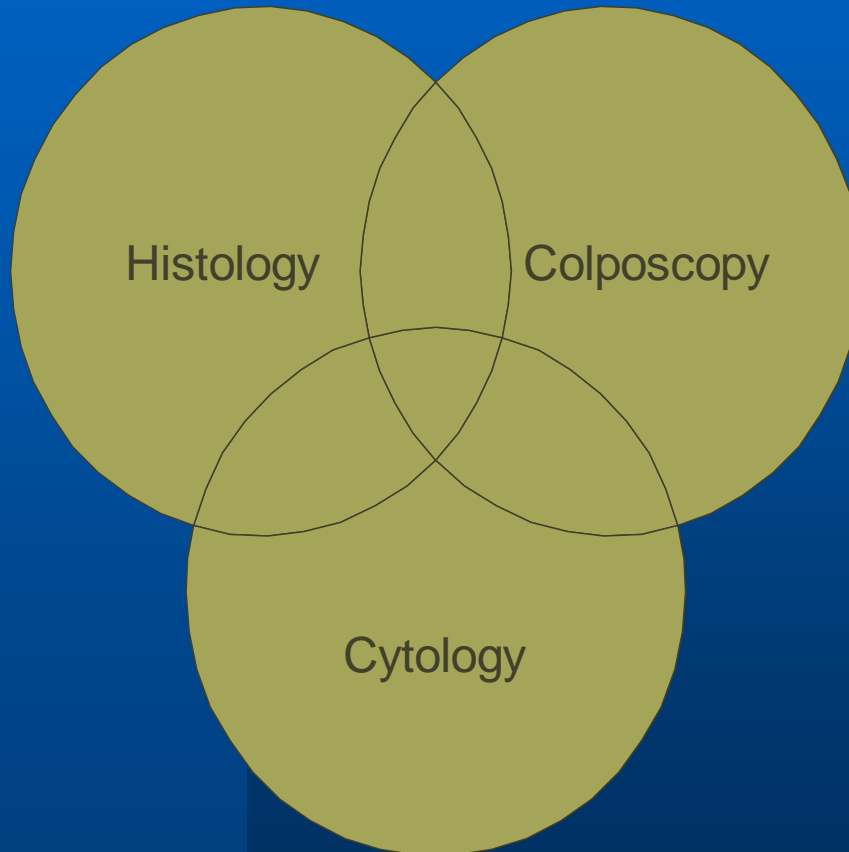


Colposcopy

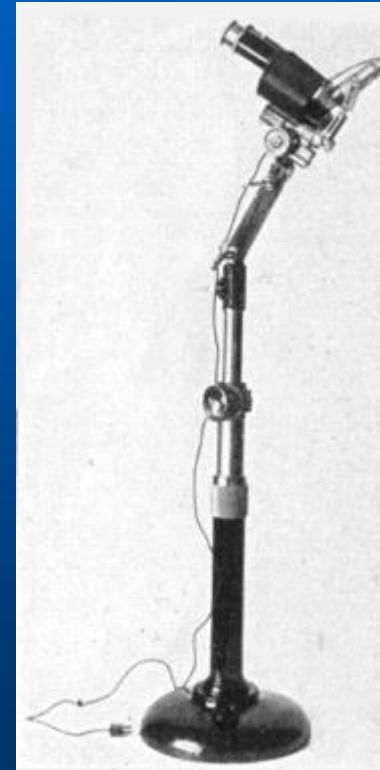
Attila L Major, MD, PhD



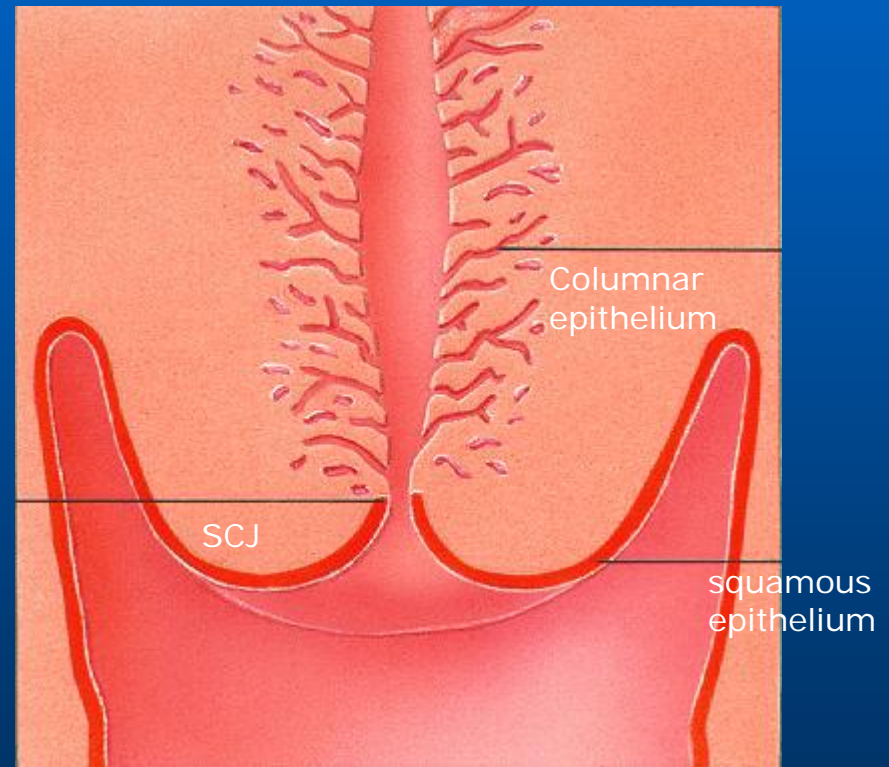
It has been estimated that annual Pap smear testing reduces a woman's chance of dying of cervical cancer from 4 in 1000 to about 5 in 10,000 – a difference of almost 90%



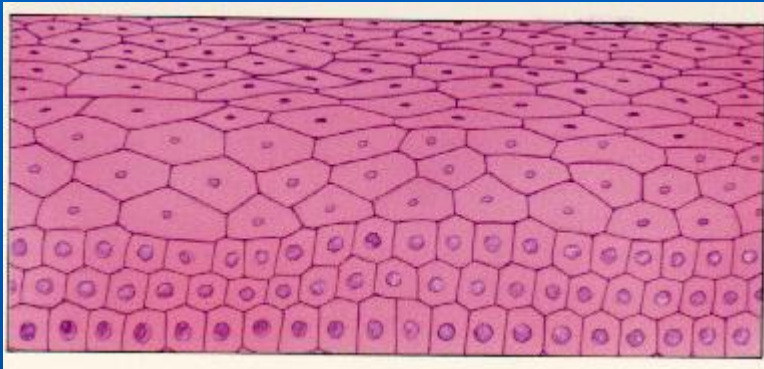
Hinselmann, 1925



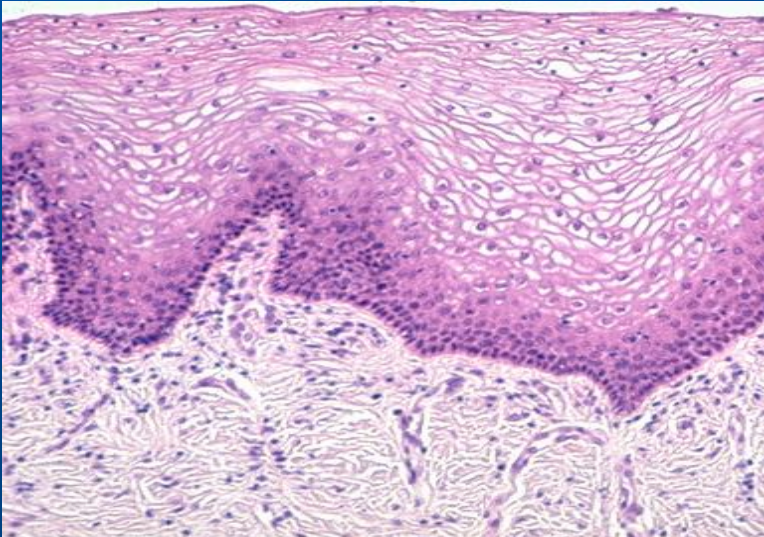
Squamous Epithelium



Squamous Epithelium



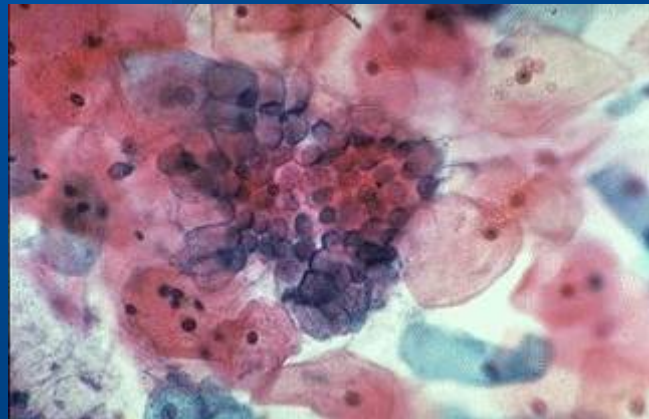
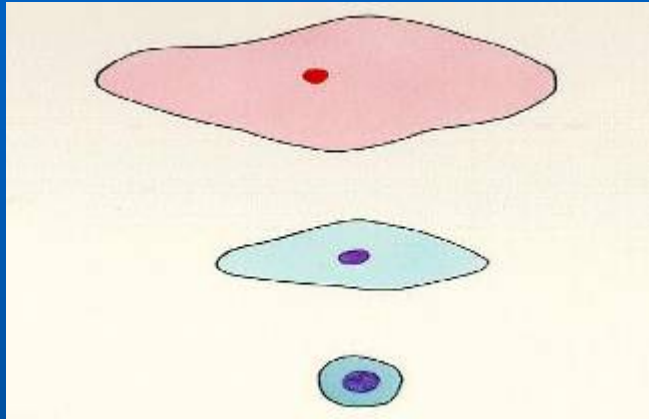
- stratified, non-keratinizing epithelium



