



# Introducing: The Squamous Spectrum

Margaret Sage  
March 2019

# Bethesda 2001

Atypical Squamous Cells (ASC)

- of undetermined significance (ASC-US)

**LSIL:** Low-grade Squamous Intraepithelial Lesion

Atypical Squamous Cells (ASC)

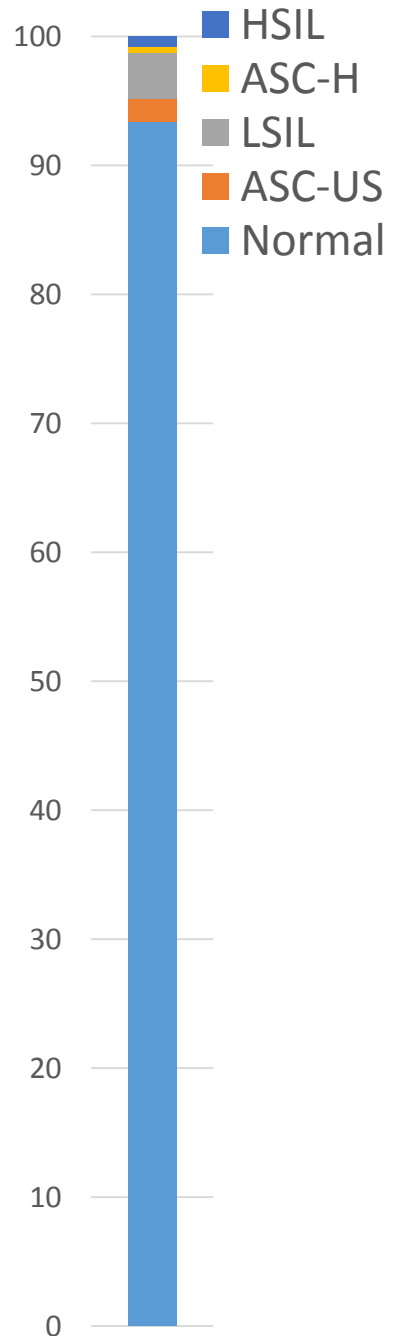
- cannot exclude HSIL (ASC-H)

**HSIL:** High-grade Squamous Intraepithelial Lesion

(+/- with features suspicious for invasion)

Squamous Cell Carcinoma

## CYTOLOGY



# Squamous abnormalities

Cytology

NZ samples \*

ASC-US

1.8%

LSIL

3.5%

*Low-grade*

ASC-H

0.5%

*High-grade*

HSIL

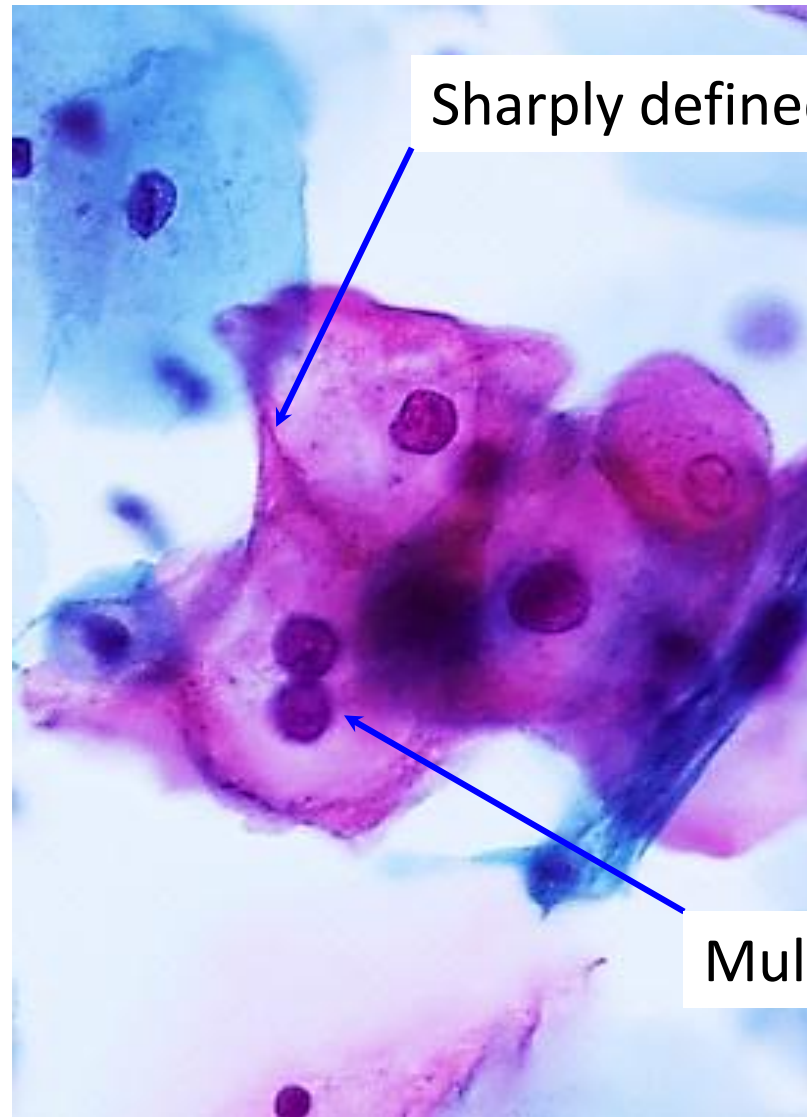
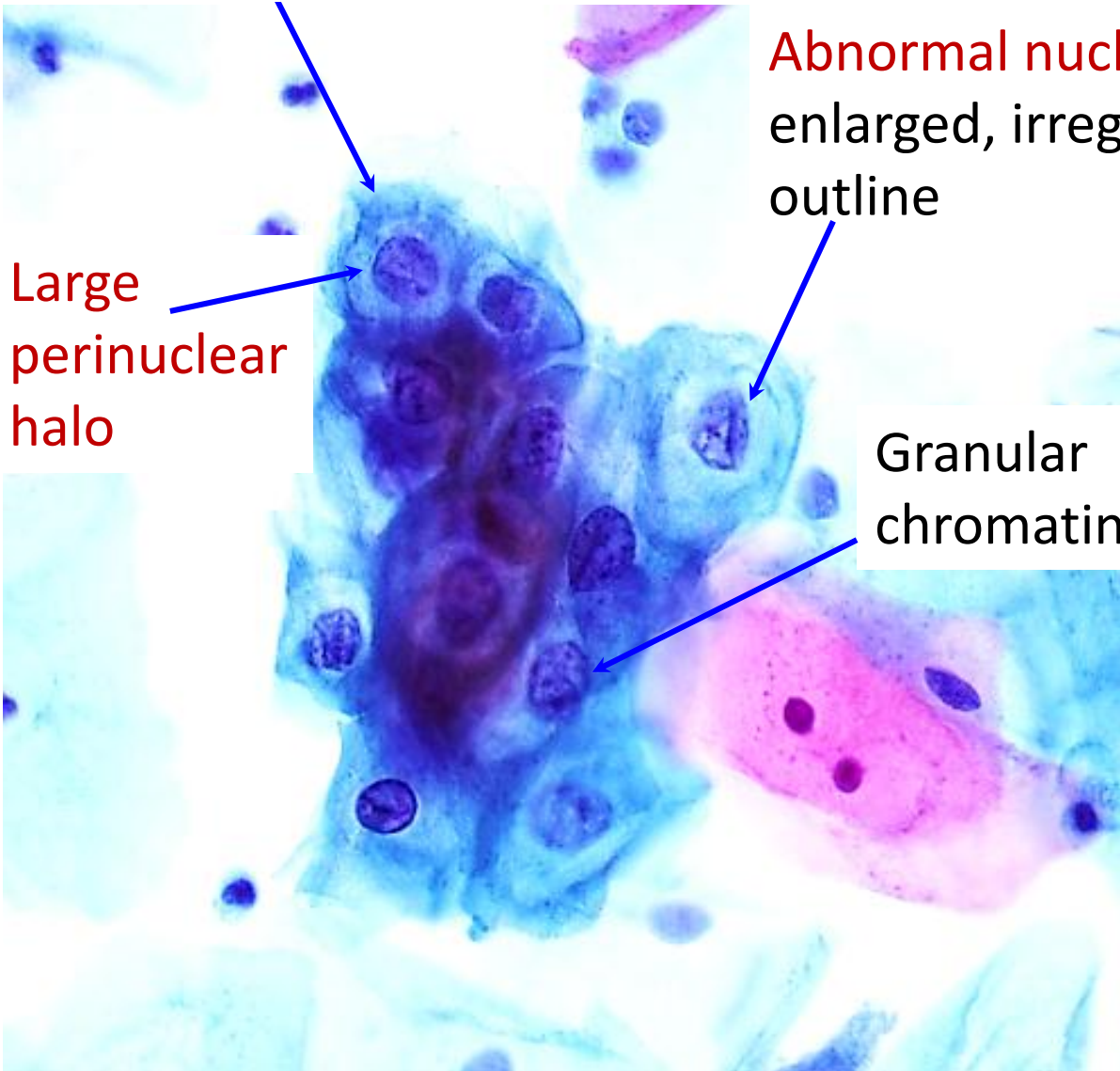
0.8%

