

CYTOLOGY – THE STUDY OF THE STRUCTURE AND FUNCTION OF CELLS.

BY SAMANTHA ZHANG

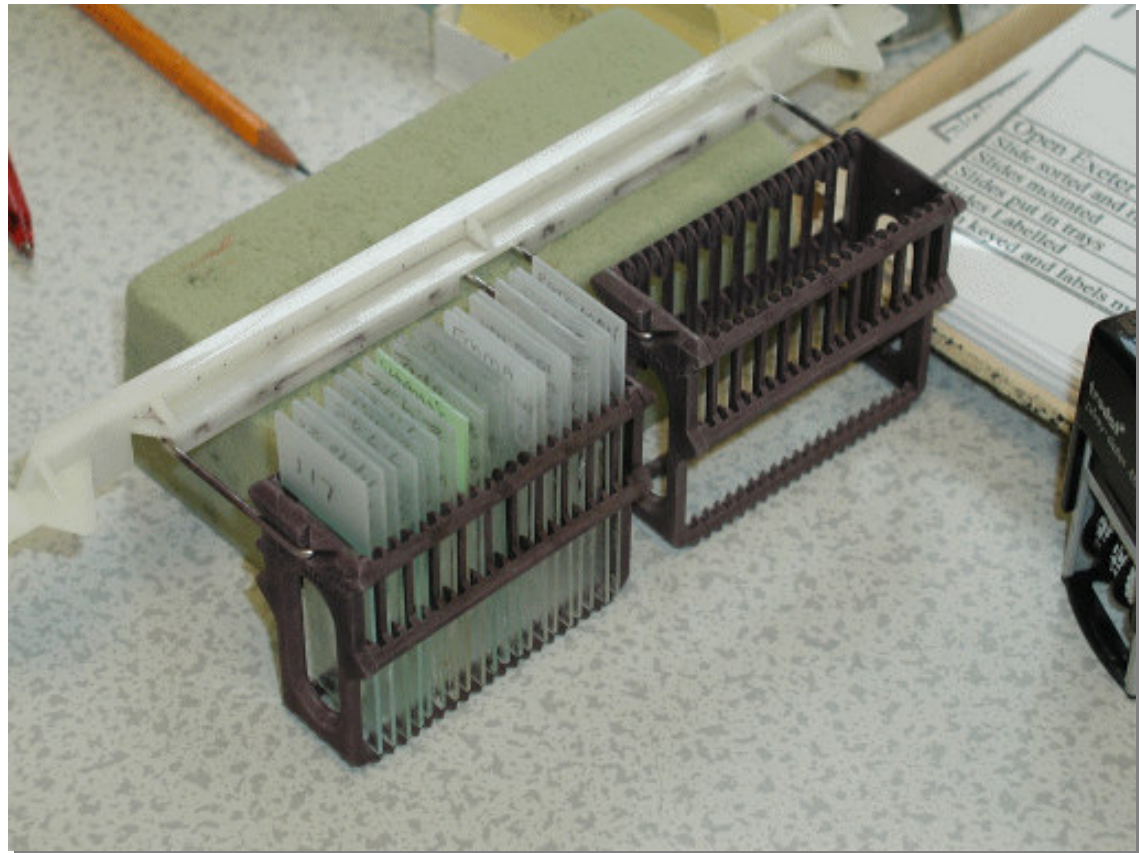
Group discussion on multiheaded microscope