original squamous epithelium



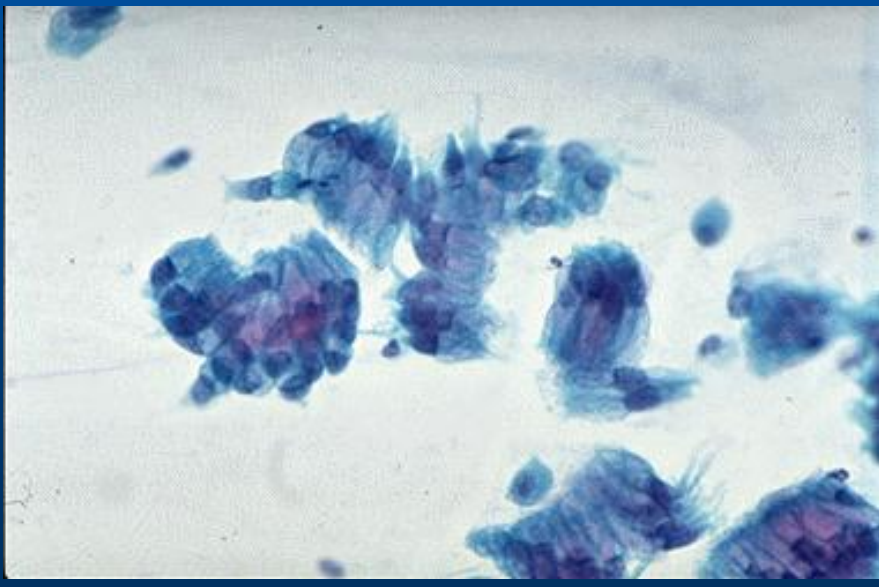
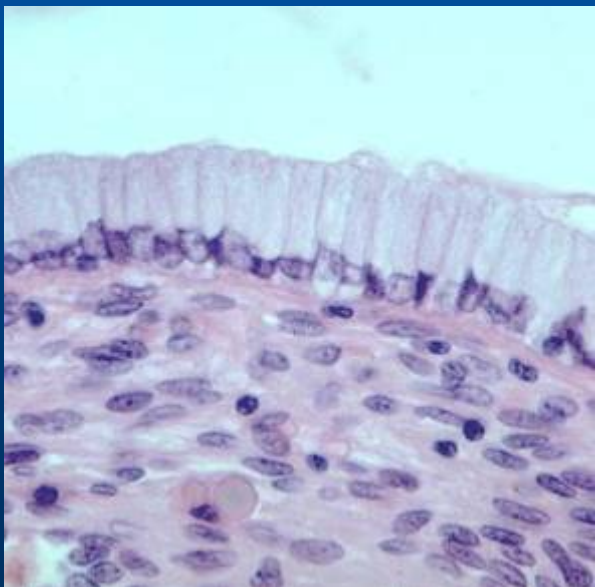
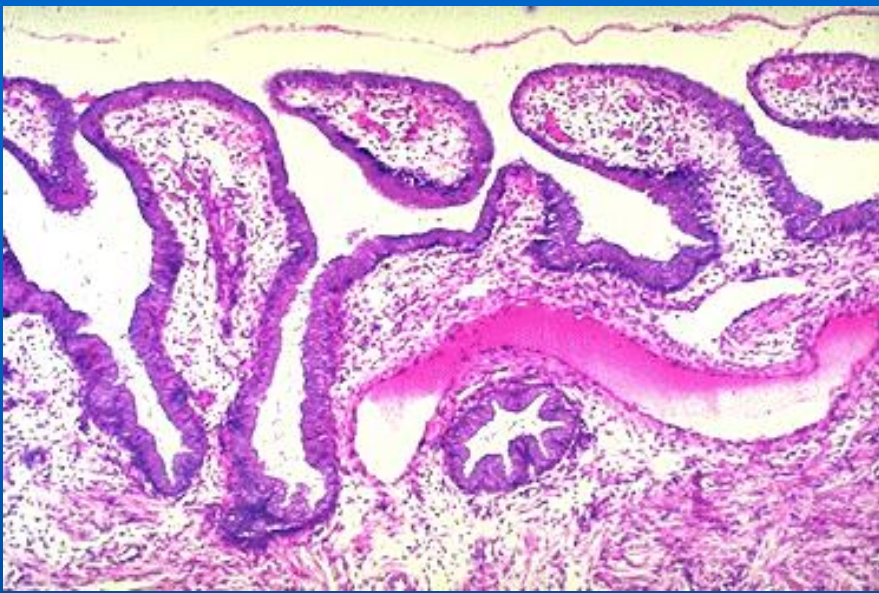
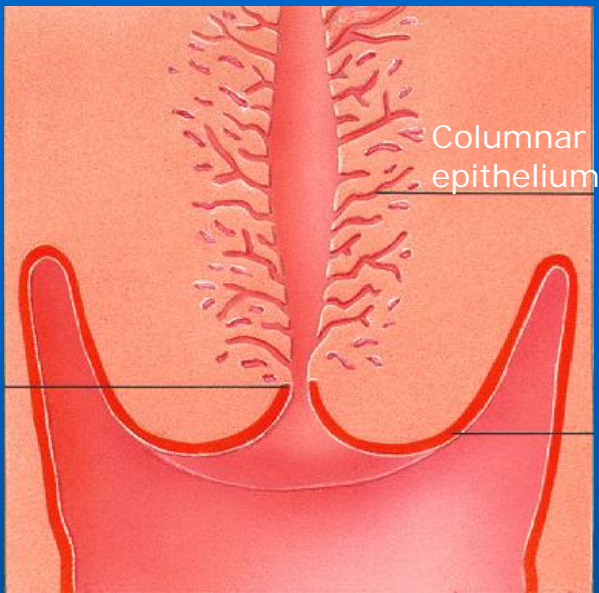
Cytological features



- The standard method for staining cytological preparations is that of Papanicolaou

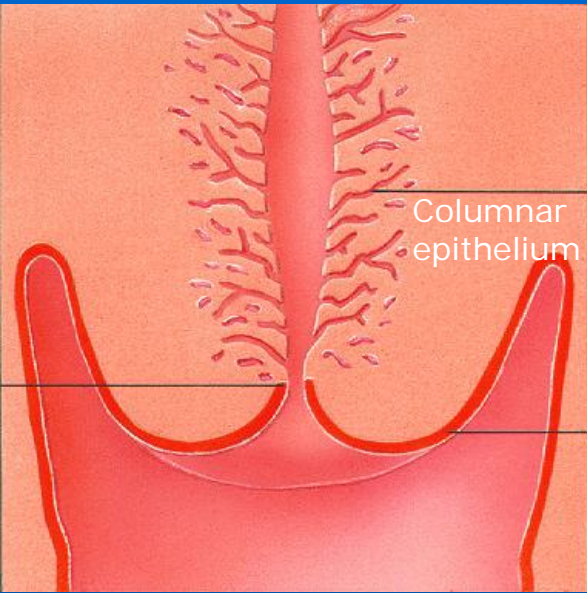


Columnar Epithelium

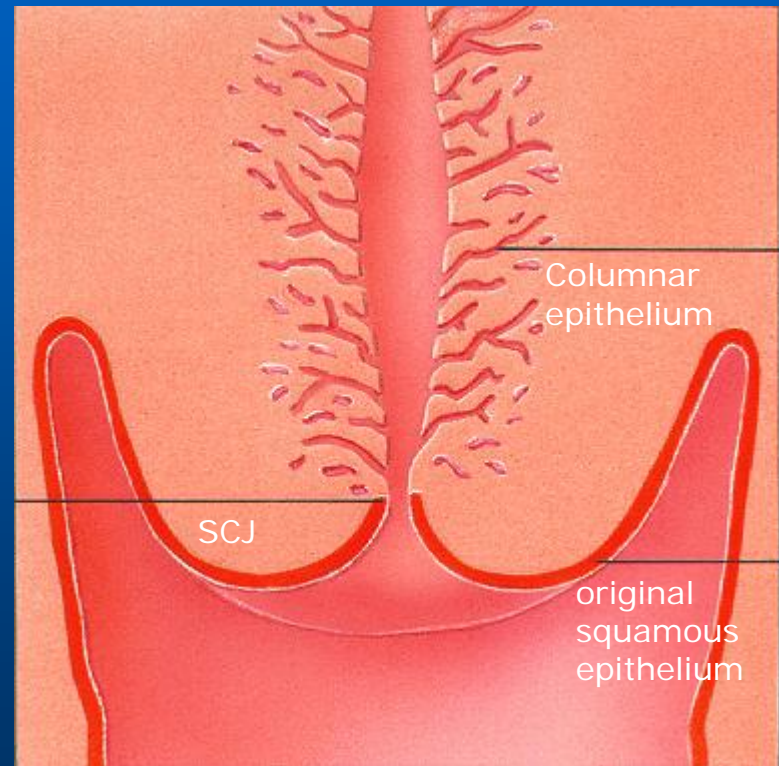
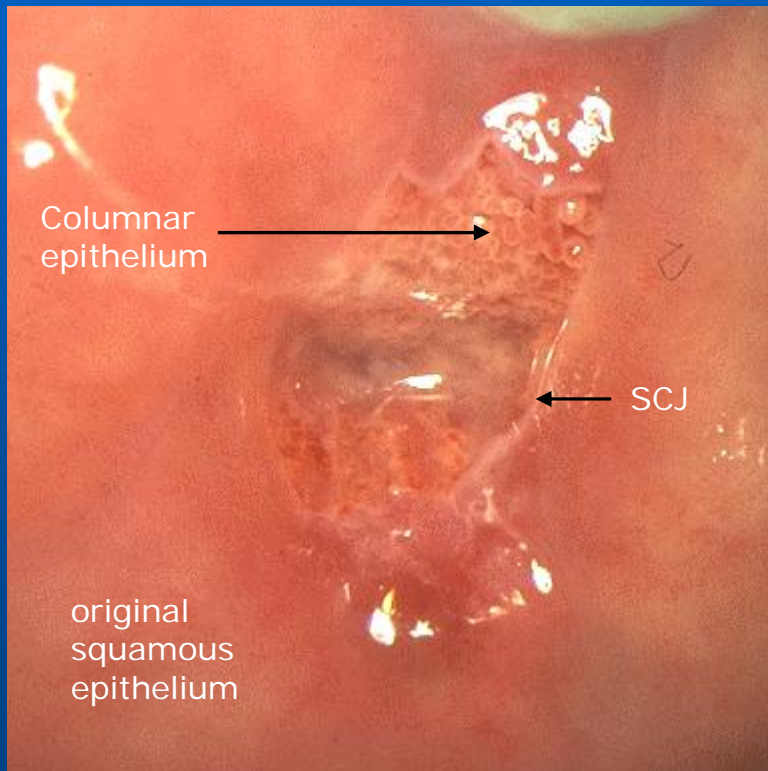