- clinical outcome justifies cytology result categories
- ASC-US + LSIL cytology identifies almost as many HSIL histology cases as ASC-H + HSIL cytology

\*% of satisfactory samples Jan-June 2017 NCSP Monitoring Report 47

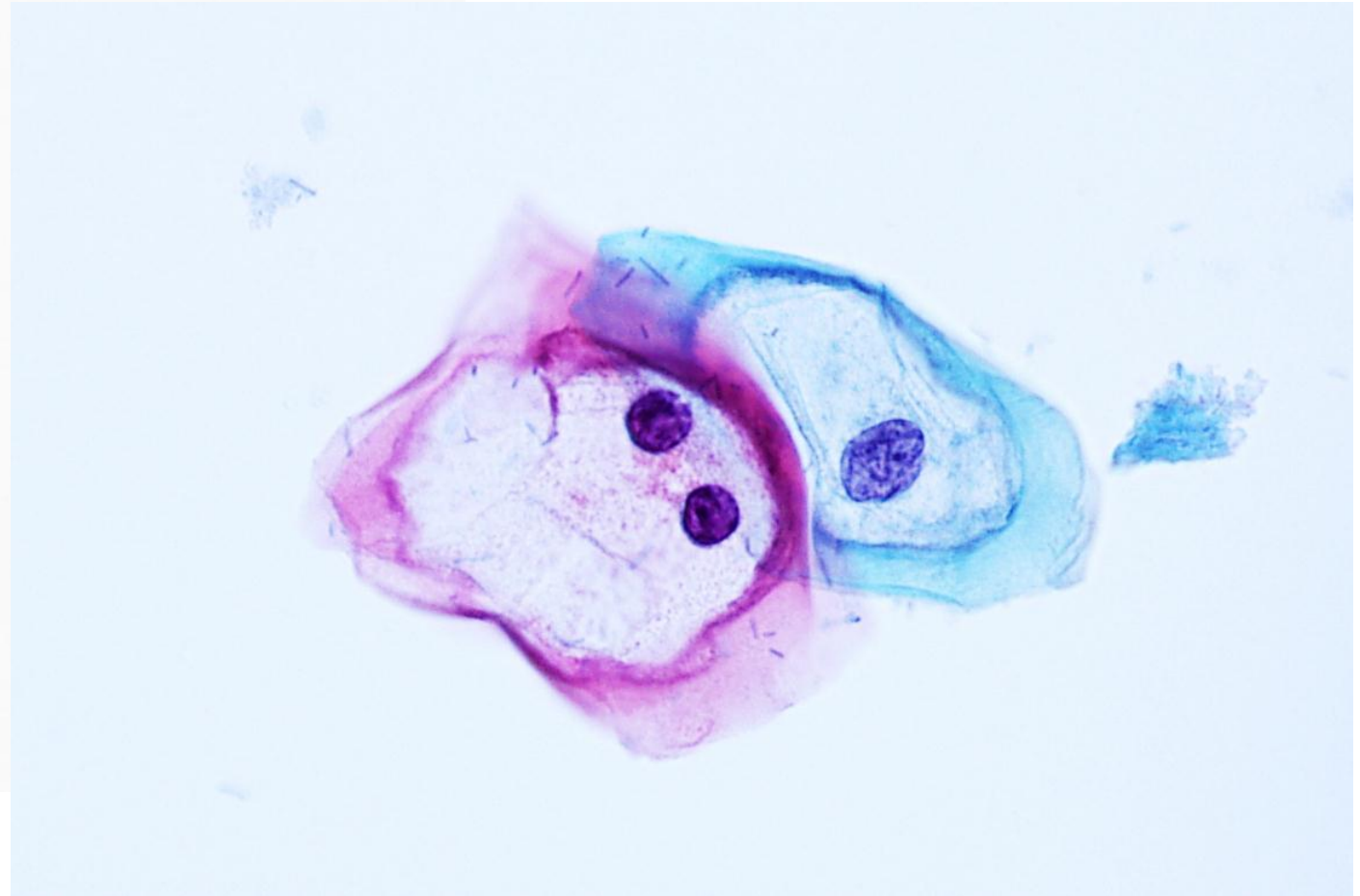
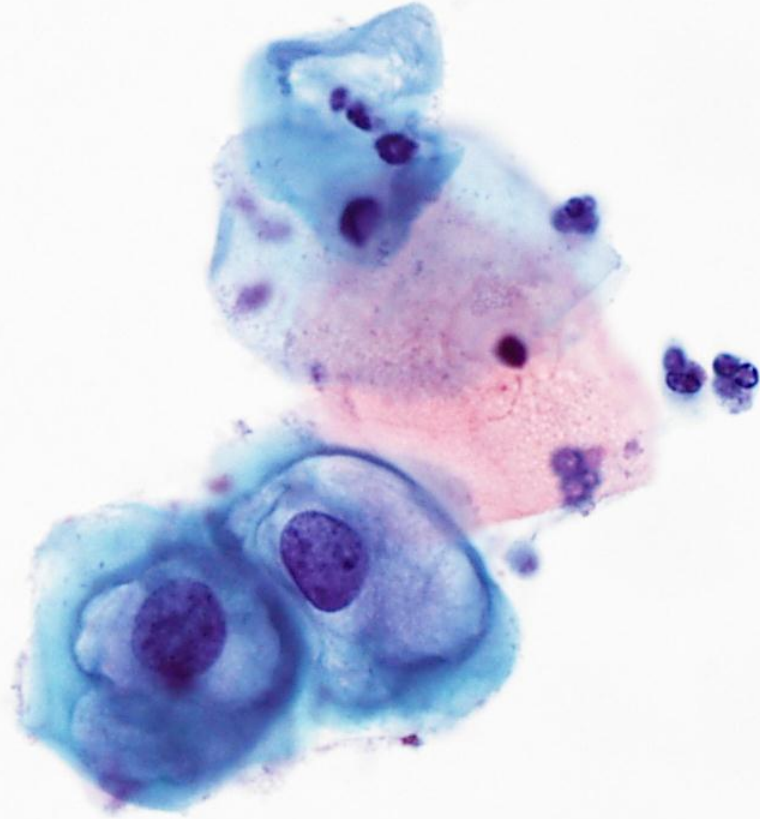
Condensation of peripheral cytoplasm