THE CYTOLOGY LABORATORY

SLIDES FOR STAINING



THE STAINING MACHINE



SLIDES STAINING

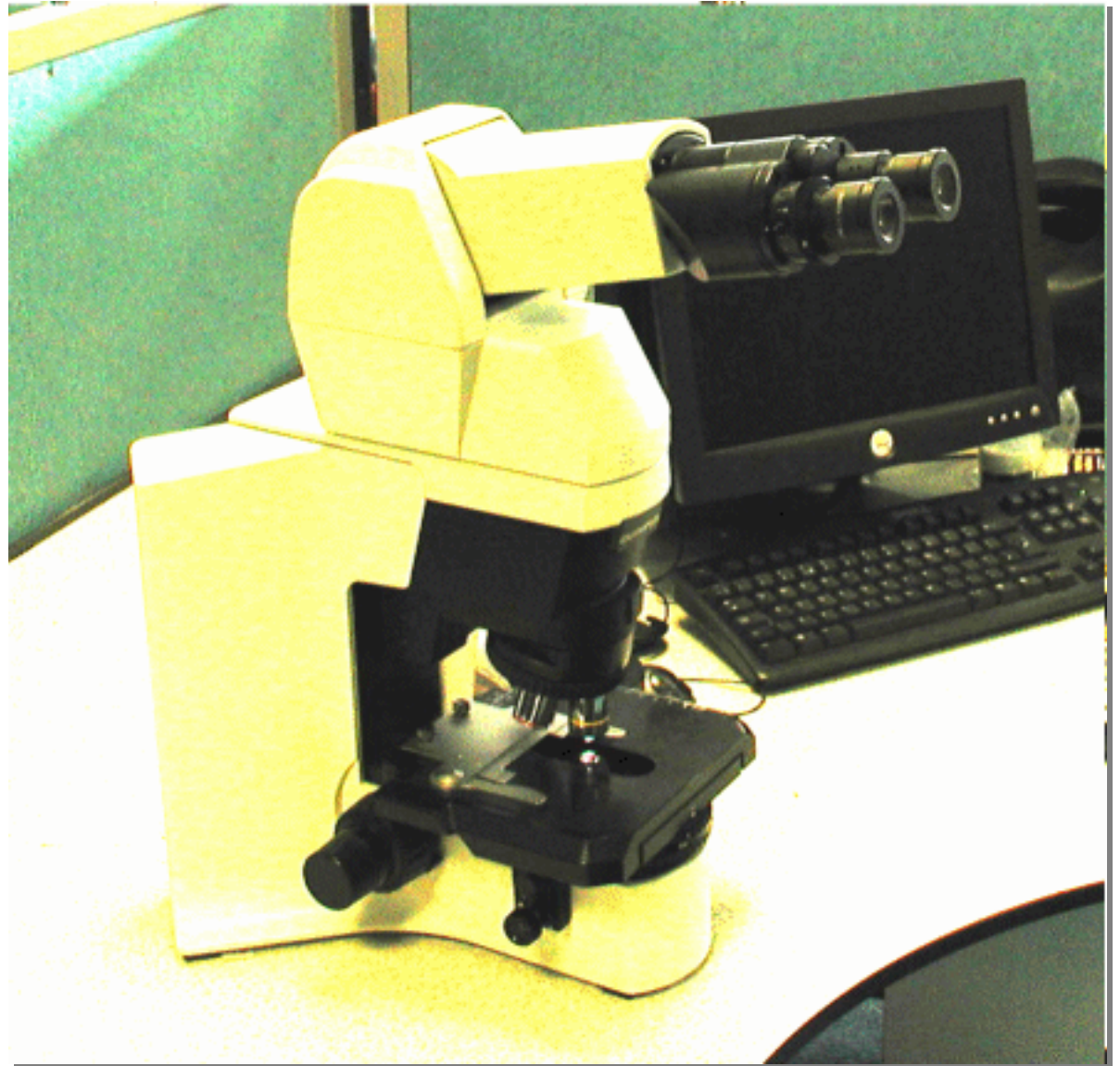


A TRAY OF SLIDES



THE SCREENING ROOM





CYTOLOGY WORK STATION

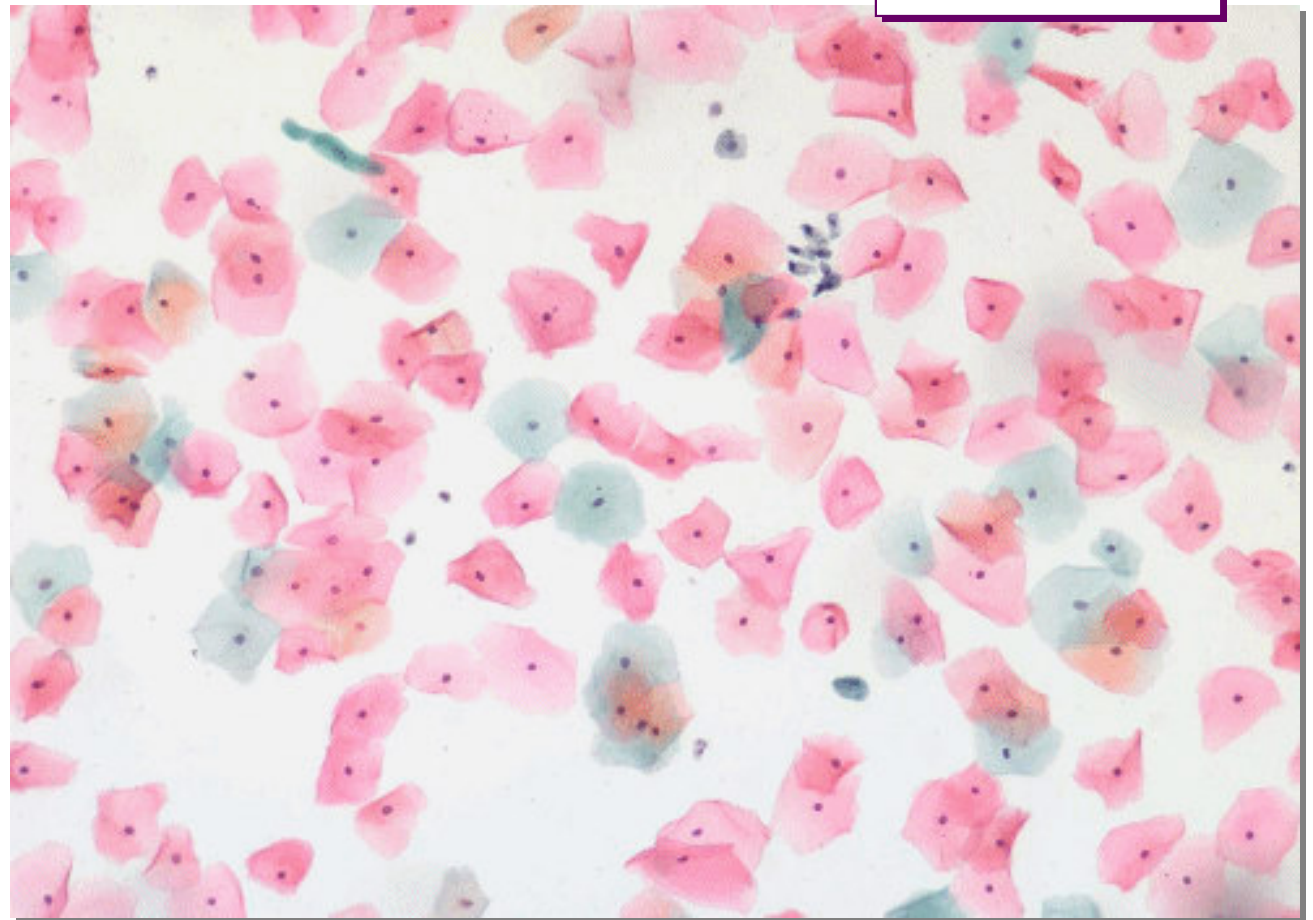


GYNAE CYTOLOGY GRADES

- NEGATIVE
- LOW GRADE ABNORMALITY
(MILD DYSKARYOSIS)
- HIGH GRADE ABNORMALITY
(SEVERE DYSKARYOSIS)
- CANCER
- GLANDULAR CELL
ABNORMALITY