Columnar Epithelium

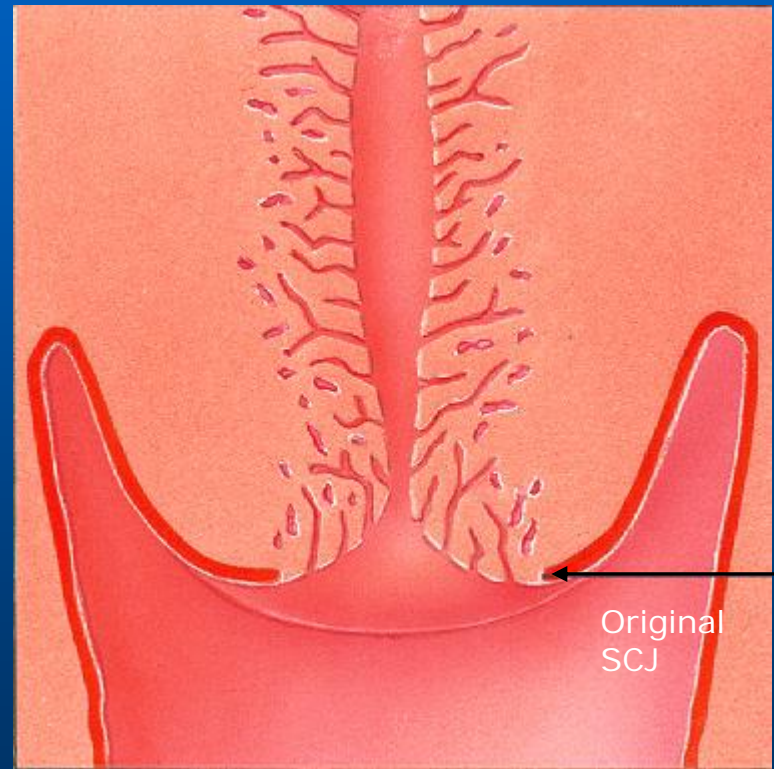
Normal columnar epithelium is easily recognised by its characteristic grape-like or villous appearance. Following application of acetic acid, the villi often appear white and are more easily recognizable.



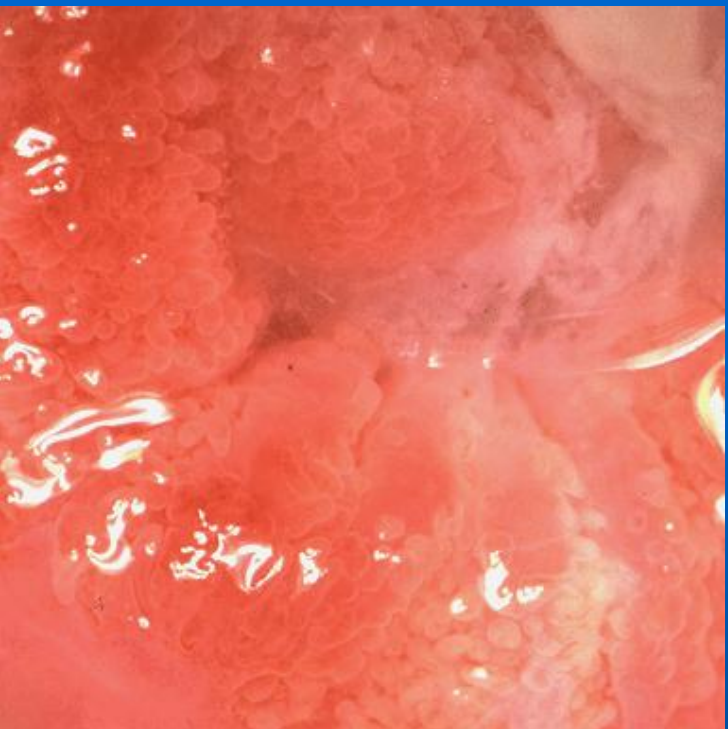
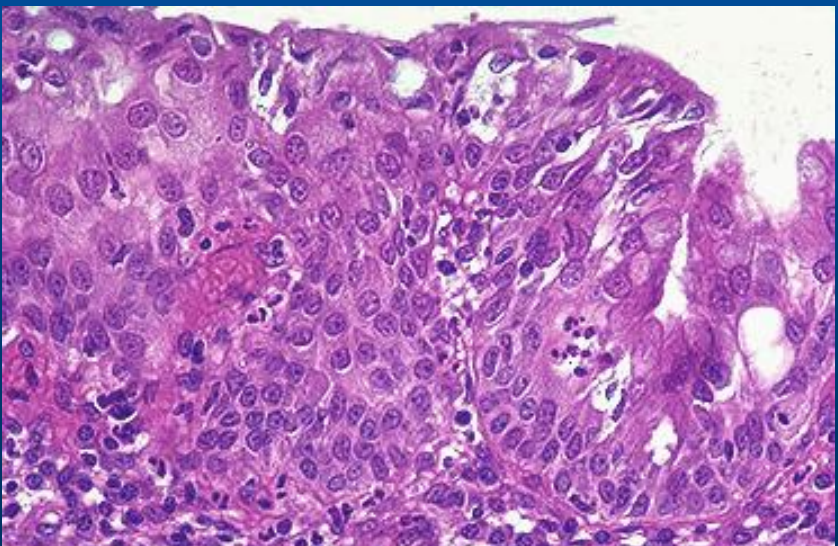
Normal Cervix, Colposcopy



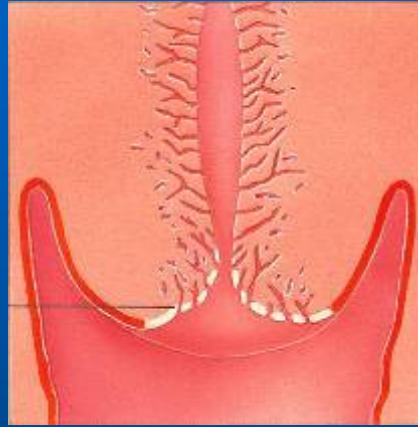
Transformation Zone



Immature metaplasia



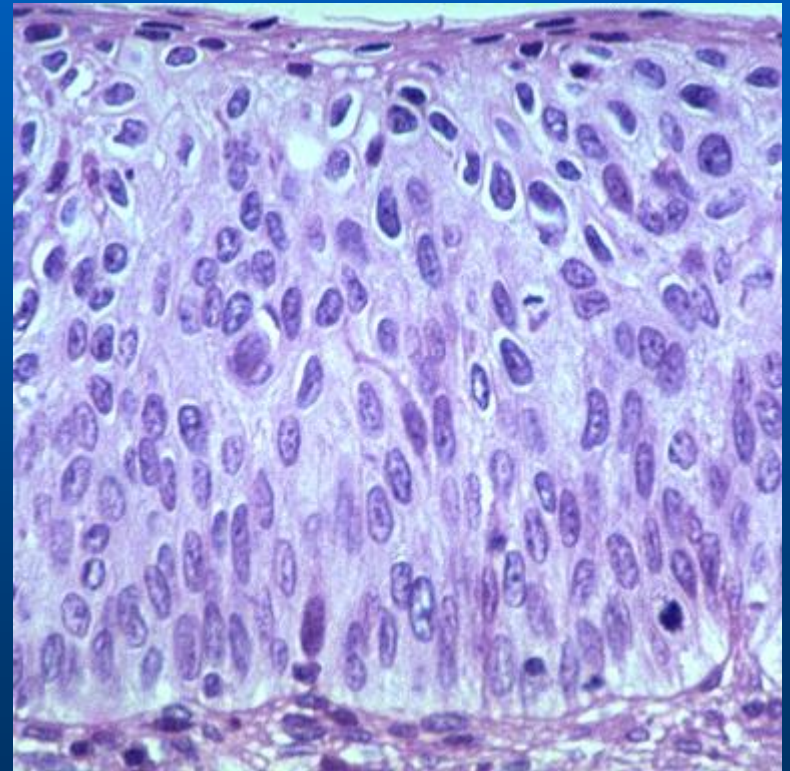
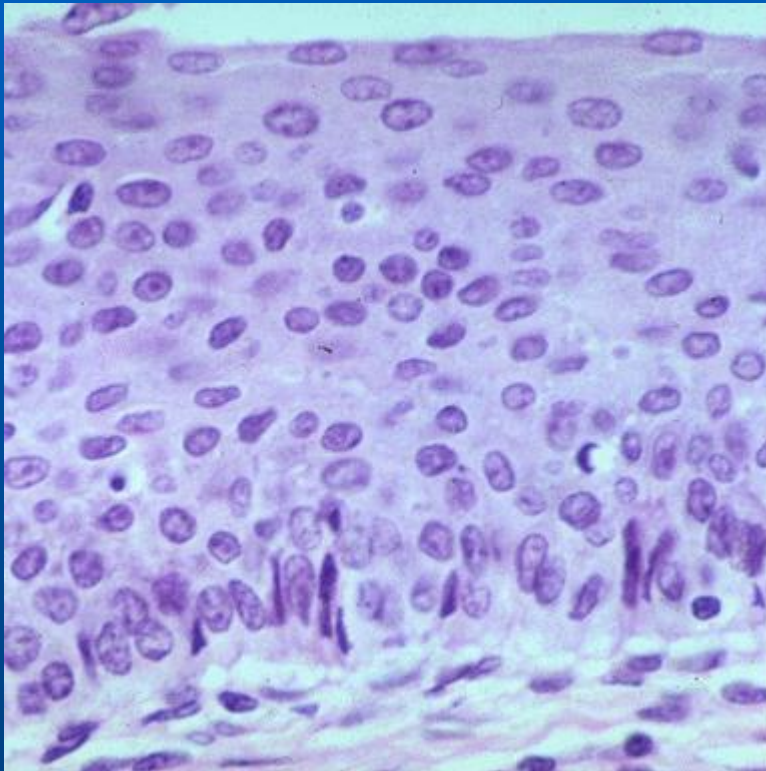
Mature metaplasia