**LSIL: classic koilocytes**

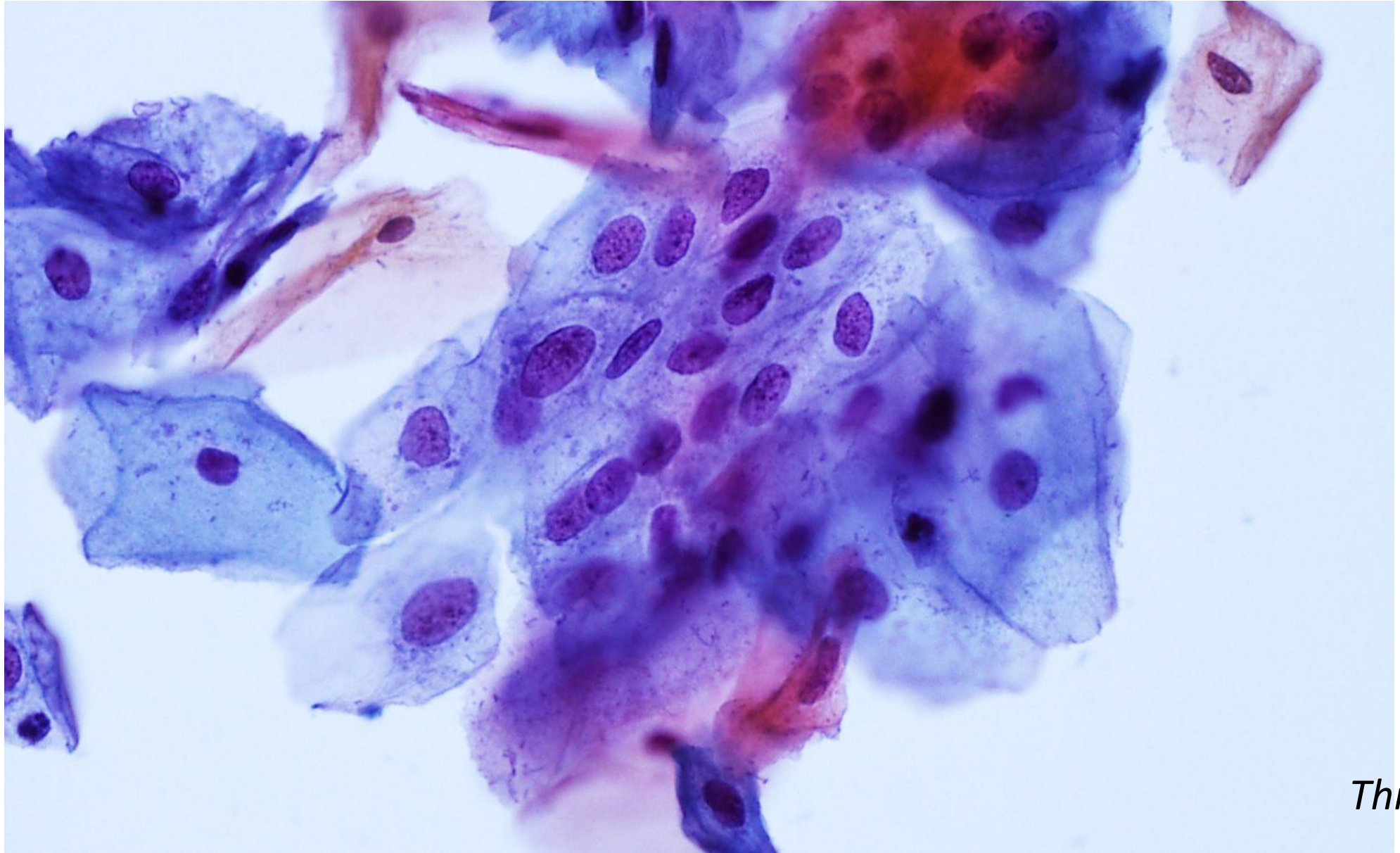


Multinucleation

# LSIL: Koilocytes

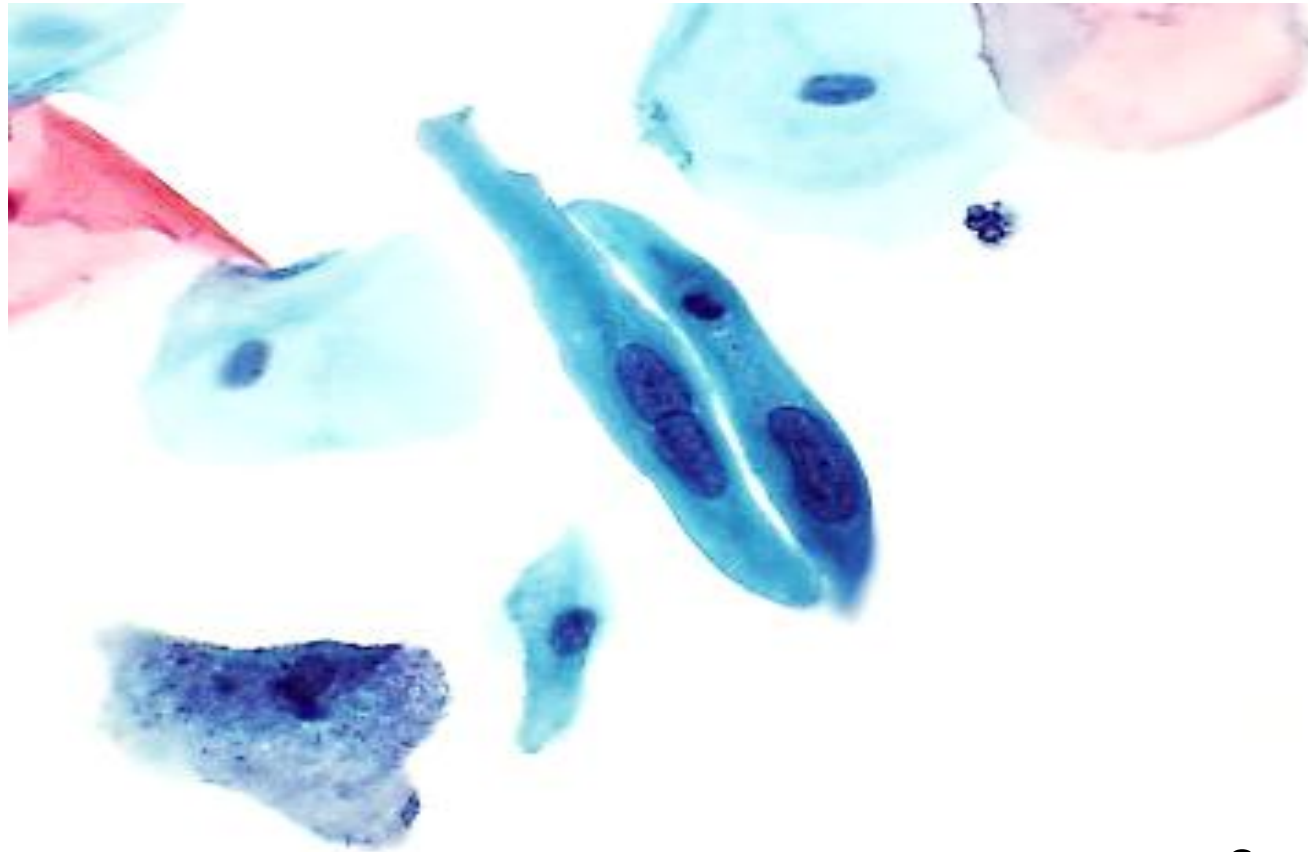


LSIL: not koilocytes



*ThinPrep*

ASC-US  
Atypical Squamous Cells of Undetermined Significance