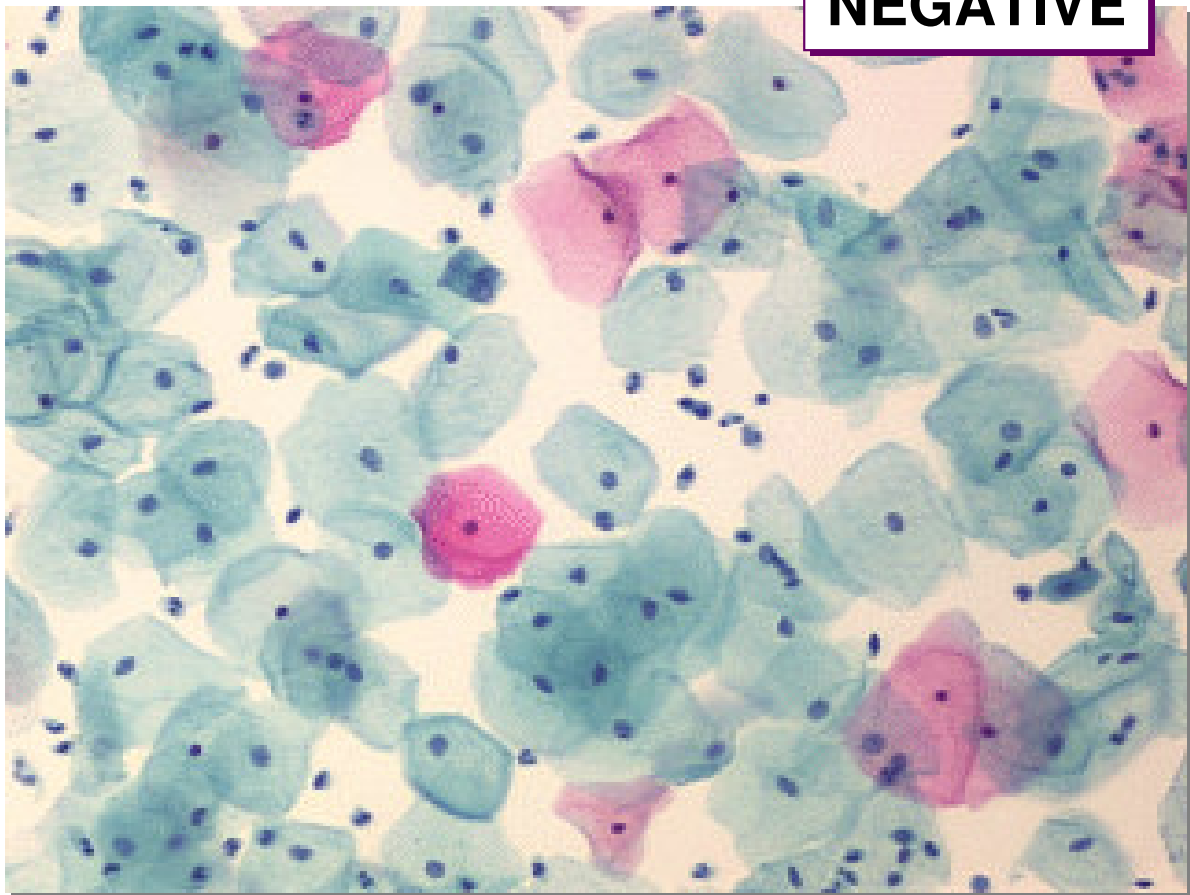


NEGATIVE



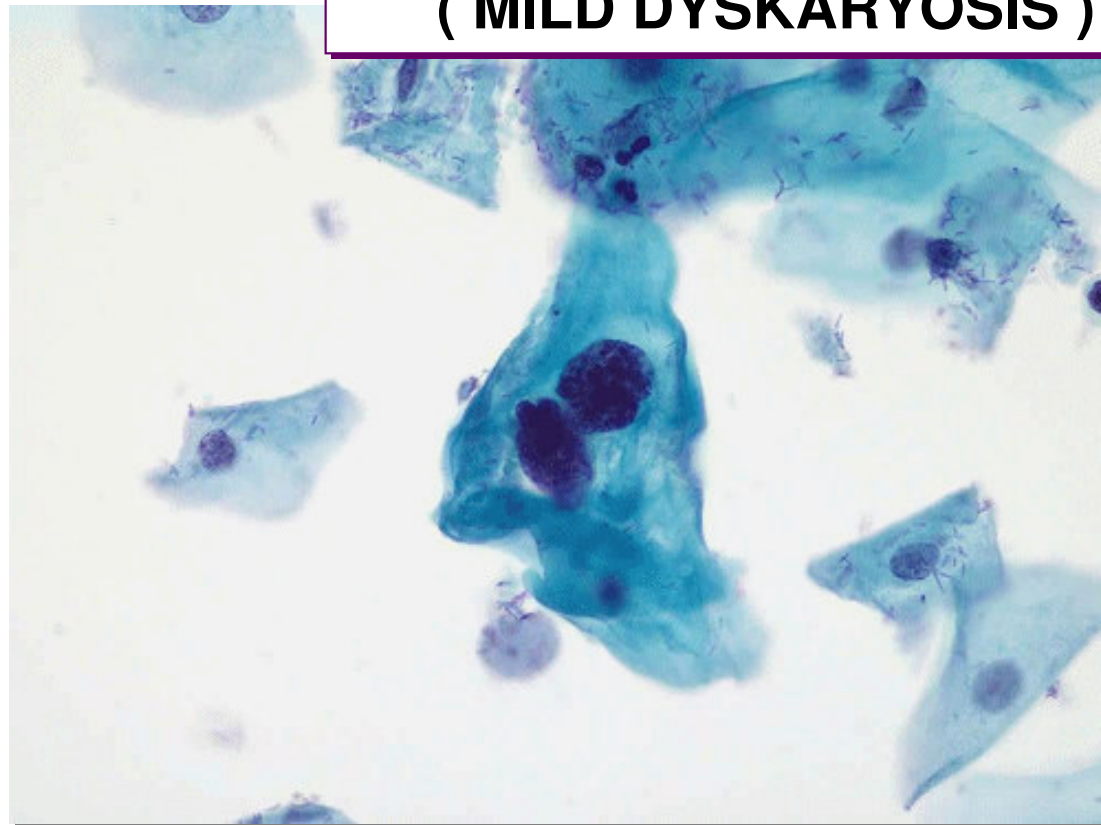


NEGATIVE





**LOW GRADE ABNORMALITY
(MILD DYSKARYOSIS)**

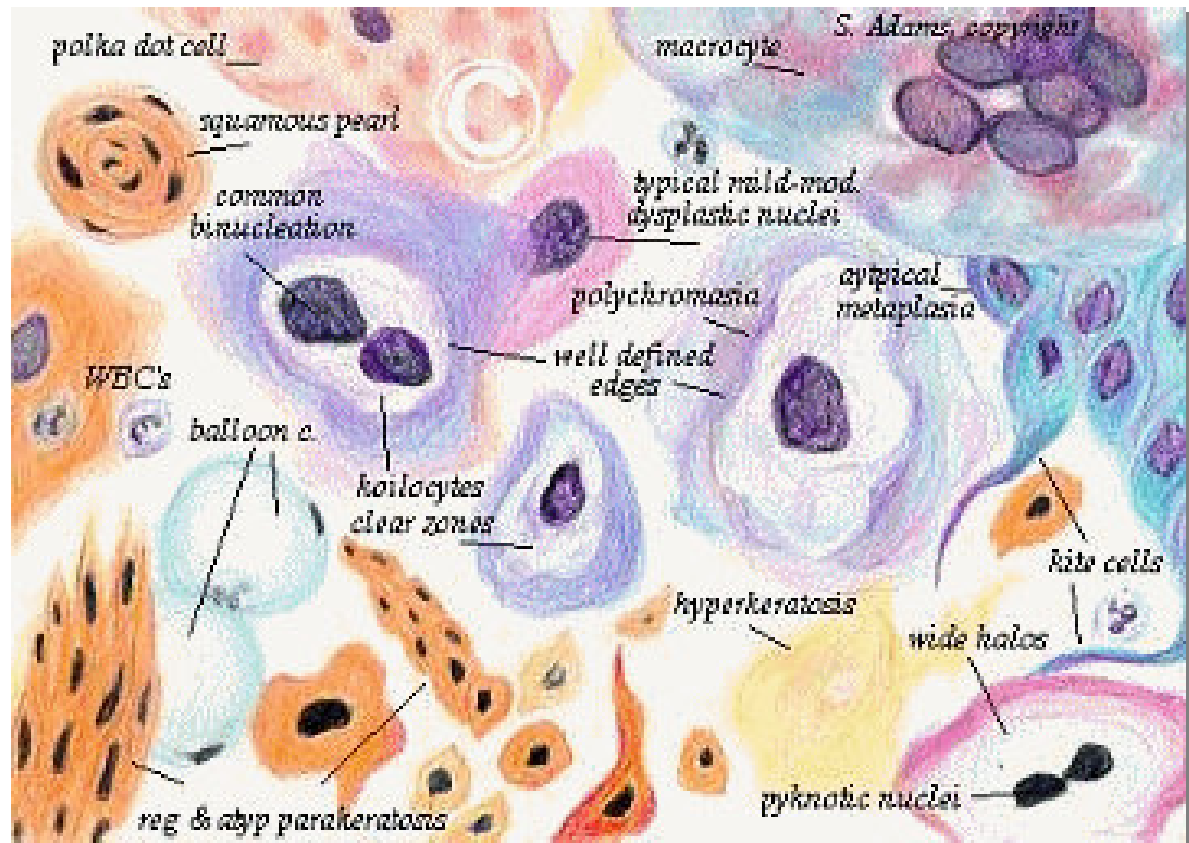




**LOW GRADE ABNORMALITY
(MILD DYSKARYOSIS)**

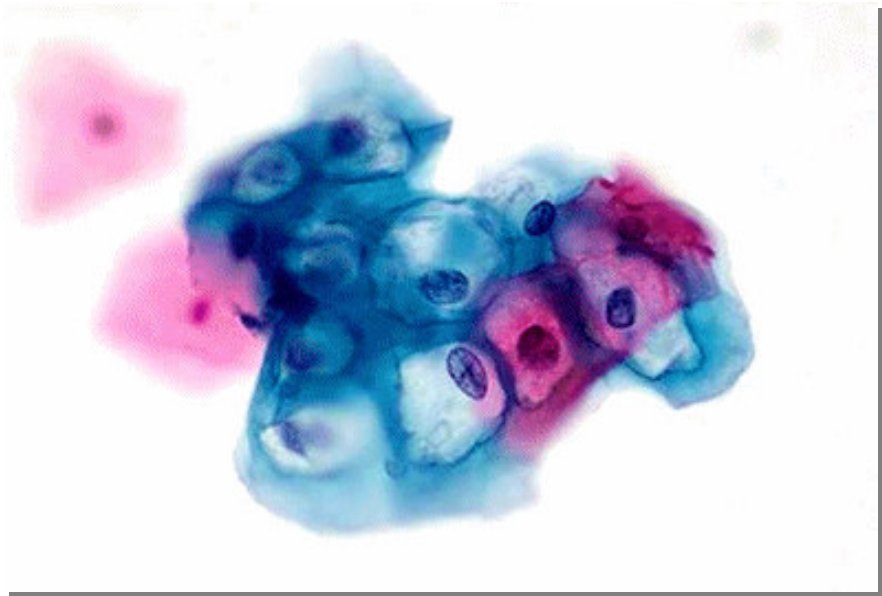


ILLUSTRATION OF LOW GRADE ABNORMALITY (MILD DYSKARYOSIS) WITH HPV (GENITAL WARTS)



