggs:

→ eggs of most of intestinal parasites when they pass through intestine are stained by bile. The exceptions being *Entamoeba*, *hookworms*, *Hymenolepis*, *nana*, their eggs are not stained.

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more