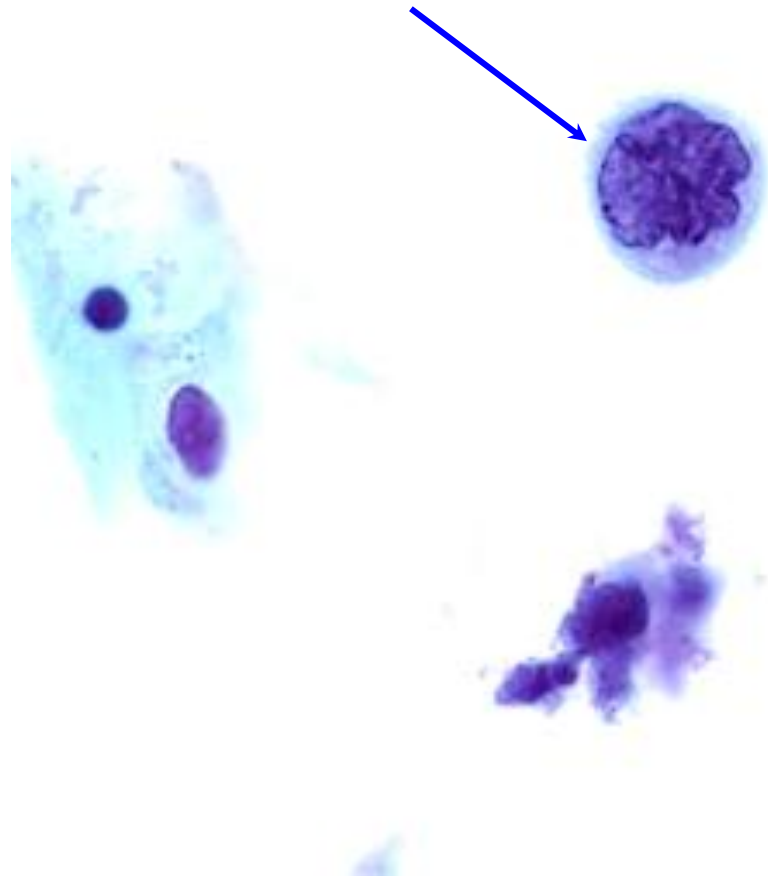
*SurePath*

# HSIL

## High N:C ratio

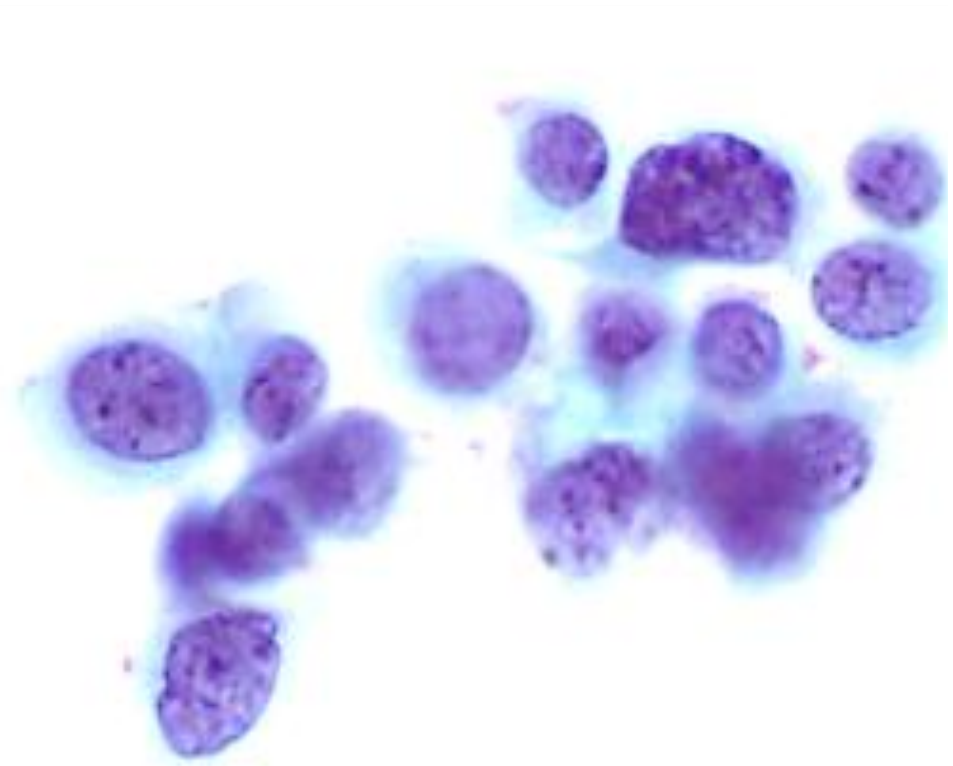
Hyperchromatic granular chromatin

Irregular nuclear outline



## Nuclear Variation

Size, shape, chromatin, outline





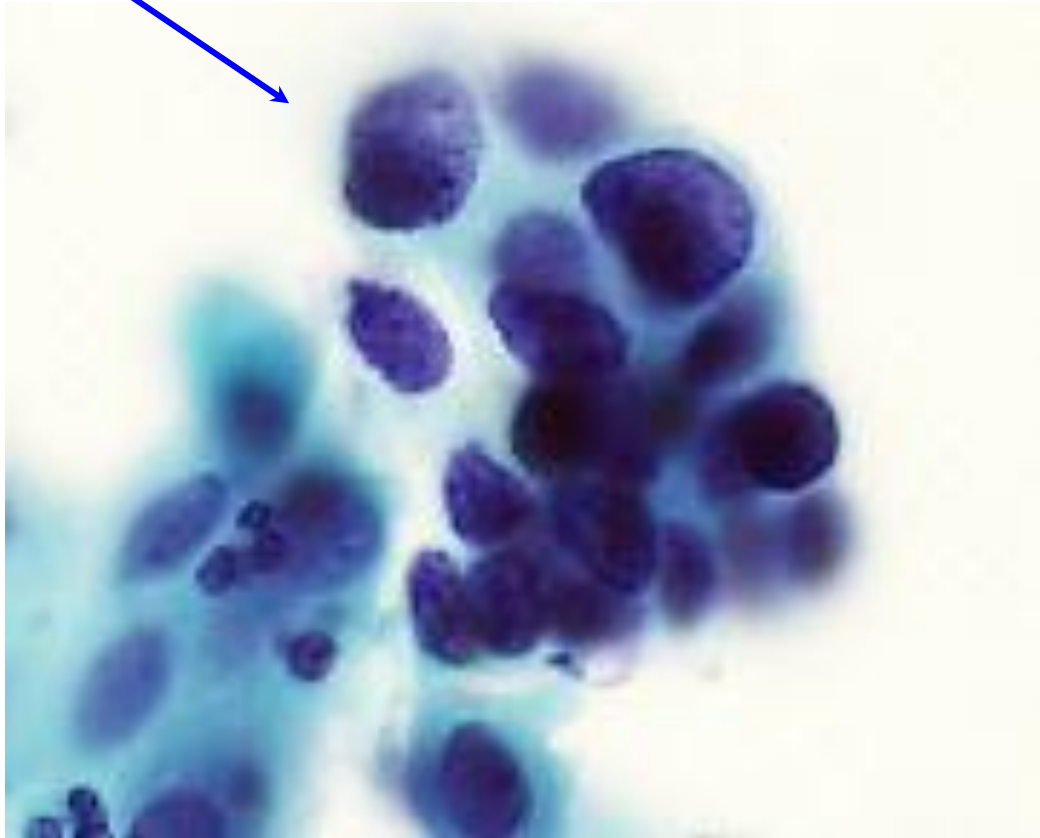