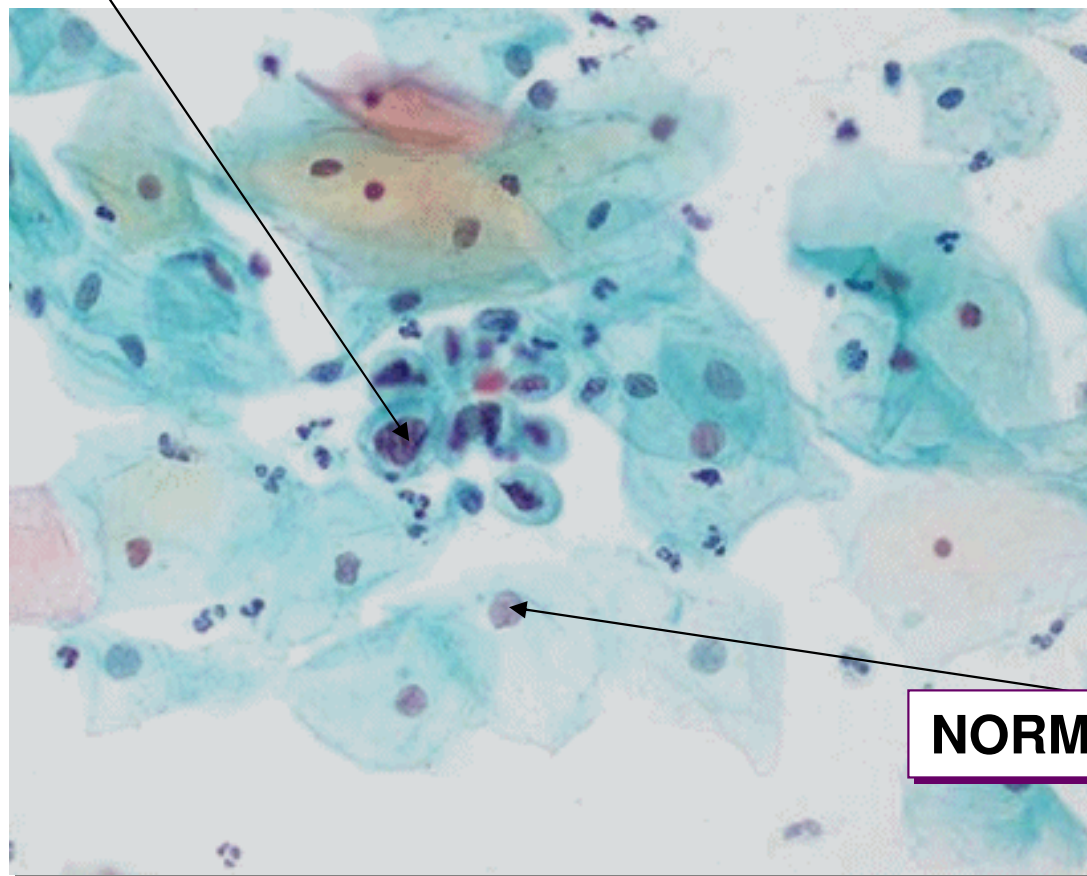


**LOW GRADE ABNORMALITY
(MILD DYSKARYOSIS)
WITH HPV (GENITAL WARTS)**





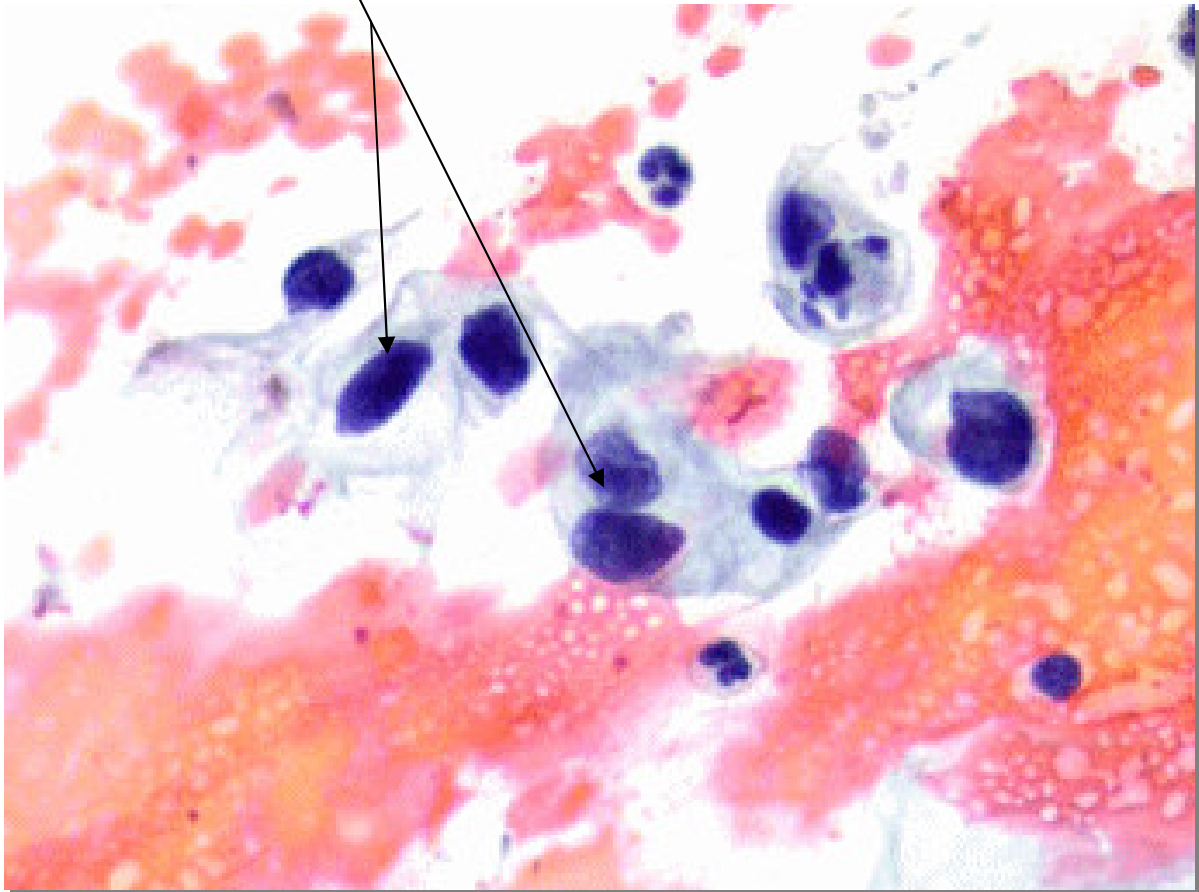
**HIGH GRADE ABNORMALITY
(SEVERE DYSKARYOSIS)**