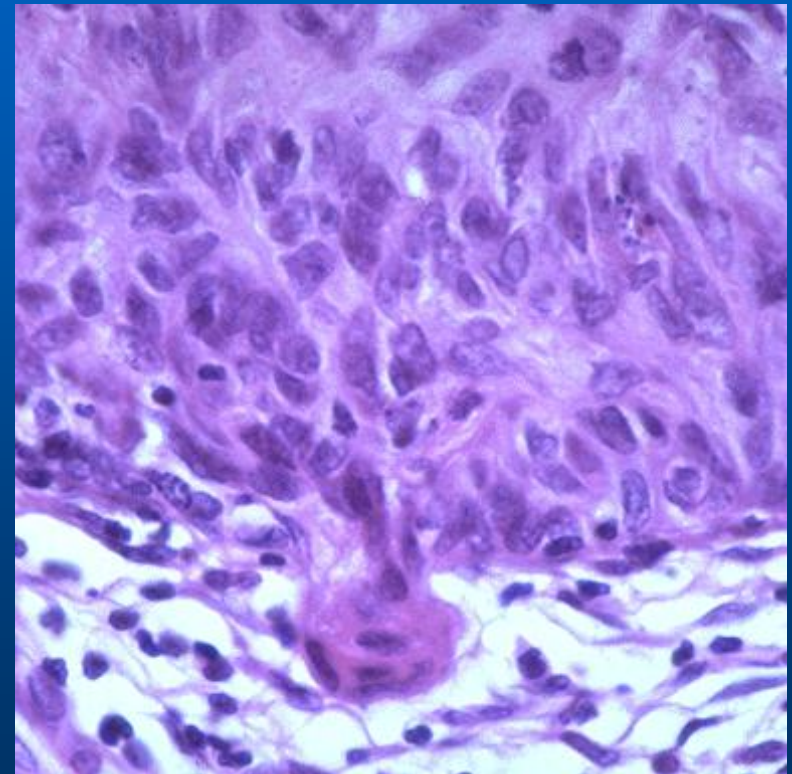
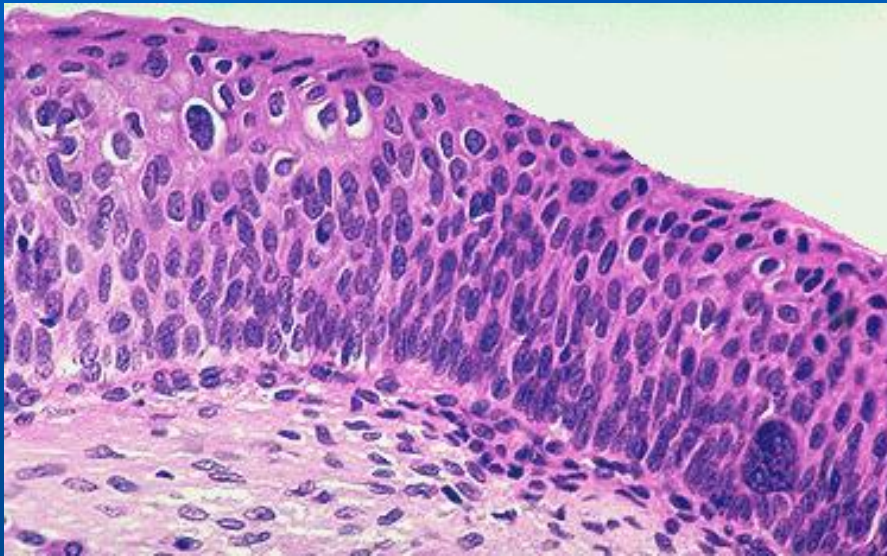
The new epithelium results from transformation of columnar to squamous epithelium, through the process of squamous metaplasia



CIN 1 & CIN 2



CIN 3

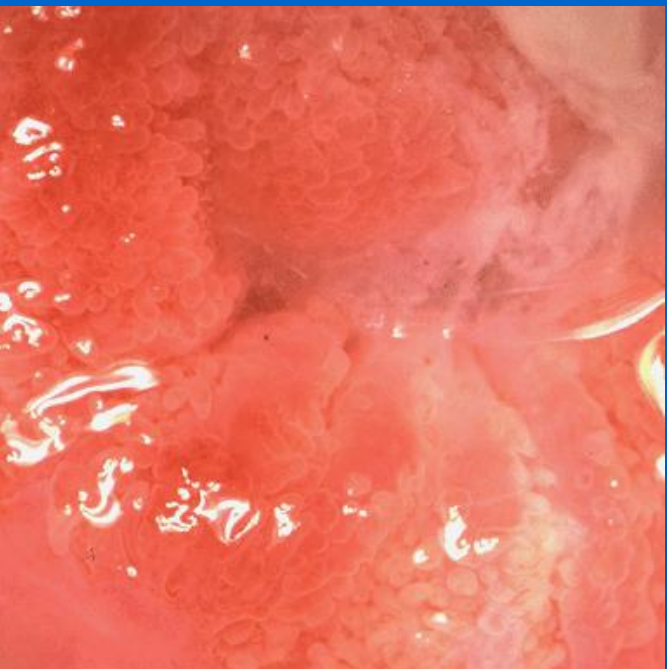


In *CIN 3* differentiation and stratification may be completely absent

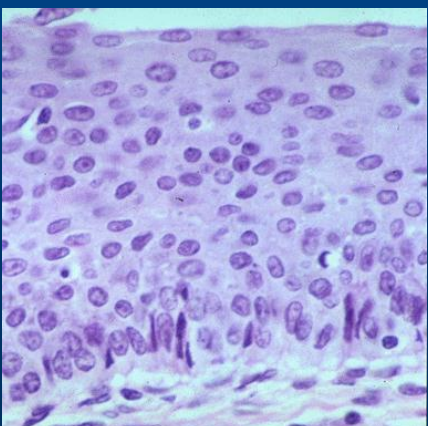
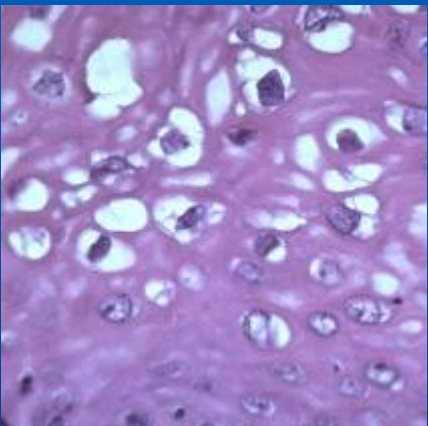
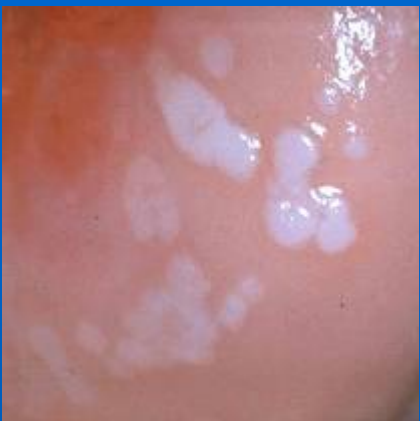
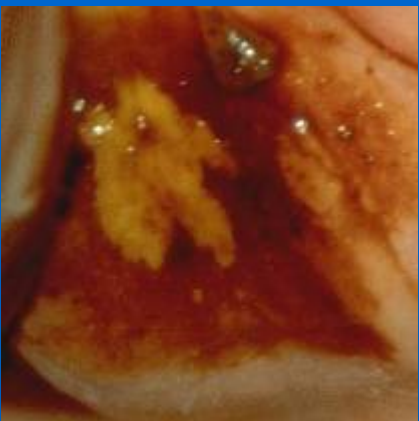
12% ; 2-10 years

In early stromal invasion a group of cells have breached the epithelial/stromal junction

Acetowhite change



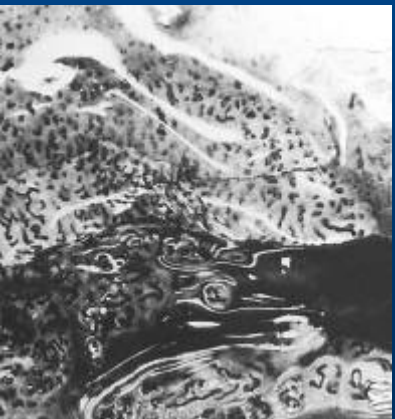
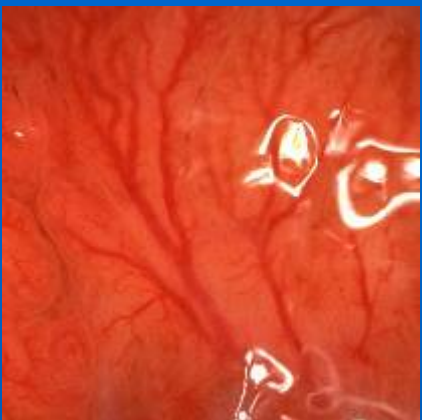
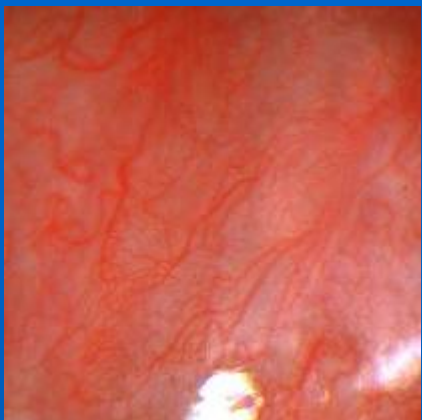
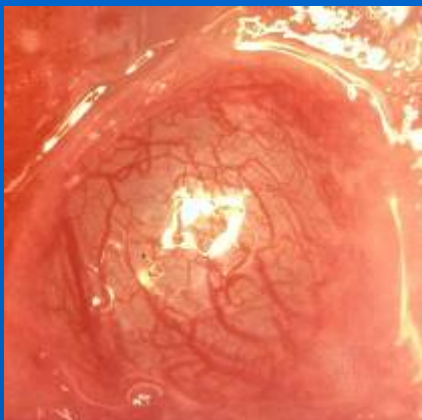
Acetowhite change