## High N:C ratio

Hyperchromatic granular chromatin

Irregular nuclear outlines

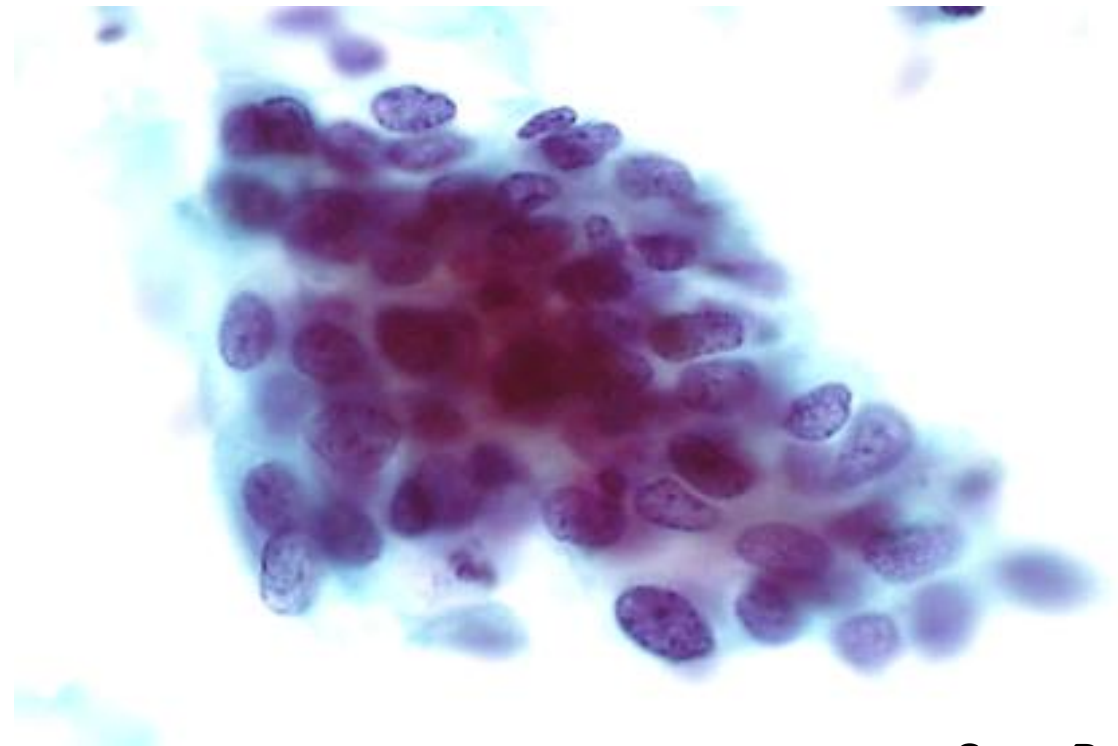
Nuclear variability

HSIL



## Crowded sheets

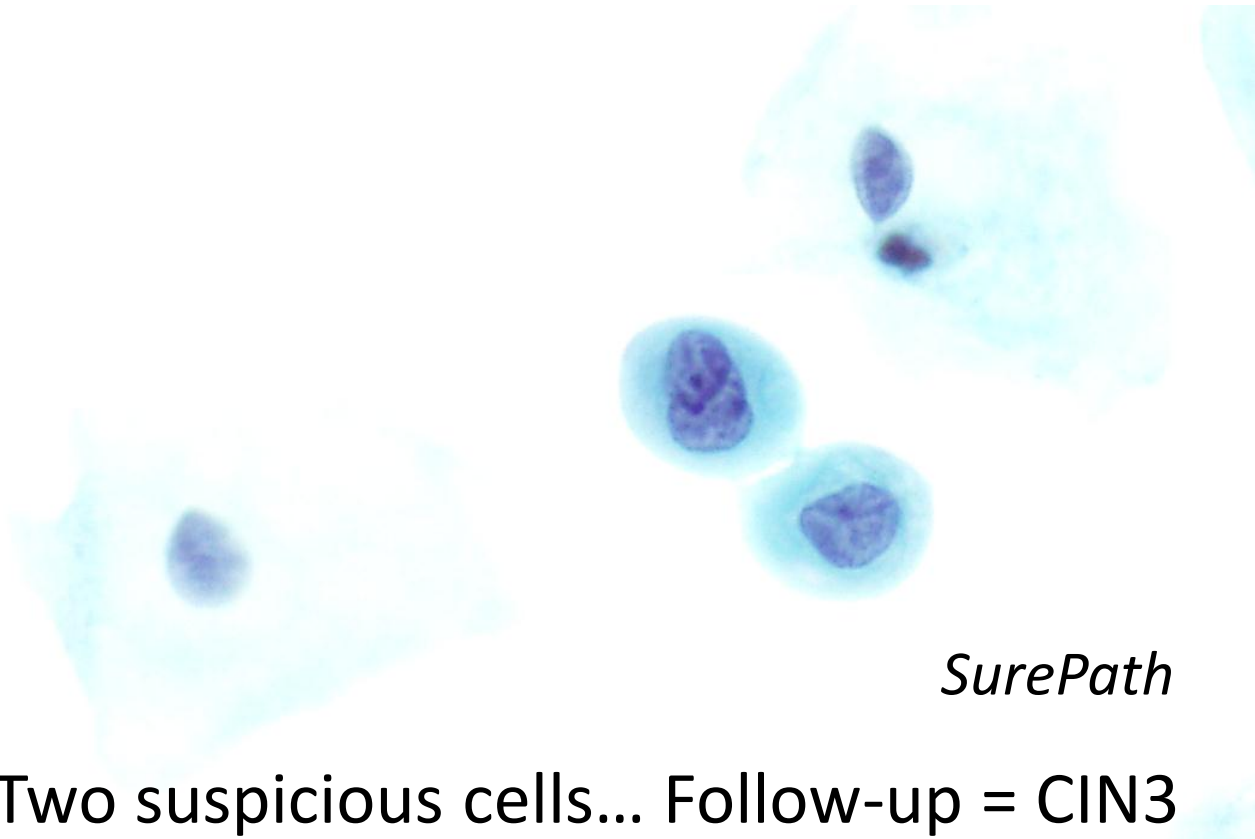
Thick, disorganised, high N:C cells,  
nuclear variability