NORMAL CELL

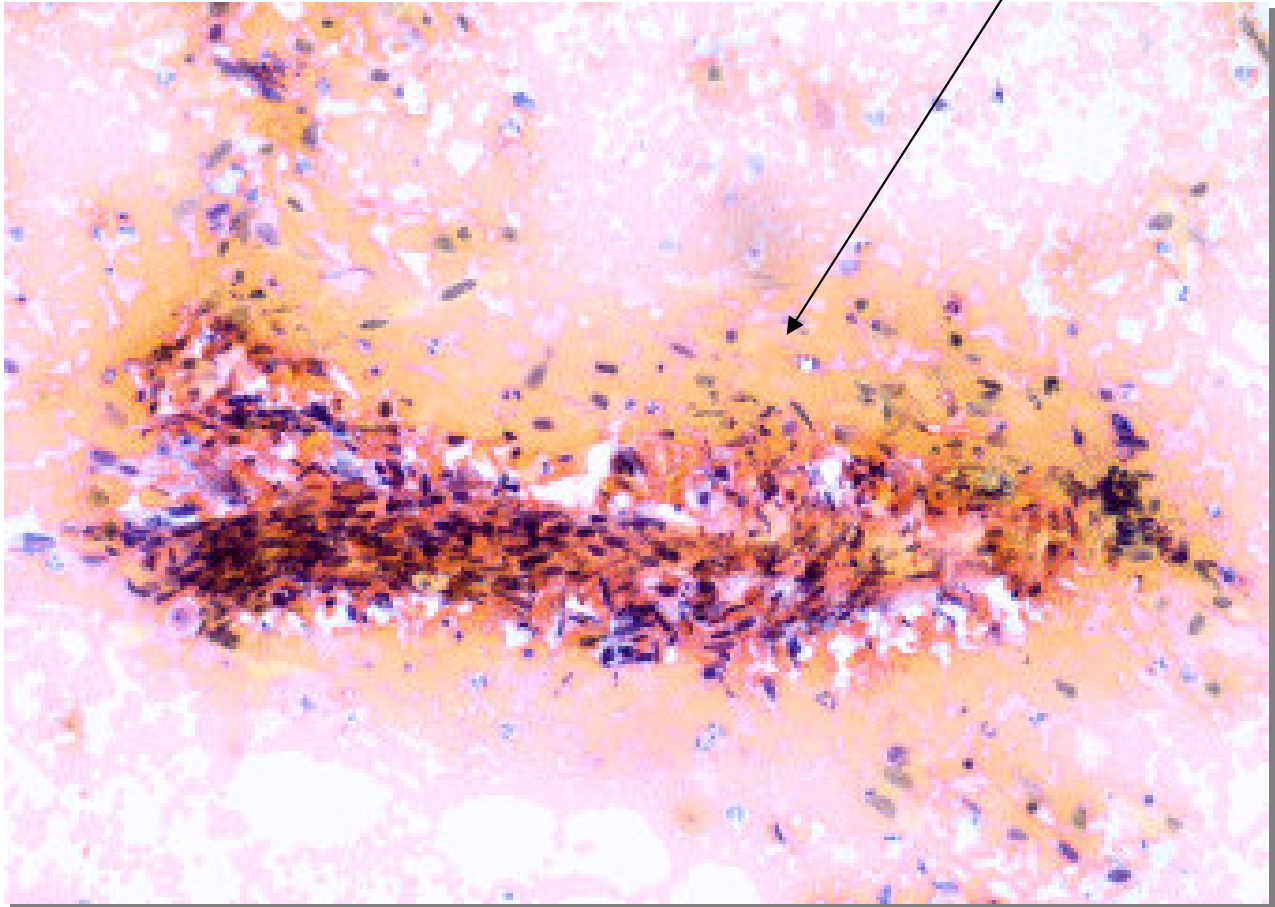


**HIGH GRADE ABNORMALITY
(SEVERE DYSKARYOSIS)**





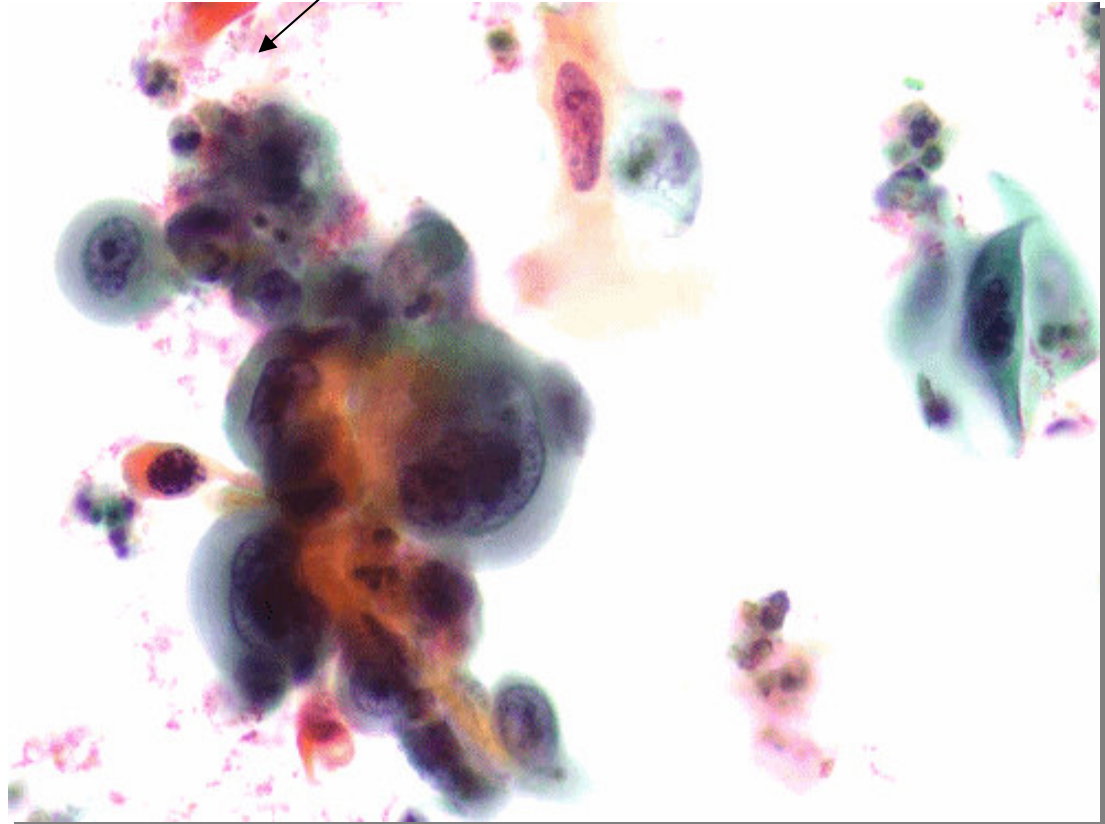
BLOOD



CANCER



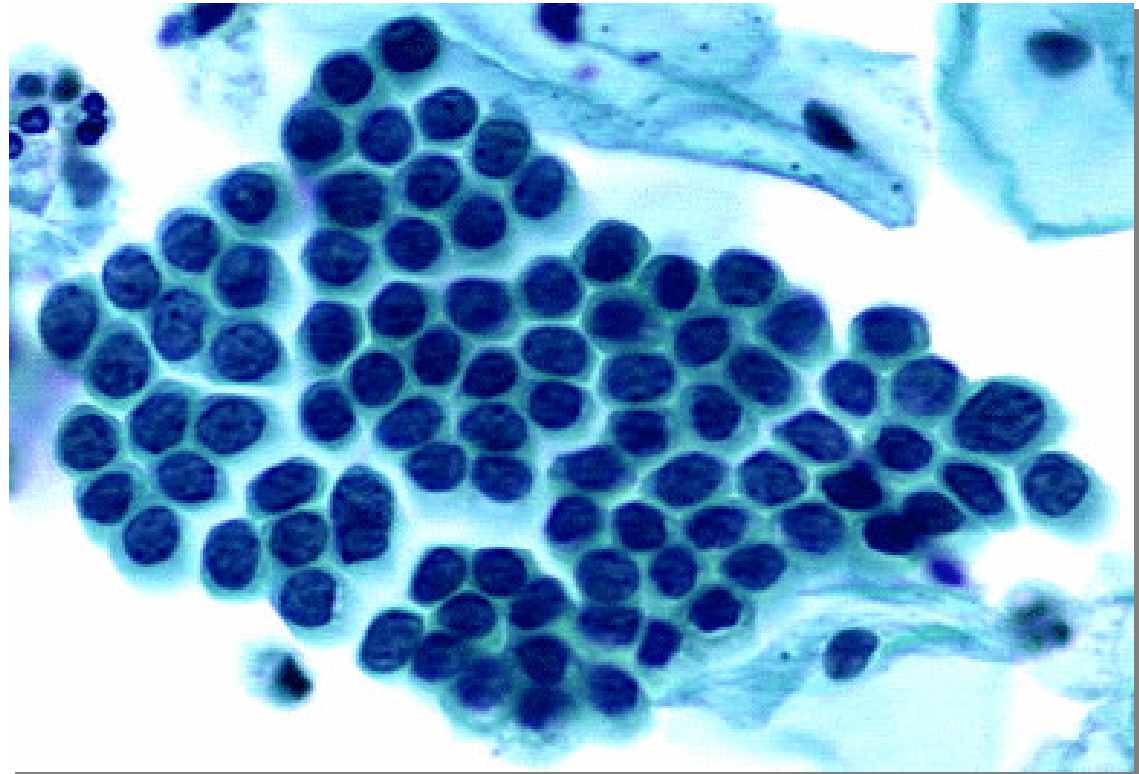