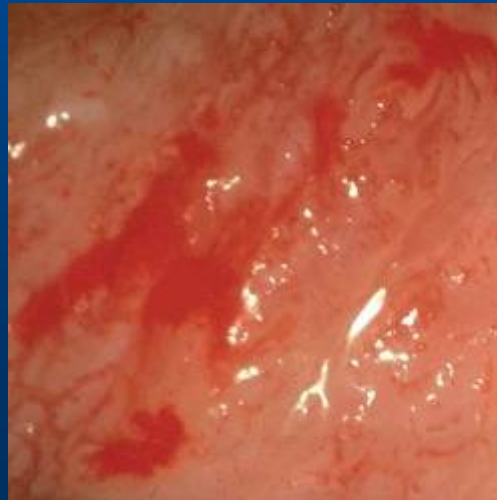
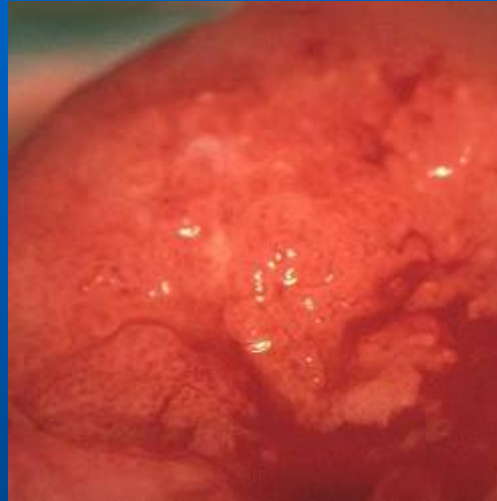
Acetowhite change



Vascular pattern



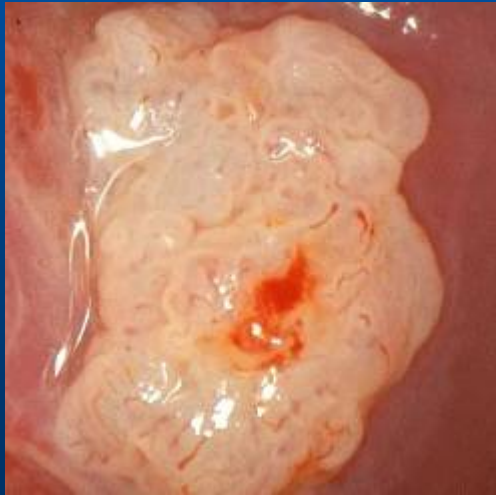
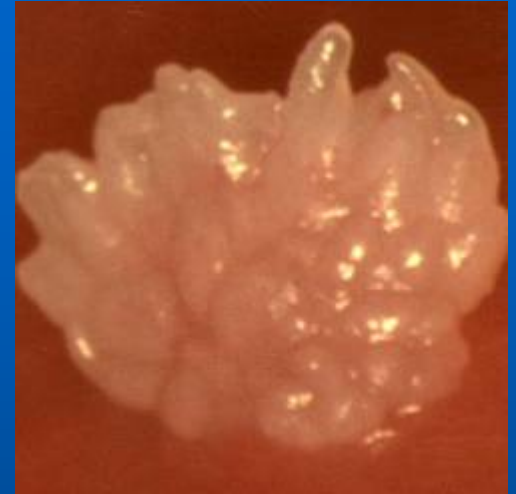
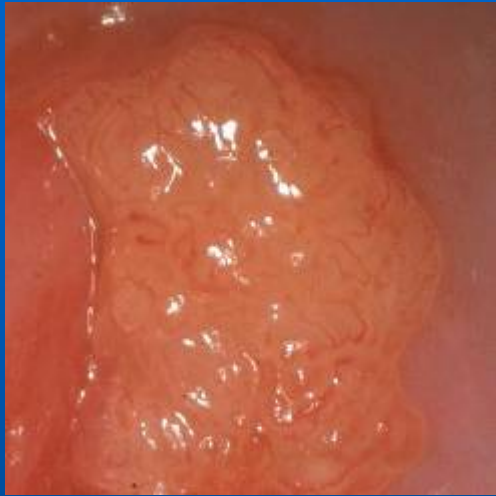
Invasive



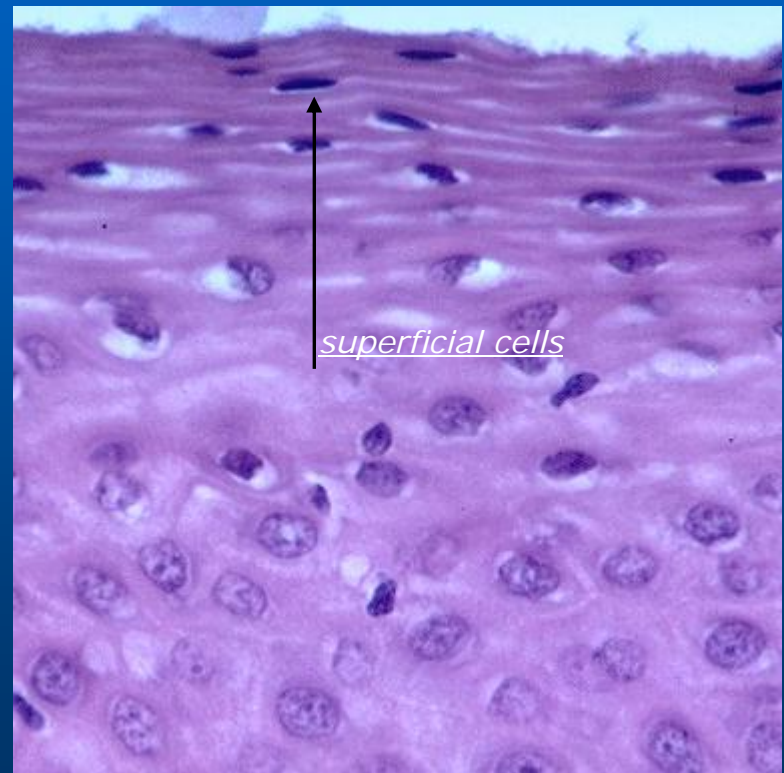
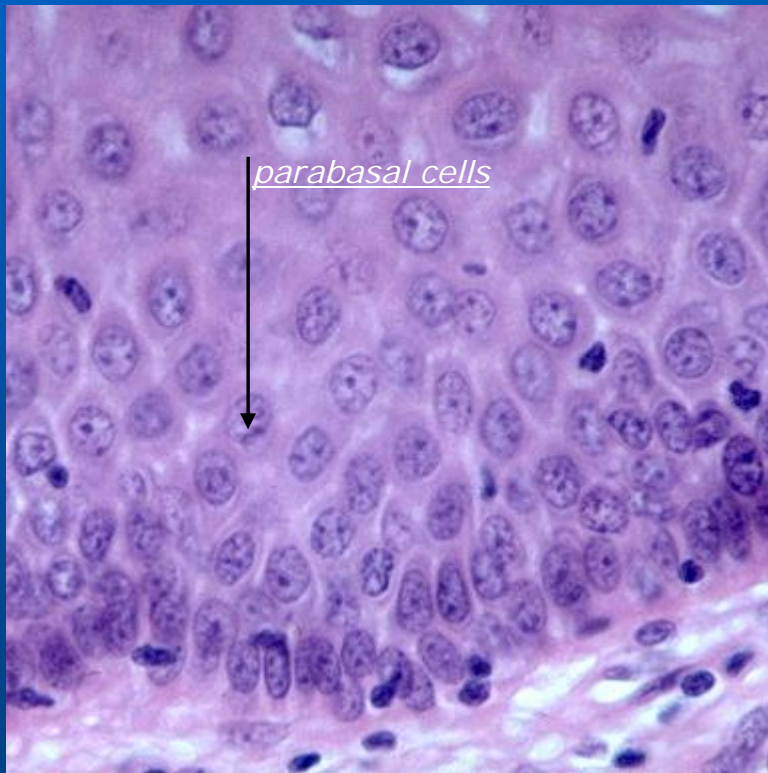
Vulval condylomata acuminata