*SurePath*

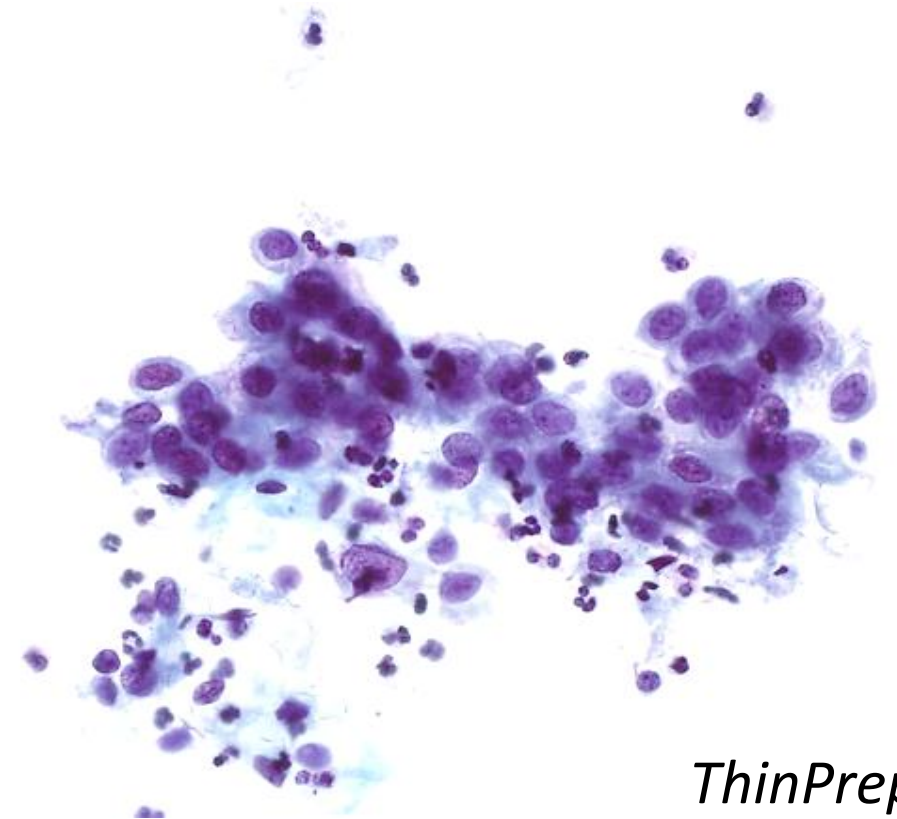
# ASC-H

Atypical Squamous Cells, possible High-grade



*SurePath*

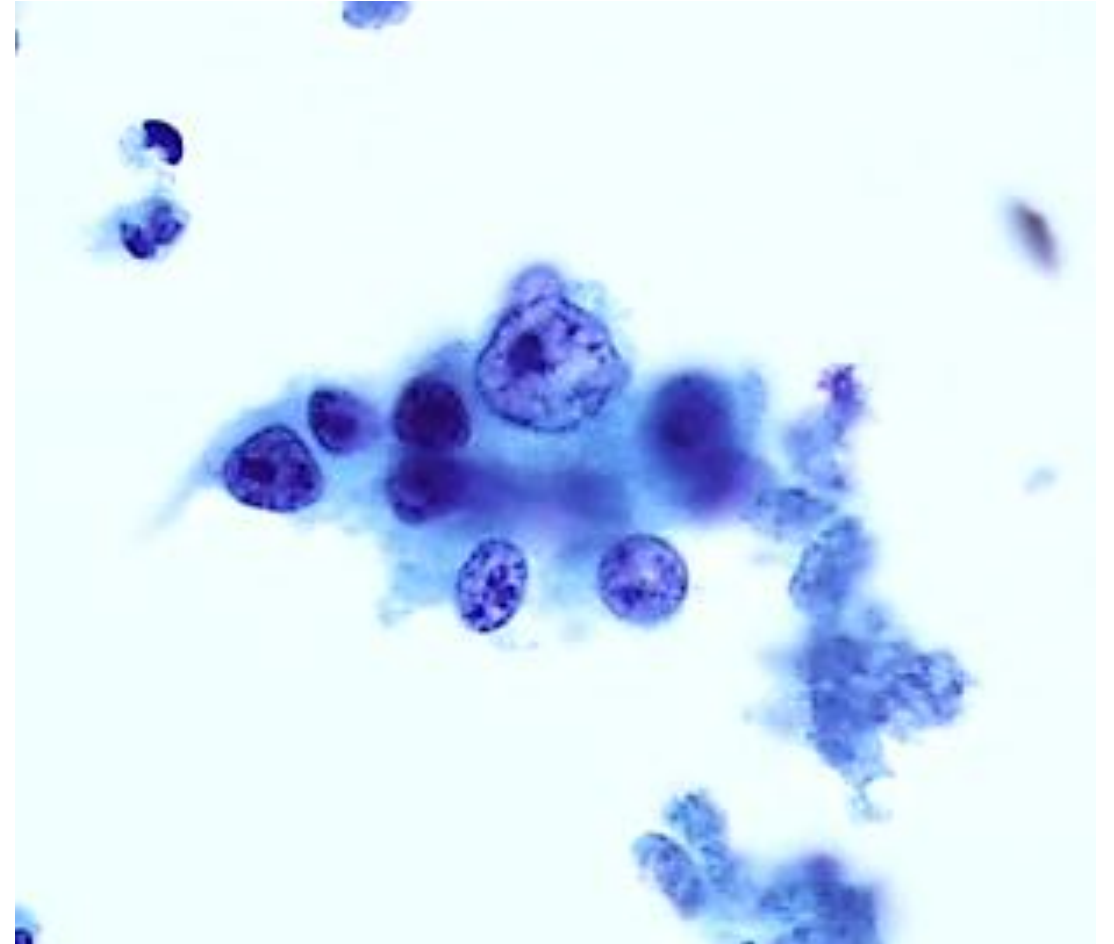
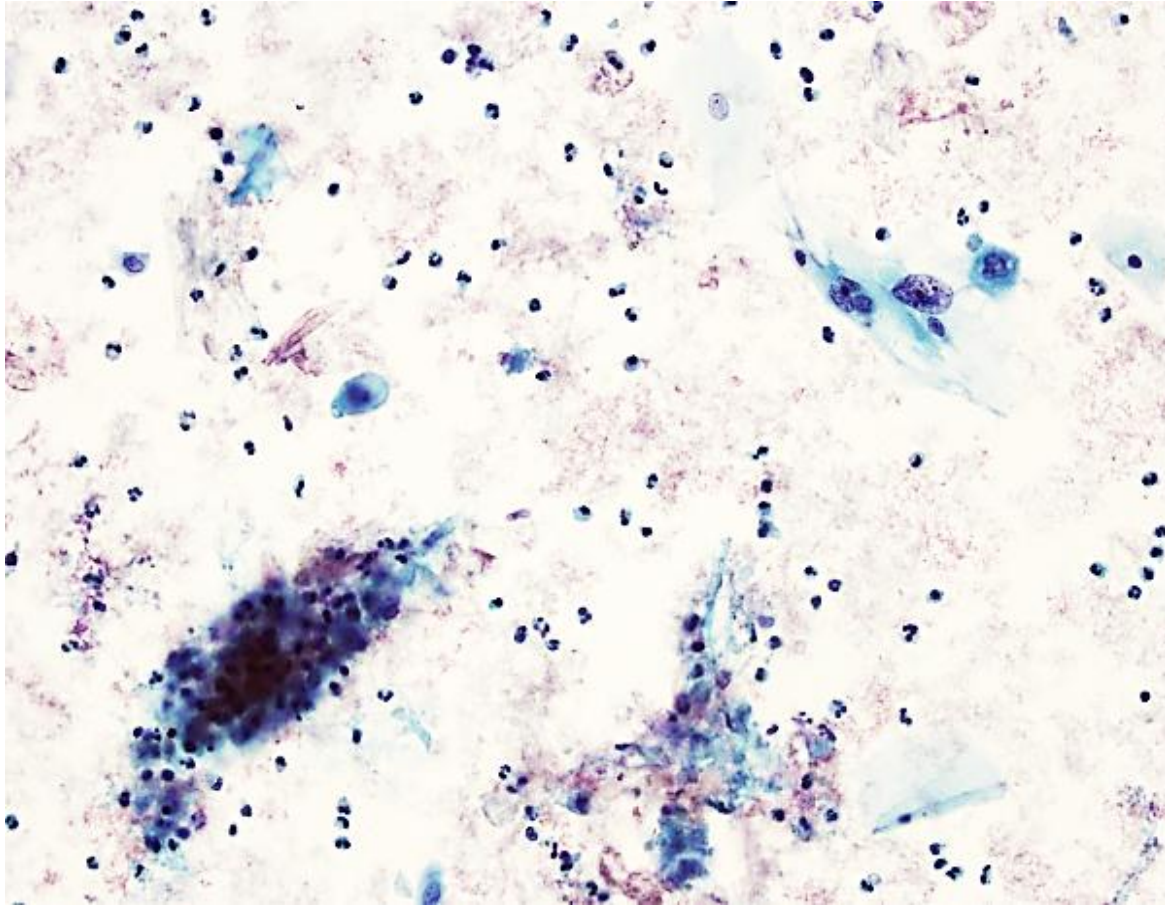
Two suspicious cells... Follow-up = CIN3