**PIECES OF DEAD CELLS
(TUMOUR DIATHESIS)**

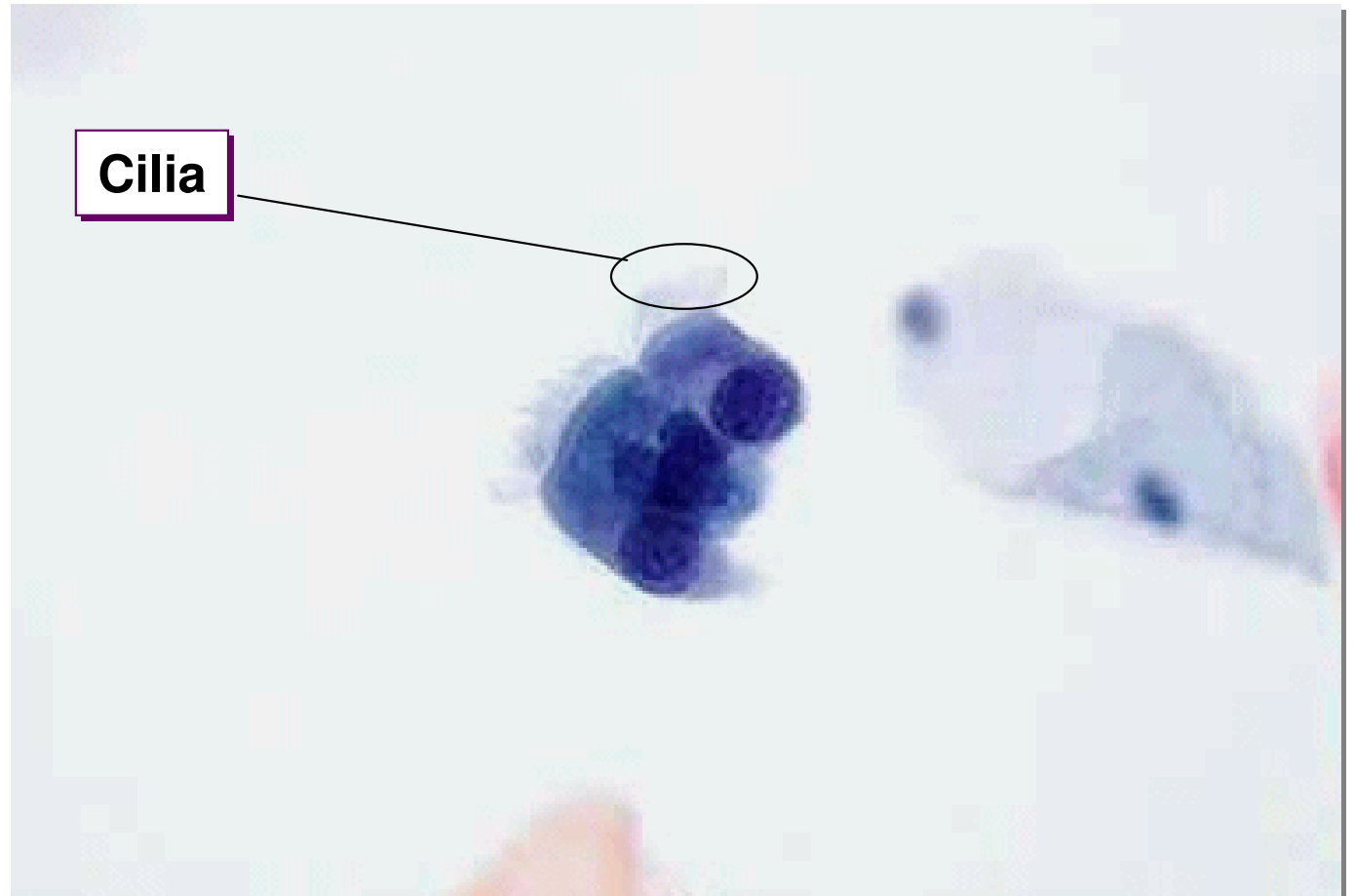


CANCER

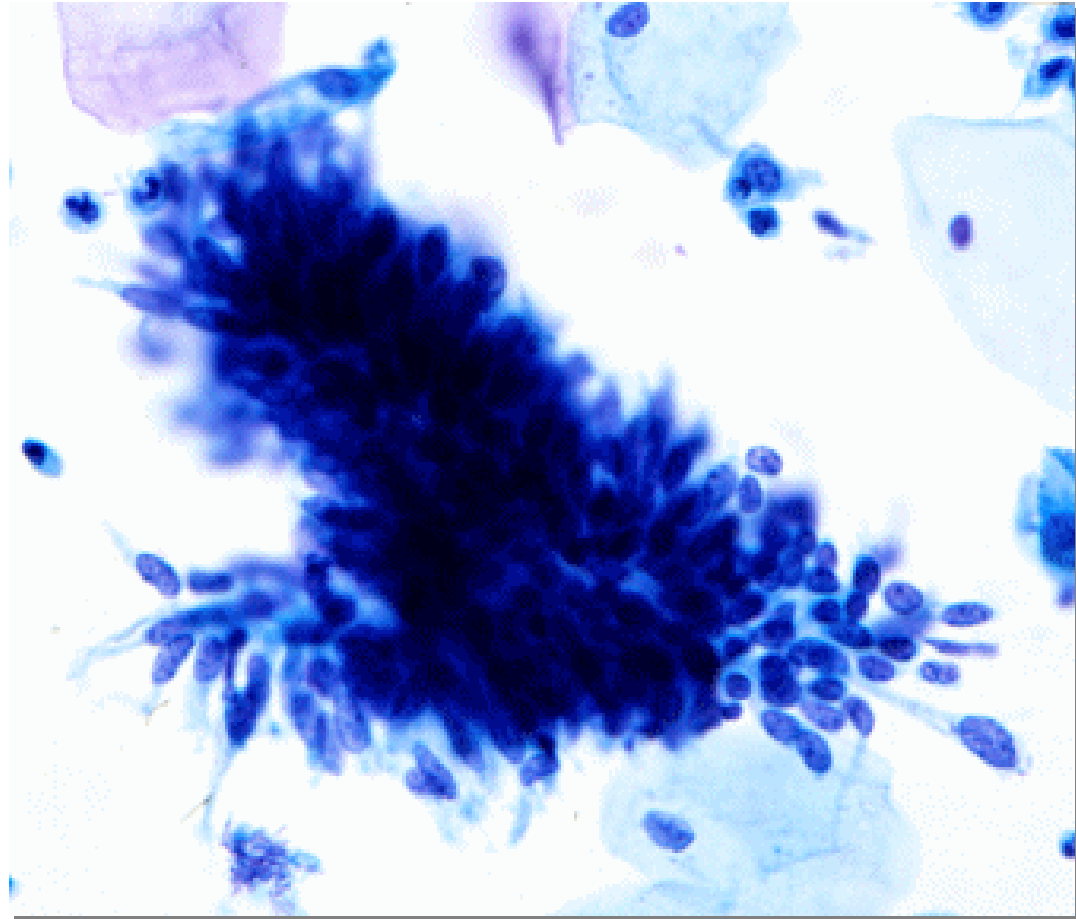


NORMAL GLANDULAR CELLS (HONEYCOMBE PATTERN)