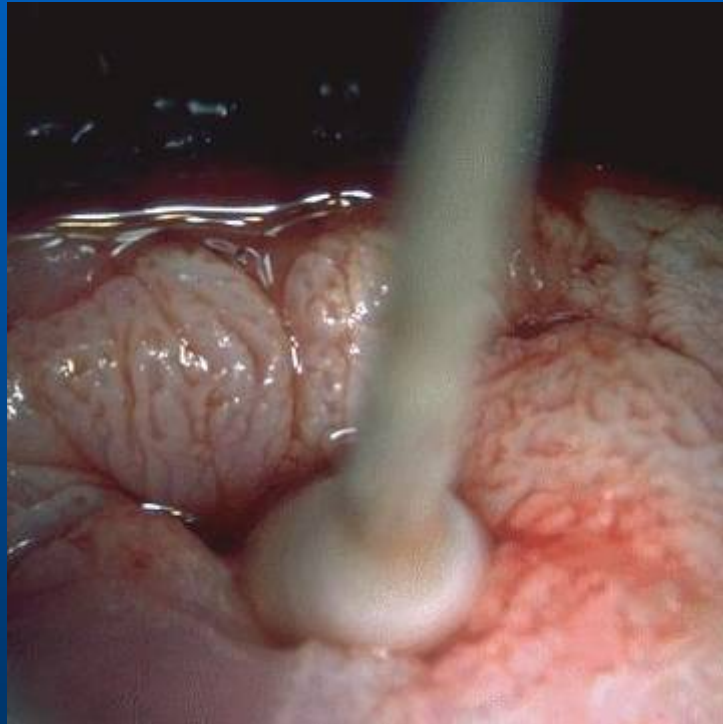
Condyloma



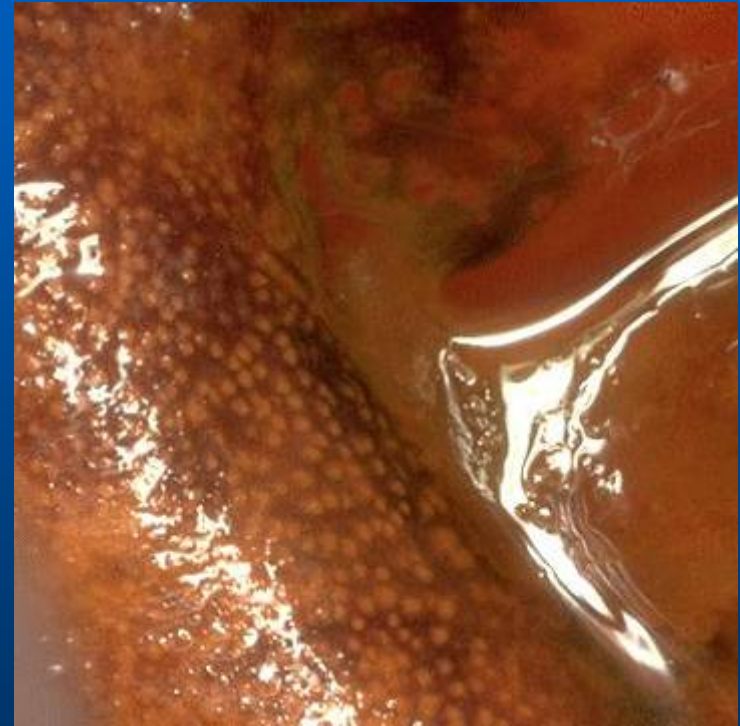
Squamous Epithelium



#1



#2



#3



#4



#5

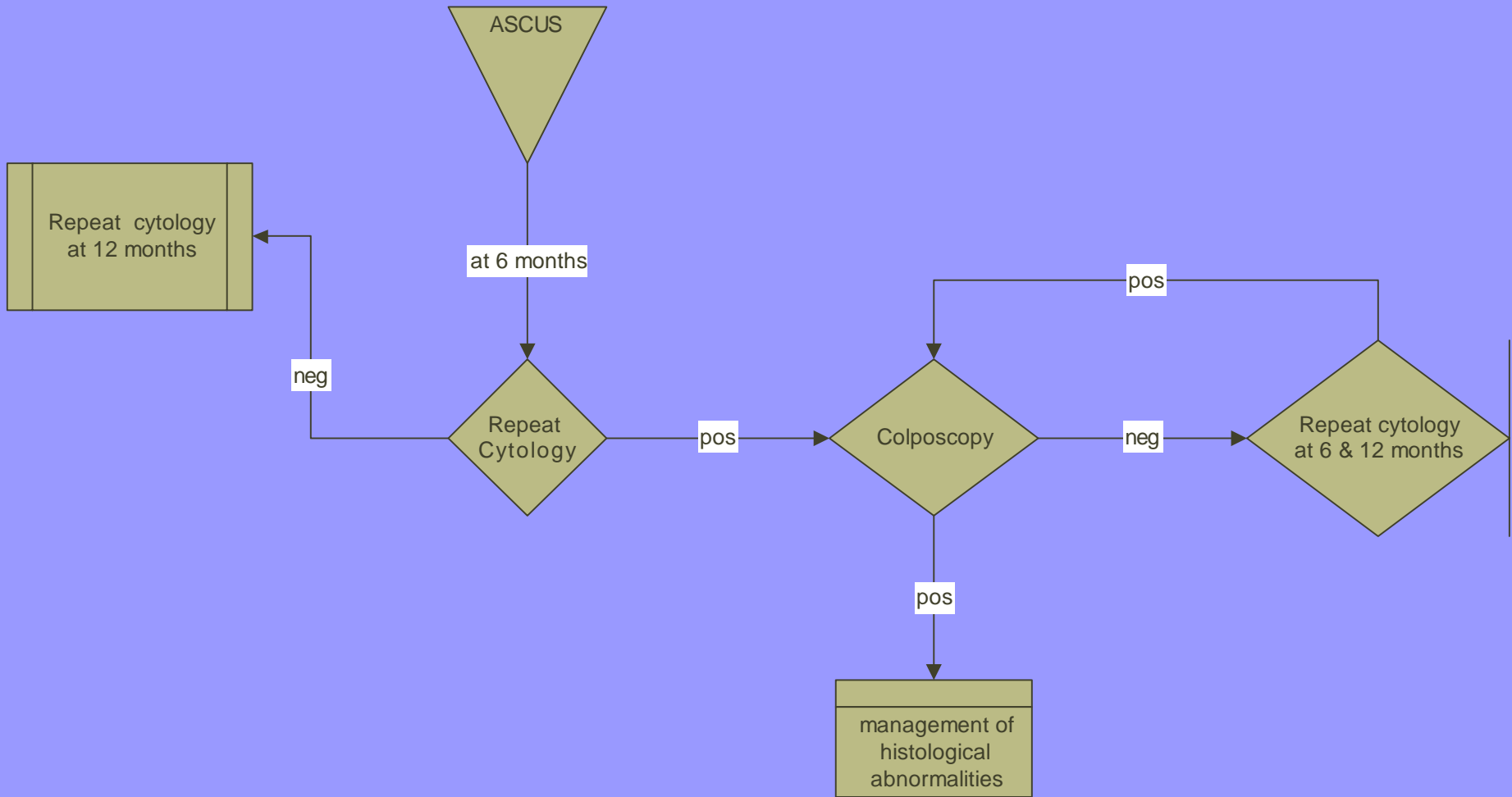


Nomenclature

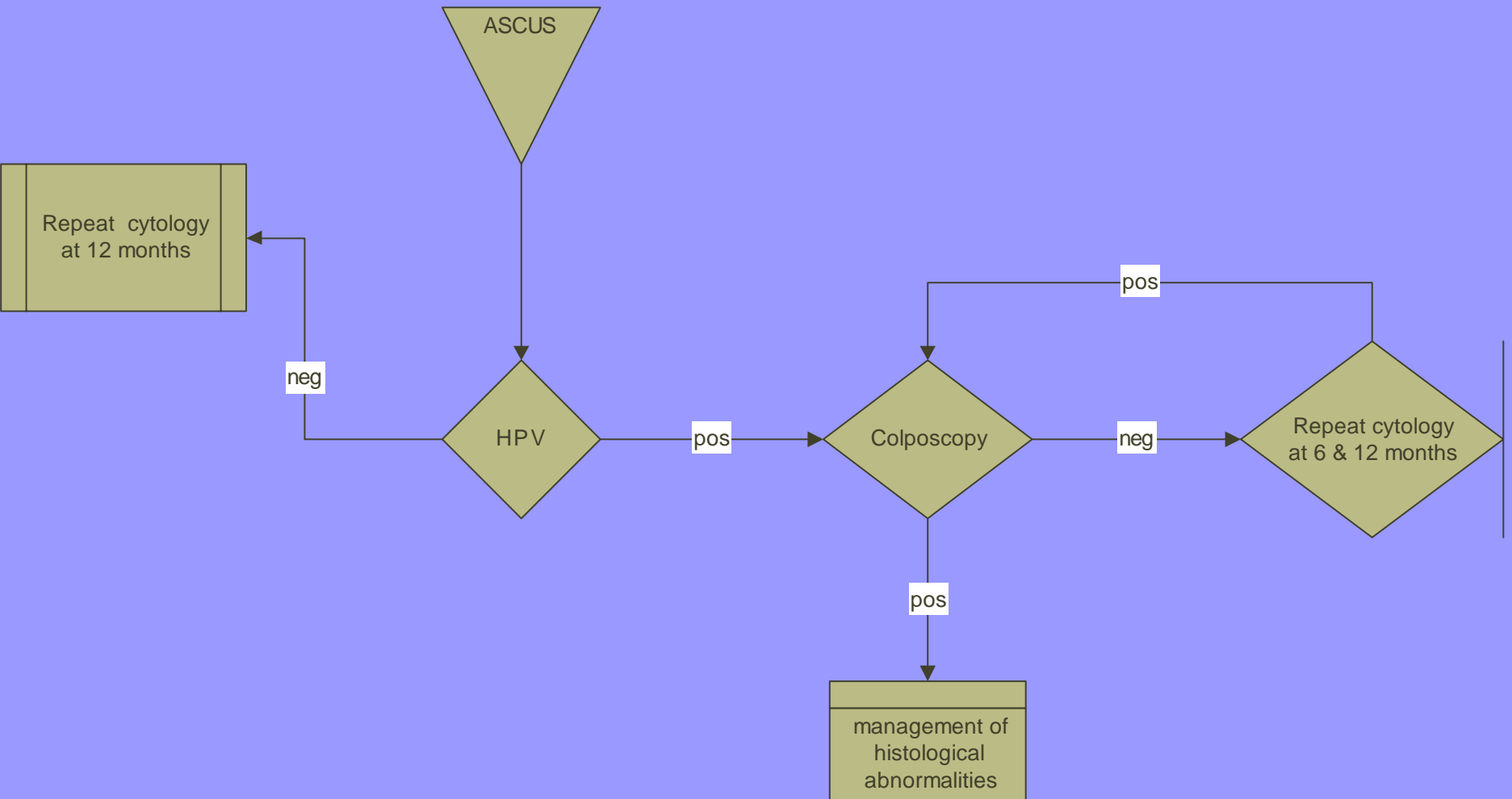
- The concept of *cervical intraepithelial neoplasia* proposes that all degrees of abnormality should be given the same name, as part of a continuous spectrum of disease

CIN I	CIN II	CIN III	
Mild Dysplasia	Moderate Dysplasia	Severe Dysplasia	Carcinoma in situ