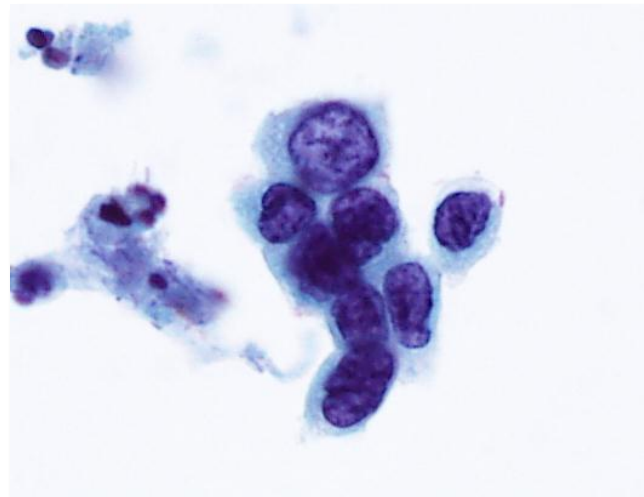
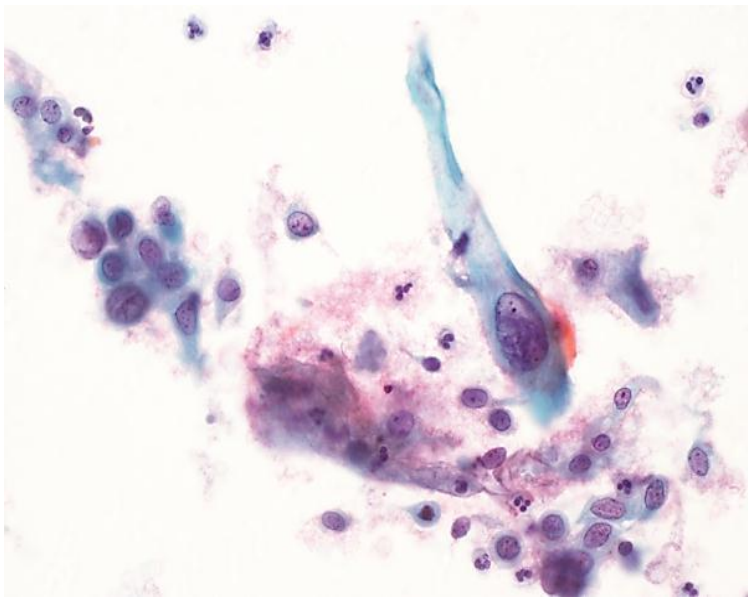
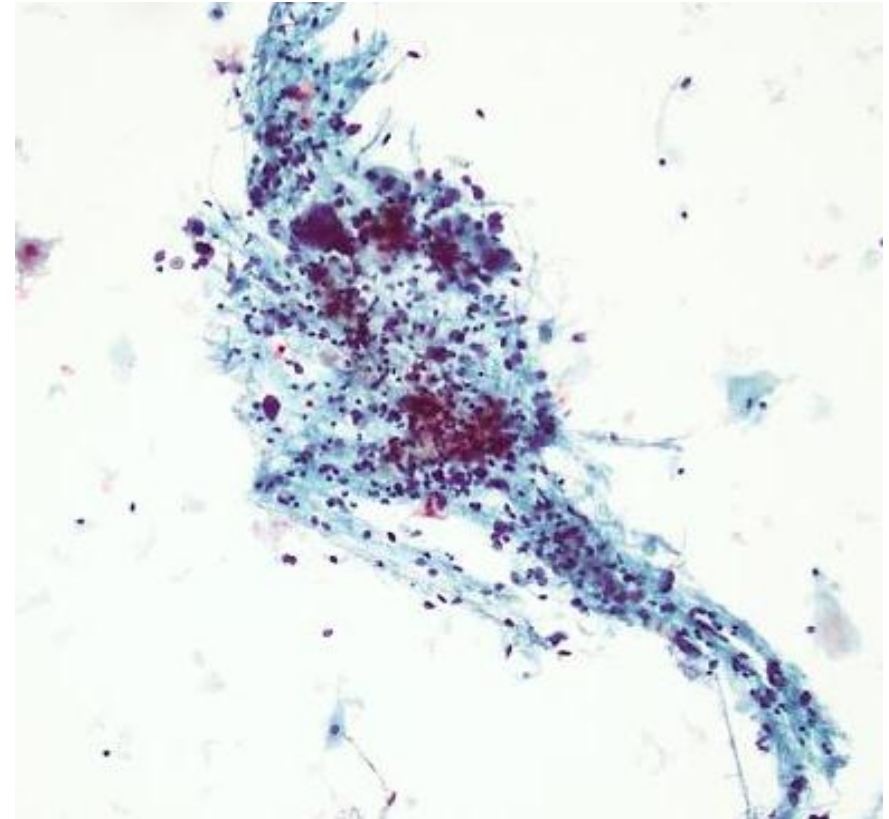
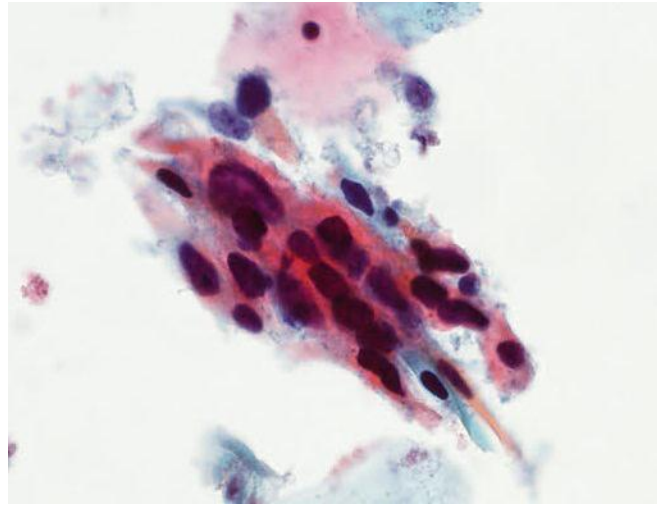
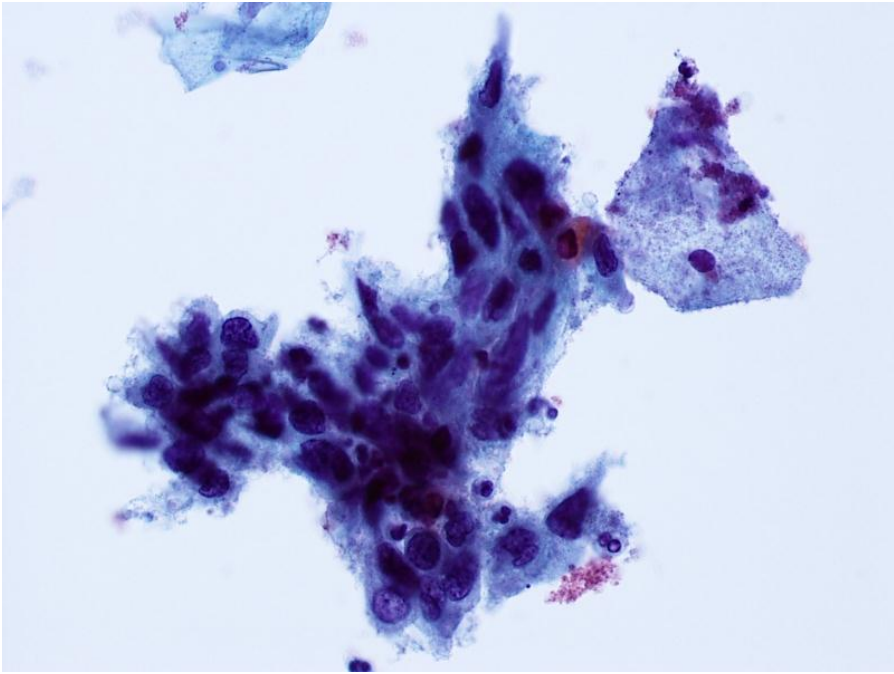
*ThinPrep*