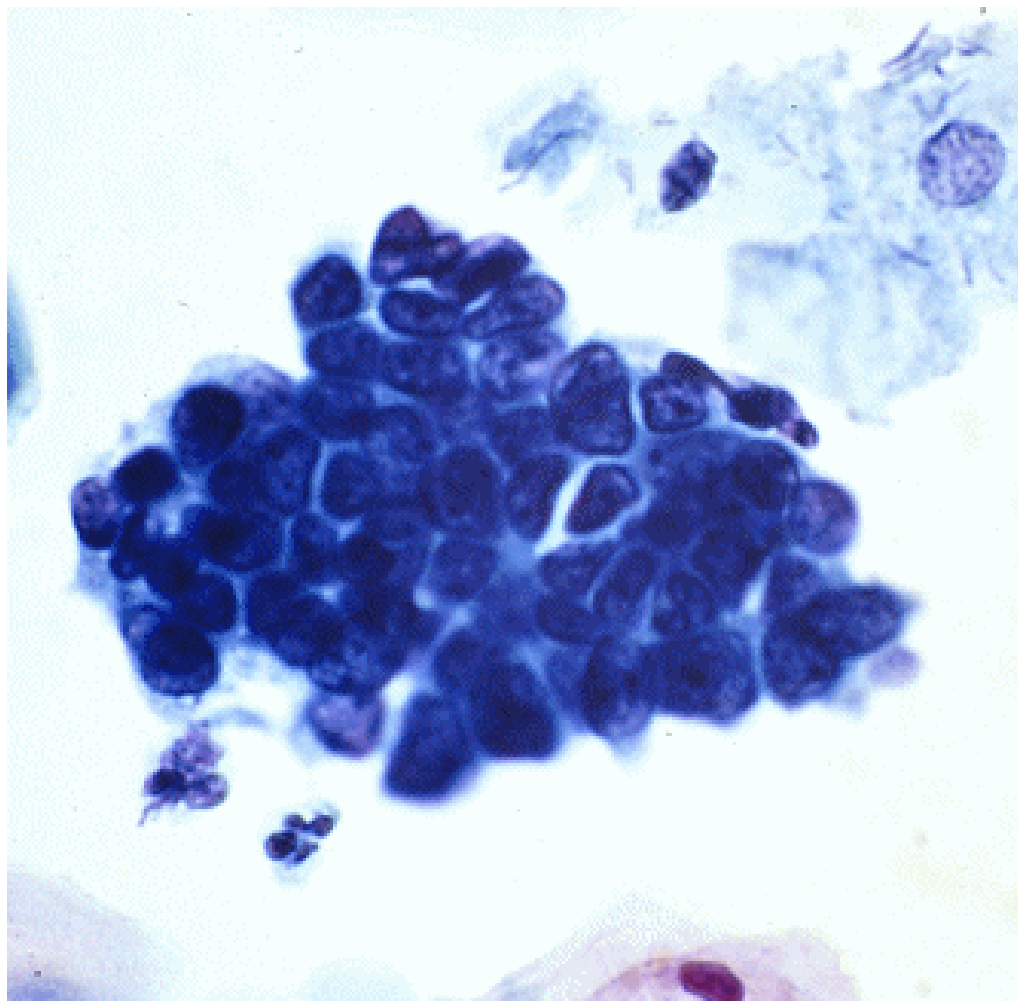


NORMAL GLANDULAR CELLS



ABNORMAL GLANDULAR CELLS

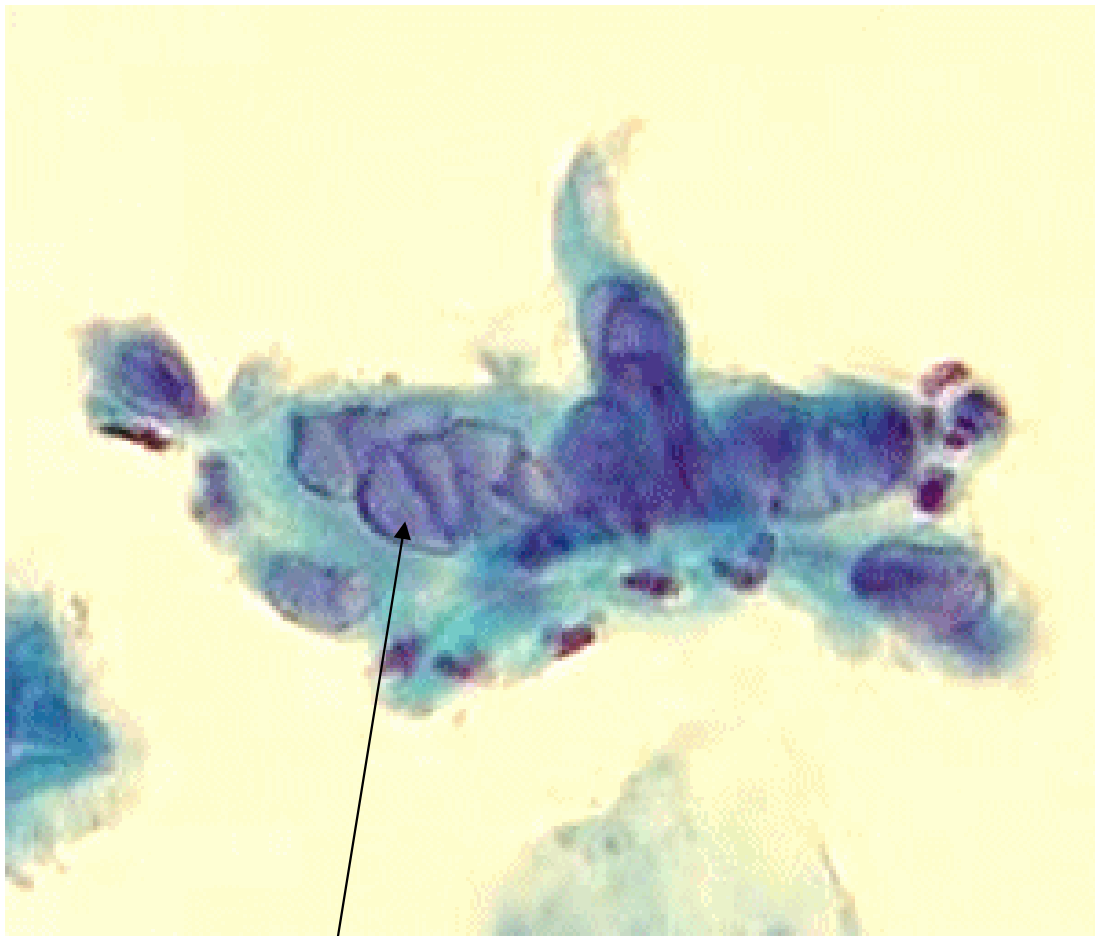
ABNORMAL GLANDULAR CELLS



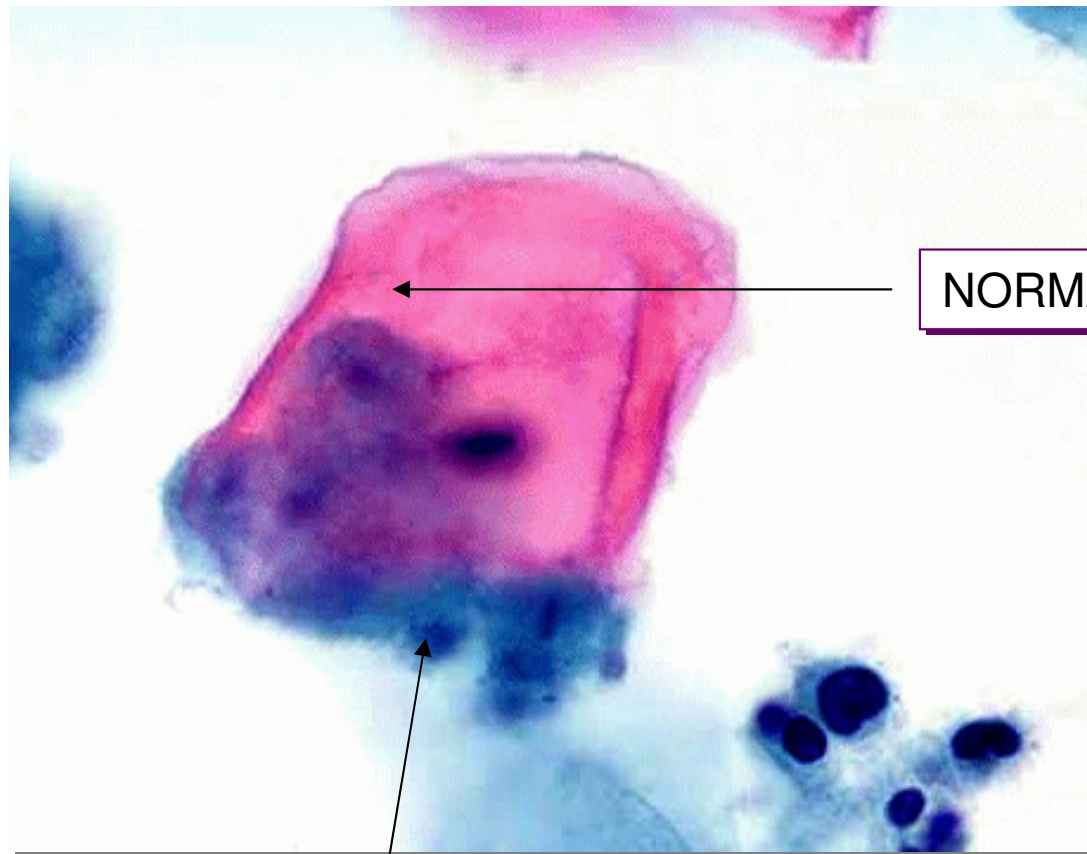


INFECTIONS

- HERPES SIMPLEX VIRUS
- TRICHOMONAS
- CANDIDA
- ACTINOMYCES



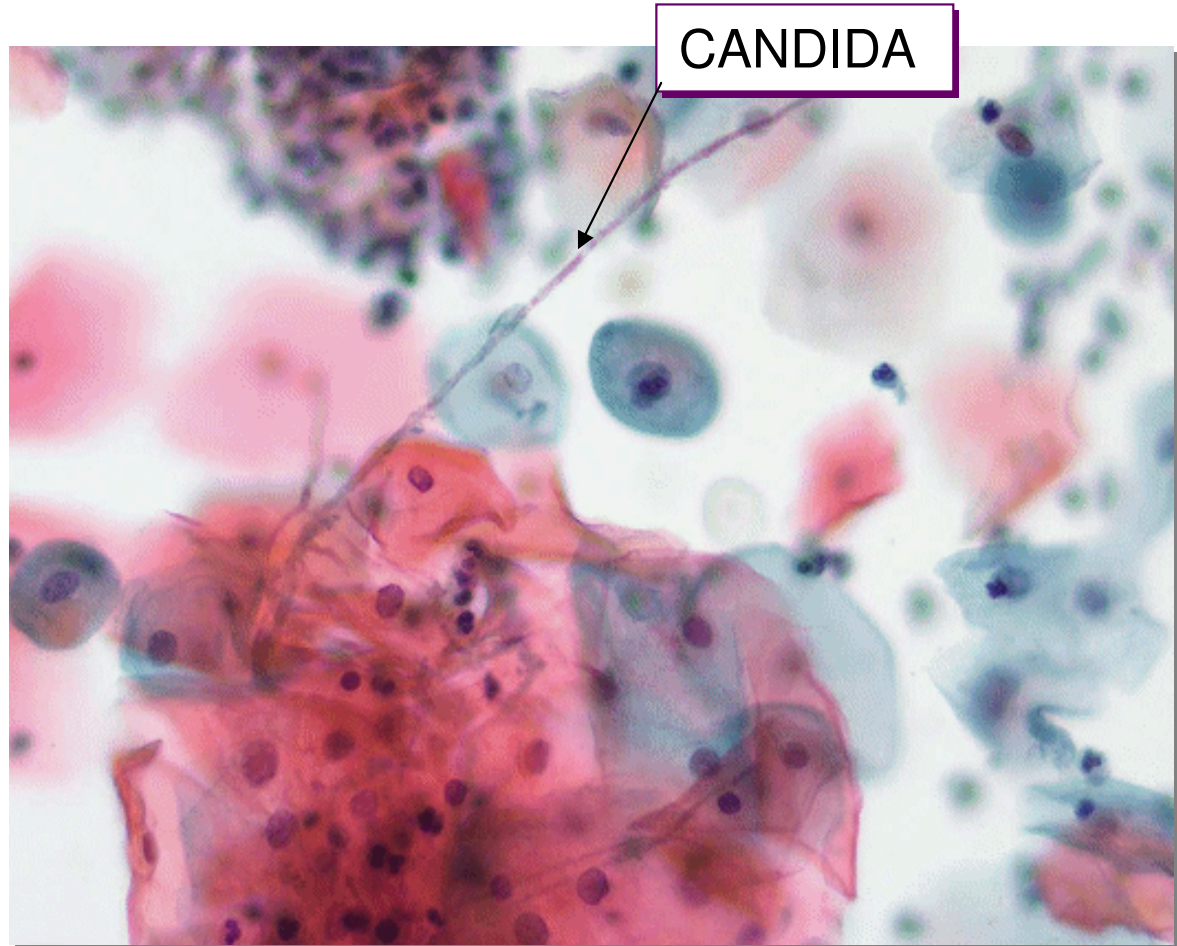
HERPES (IS FOR LIFE)