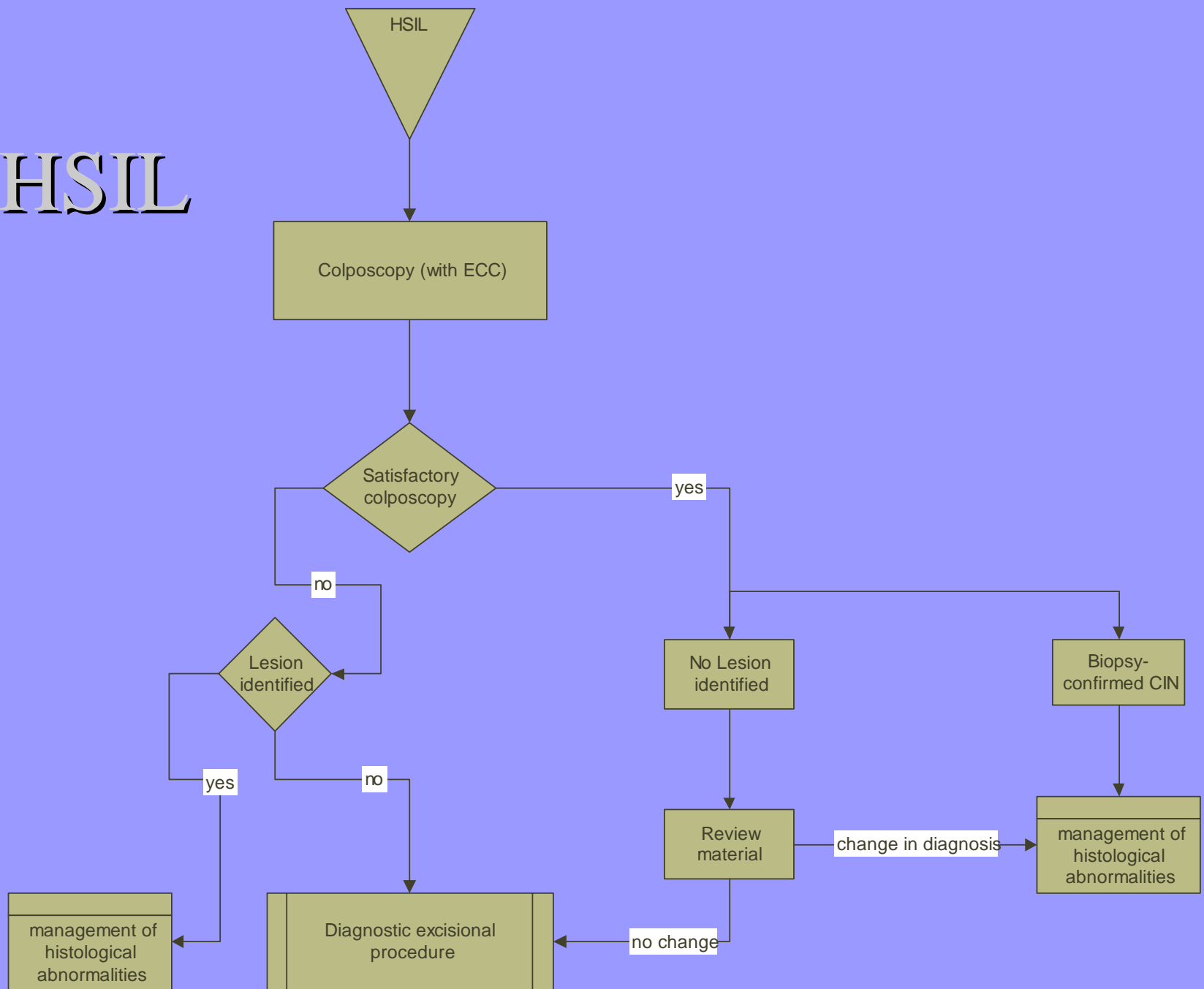
ASC-US



ASC-US



HSIL



AGC

AGC

Colposcopy (with ECC)
Endometrial sampling (> 35 years)

Invasive disease

yes

Refer to specialist

no

Initial Pap

AGC - favor neoplasia
or AIS

Diagnostic excisional
procedure (cold-knife
conization)

AGC - NOS

CIN or AIS

yes

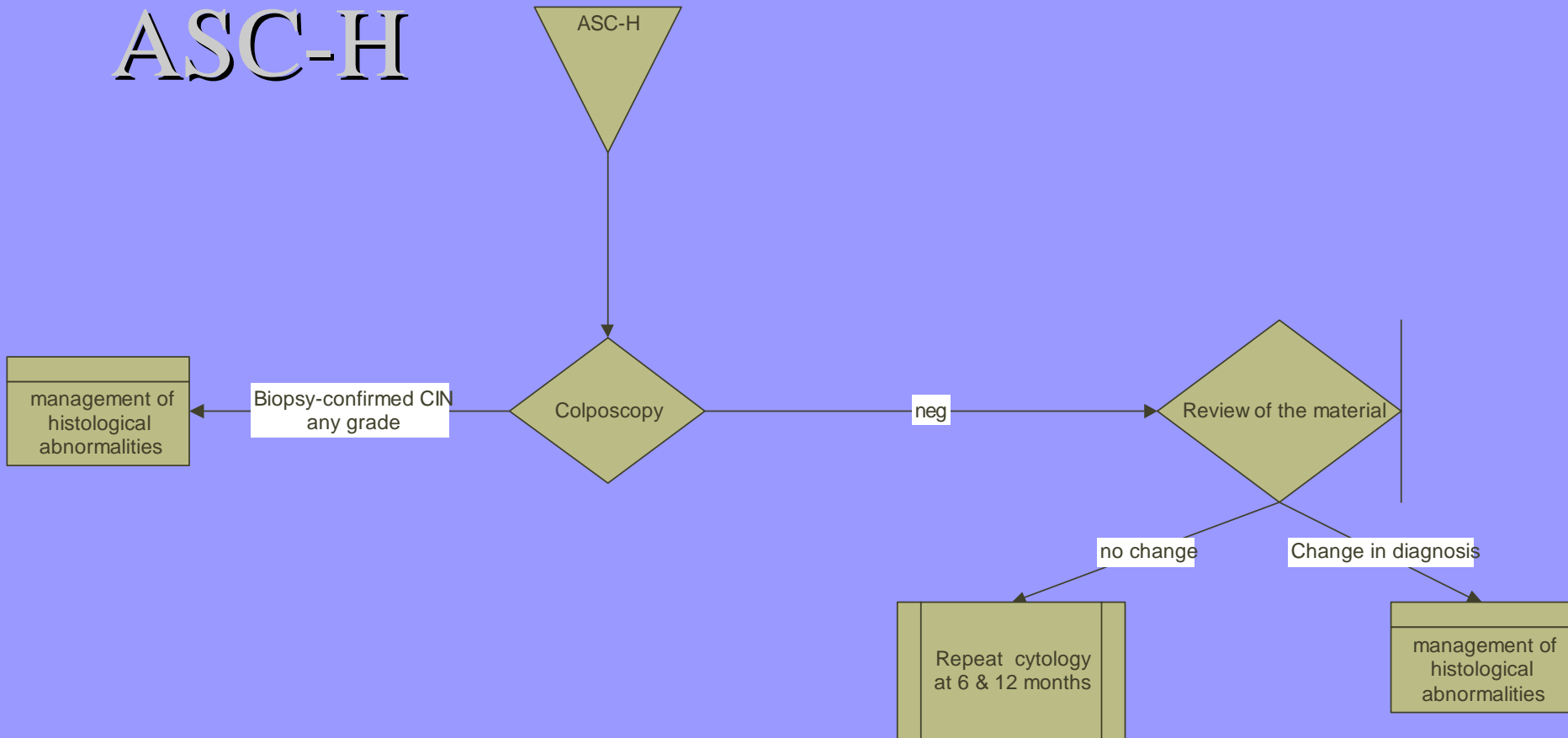
management of
histological
abnormalities

no

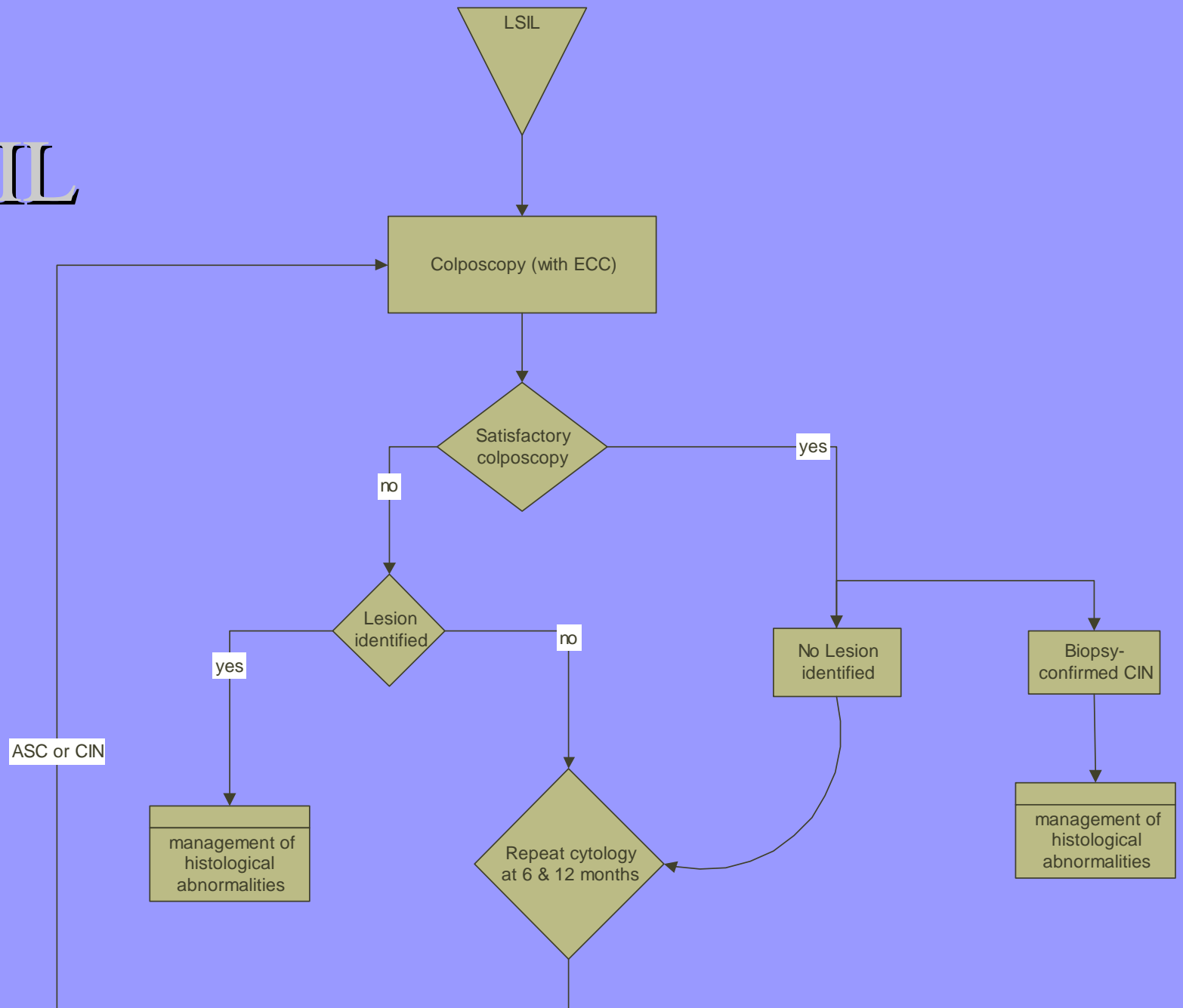
Repeat Cytology
every 6 months (4x)