Suspicious, some reactive features  
Follow-up = inflammation, cervicitis

# Squamous cell carcinoma

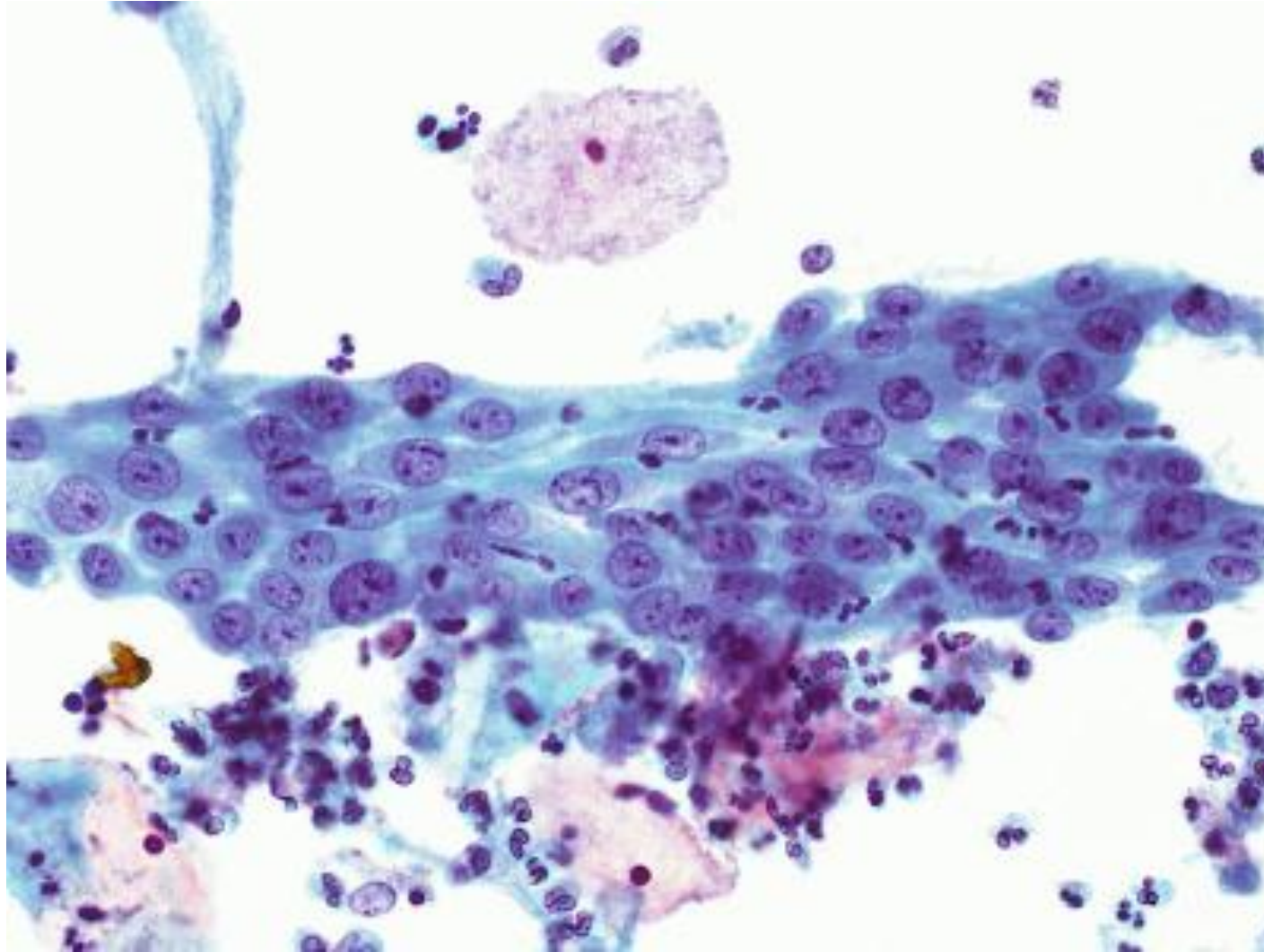


# Squamous cell carcinoma



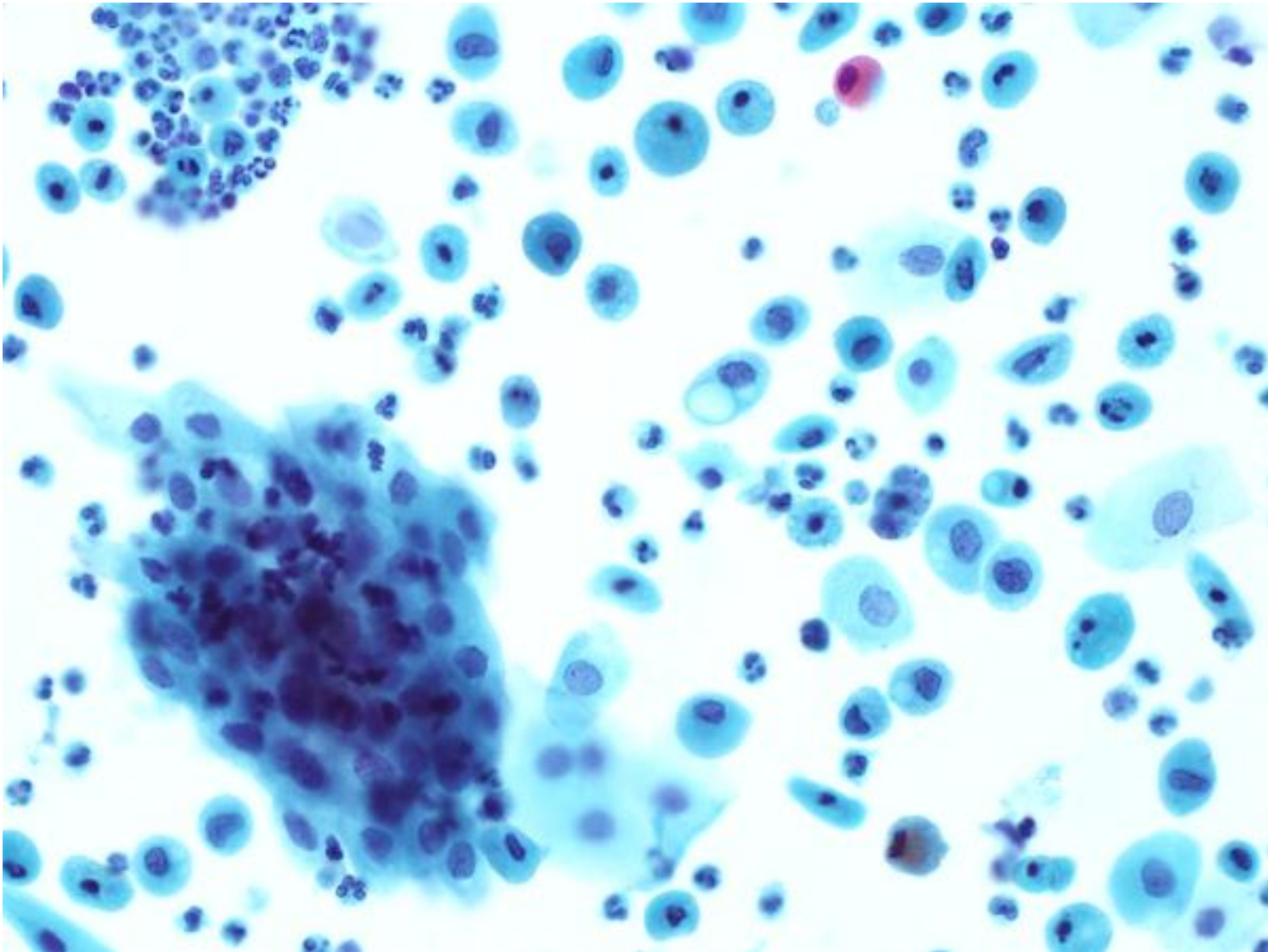
*ThinPrep*

# REACTIVE Sheet



*ThinPrep*

# ATROPHY



See as many cases and images as you can