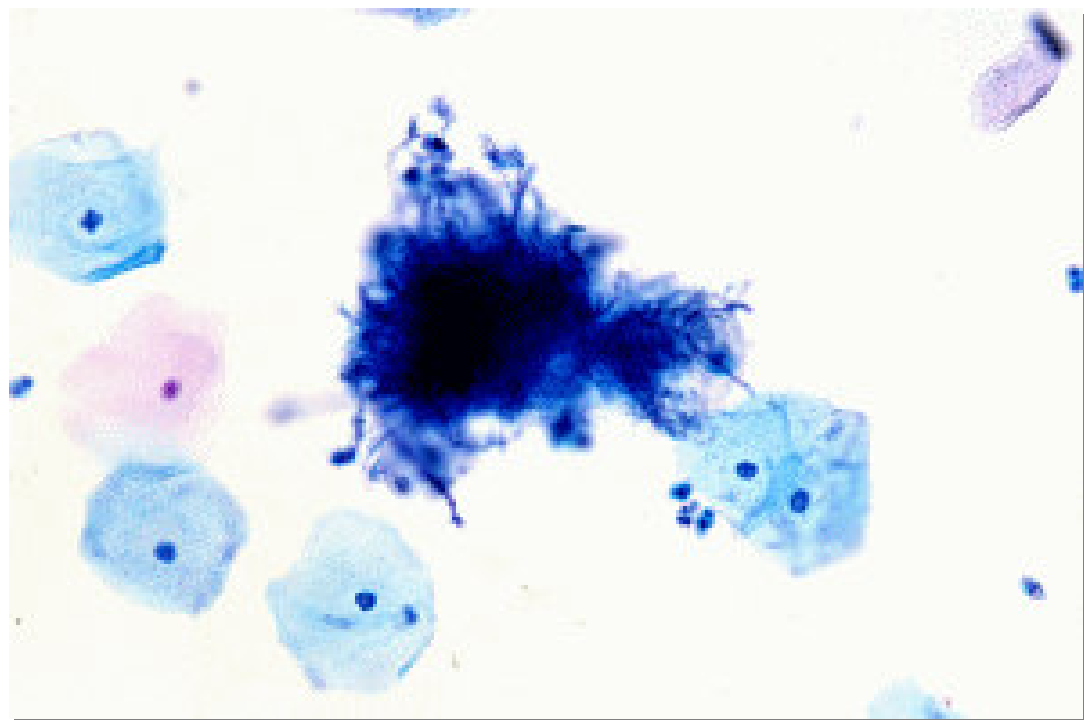


NORMAL CELL

**TRICHOMONAS
CAUSES FISHY SMELLING, BUBBLY,
GREENISH DISCHARGE**

CANDIDA (THRUSH) CAUSES WHITE CURD LIKE DISCHARGE



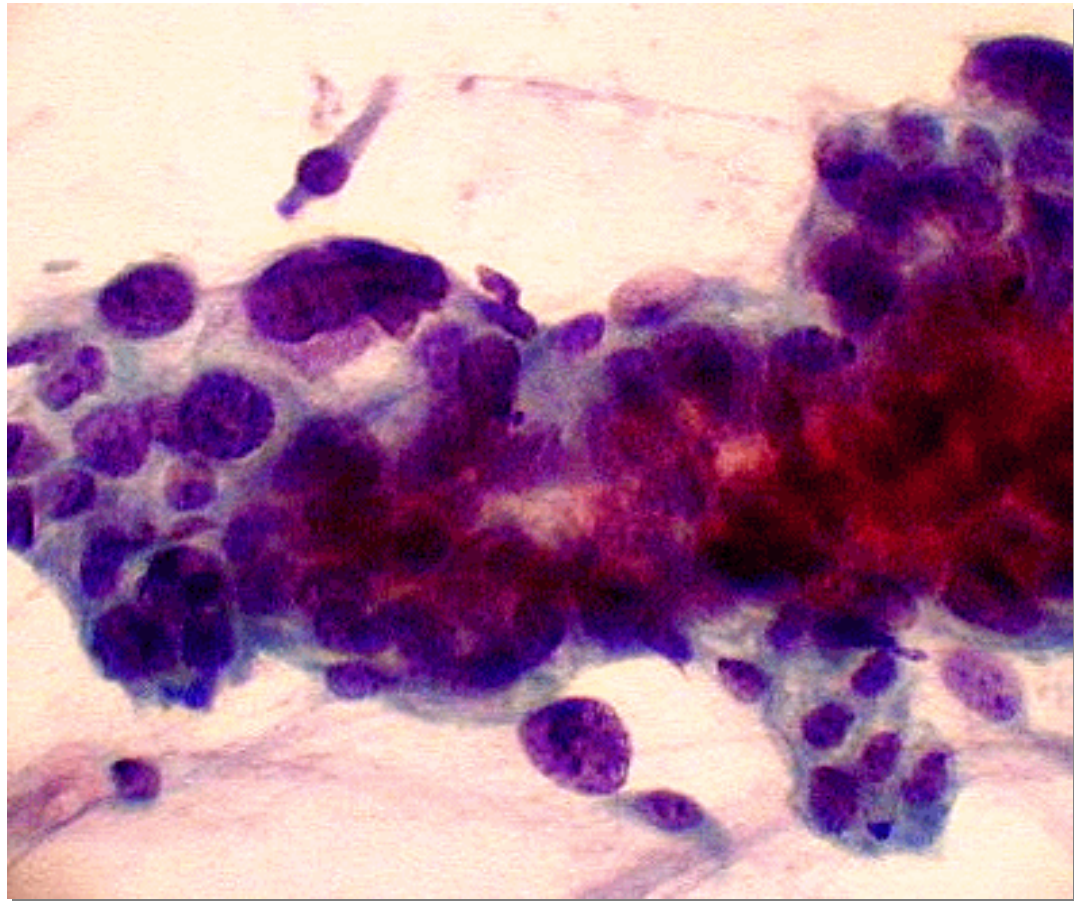


ACTINOMYCES (ASSOCIATED WITH IUCD)



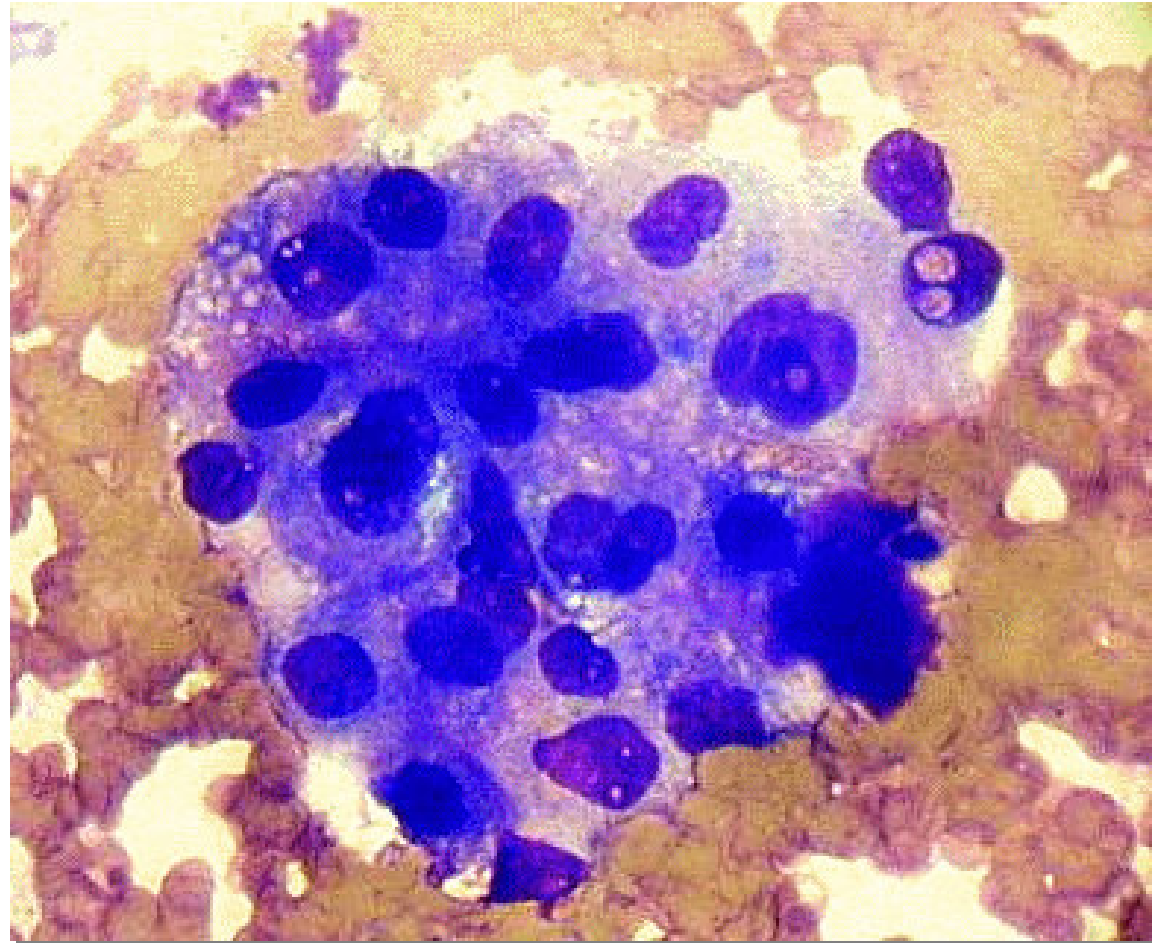
NON GYNAE CASES

CELLS FROM THE LUNG



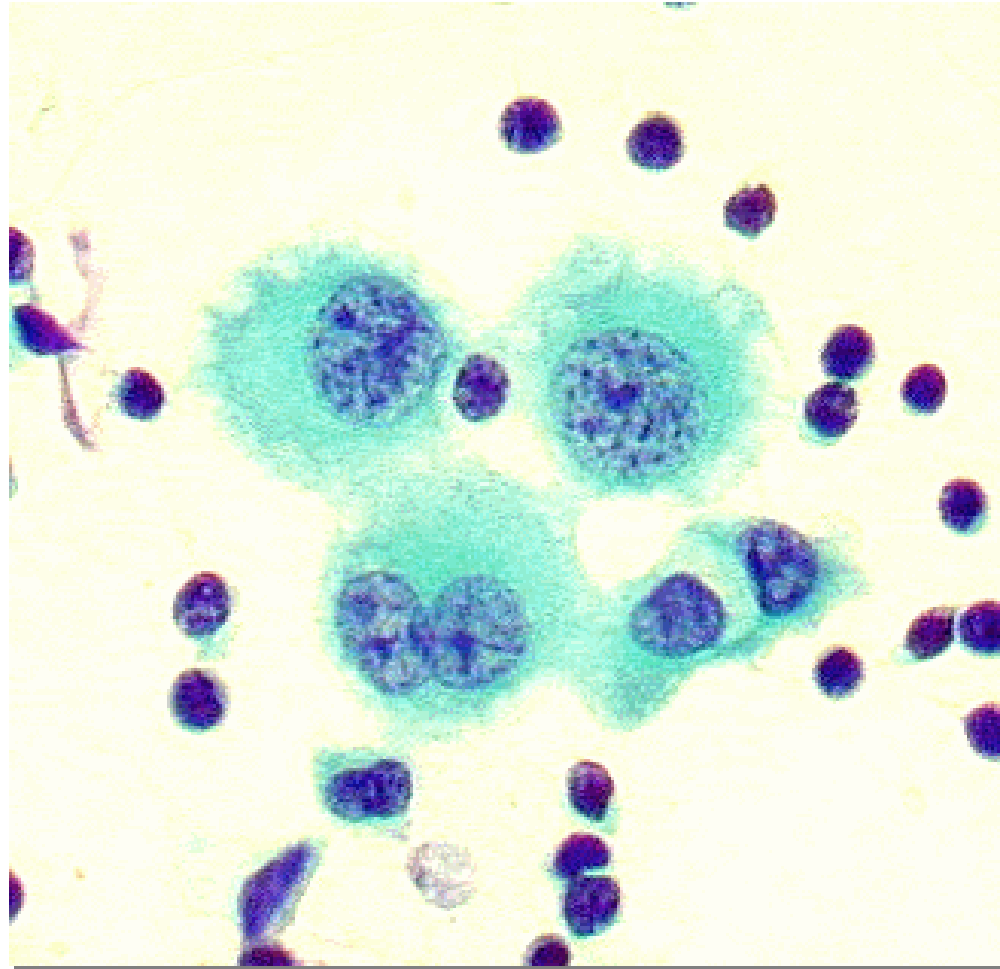
**30 YEAR OLD MALE SMOKER
LUNG CANCER**

**LIVER CELL
CANCER**



**50 YEAR OLD FEMALE
HEPATOCELLULAR CARCINOMA**

**CANCER OF THE LINING OF THE LUNGS
CAUSED BY ASBESTOS EXPOSURE**



**70 YEAR OLD MALE
MALIGNANT MESOTHELIOMA**





ANY QUESTIONS ?