HSIL or AGC

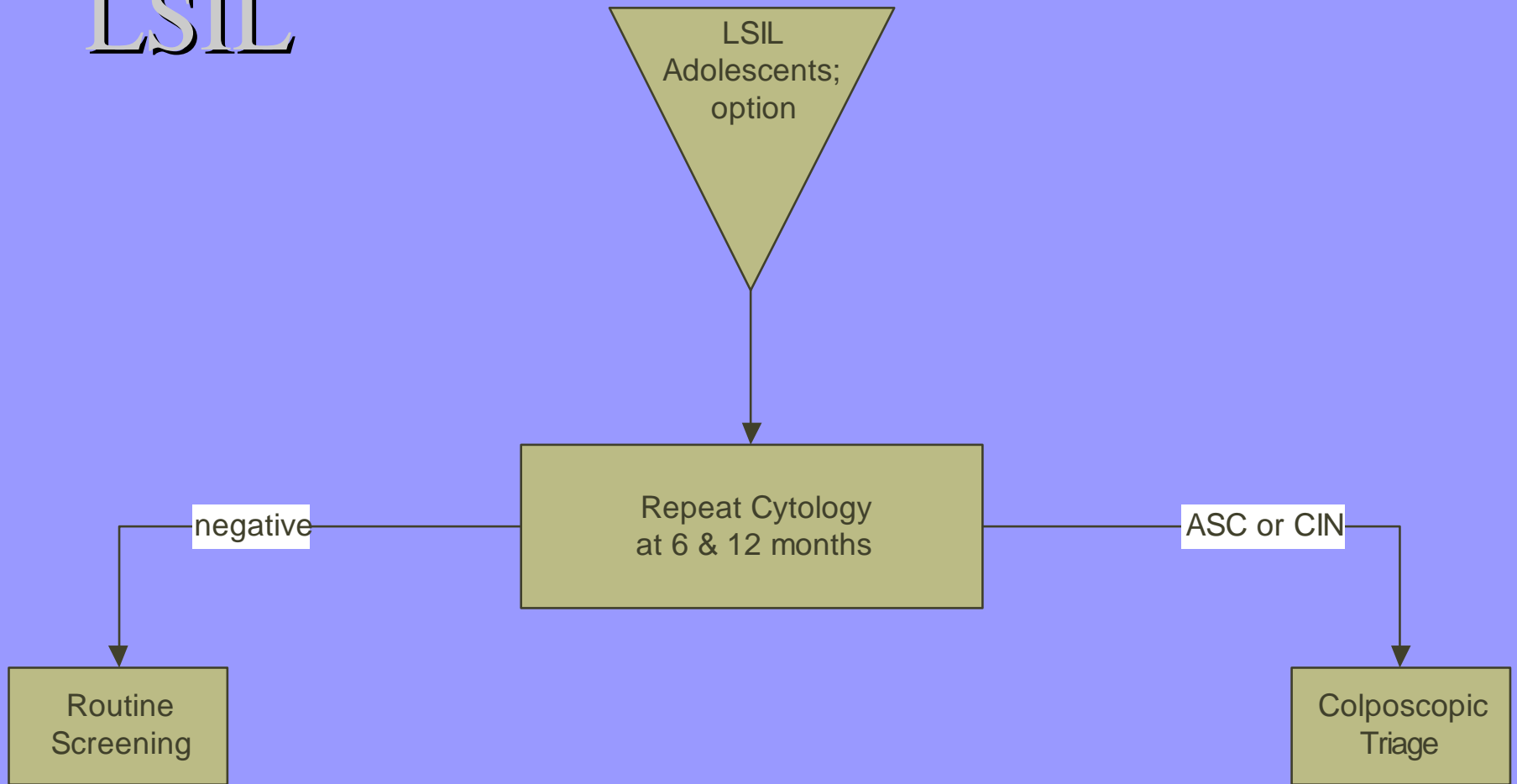
ASC-H

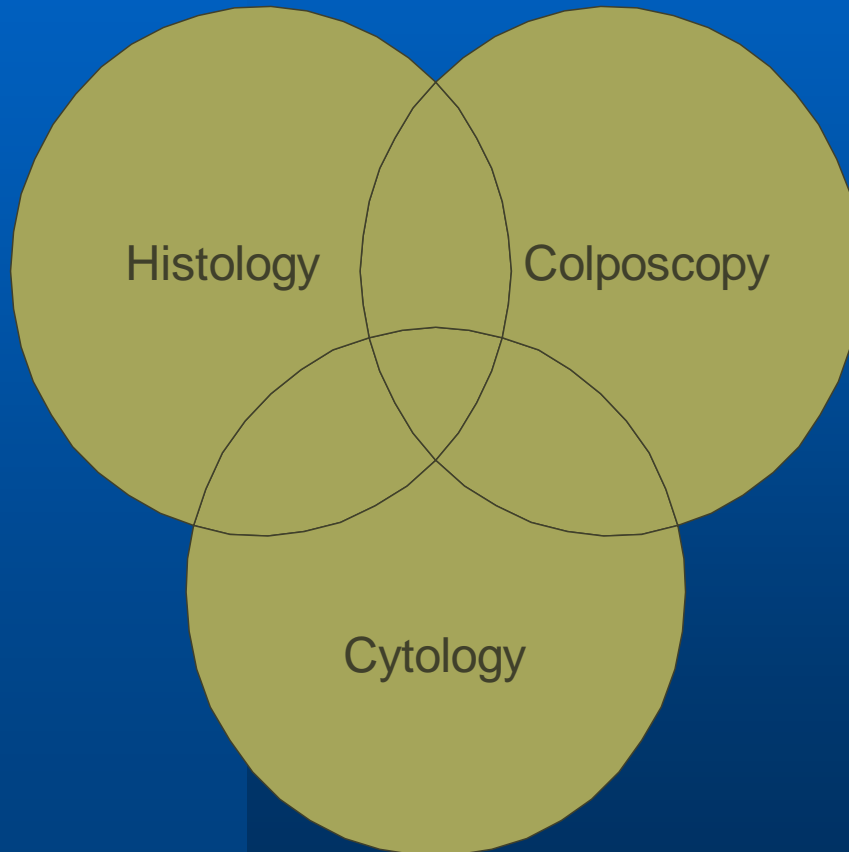


LSIL



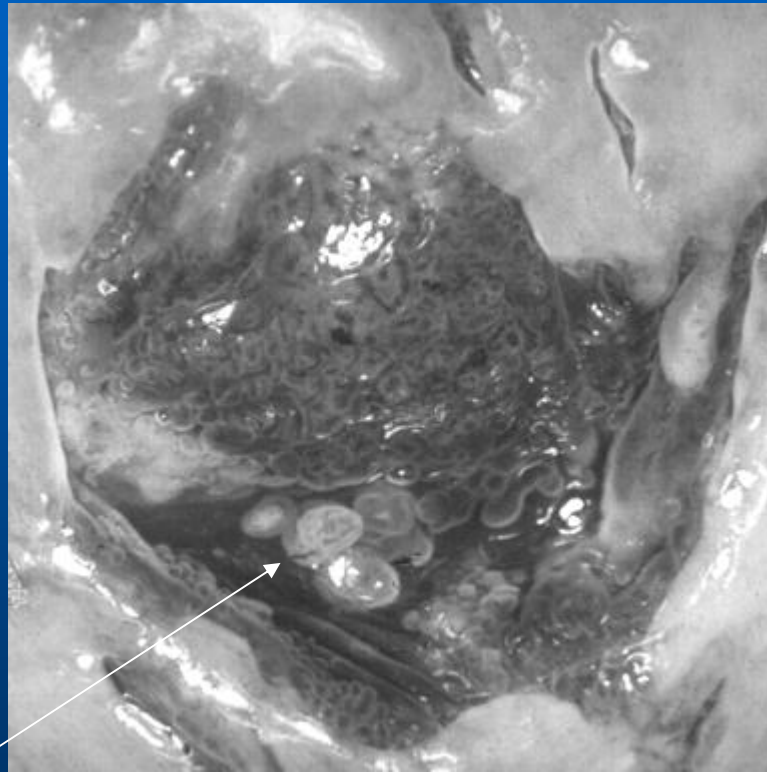
LSIL





It has been estimated that annual Pap smear testing reduces a woman's chance of dying of cervical cancer from 4 in 1000 to about 5 in 10,000 – a difference of almost 90%

Microglandular endocervical hyperplasia



polypoidal villi

non-pathologic condition

Nomenclature

CIN I	CIN II	CIN III	
Mild Dysplasia	Moderate Dysplasia	Severe Dysplasia	Carcinoma in situ

Screening

It has been estimated that annual Pap smear testing reduces a woman's chance of dying of cervical cancer from 4 in 1000 to about 5 in 10,000 – a difference of almost 90%

Microglandular endocervical hyperplasia

