

Pap test cytology screening currently uses the Bethesda Classification System as a standard nomenclature for describing abnormal results that may require further follow-up. The Bethesda Classification System and other naming conventions describe the degree of neoplastic change found on biopsy and may still be seen in some Pap test pathology reports and in the scientific literature. These naming conventions are not interchangeable. Pap test results may include both cytological and histological nomenclature.

### CERVICAL PAP TEST RESULTS

- For individuals 30 years or older, an HPV co-test is routinely performed along with a cervical Pap test; however, if the HPV co-test was not performed in a patient who has a Pap test result of ASC-US, then clinicians should perform HPV reflex testing. (All)
- If either test result is positive, clinicians should refer the patient for colposcopy. (All)
- If both test results are negative, then the clinician should resume standard Pap testing (every 3 years). (All)

- For individuals of all ages, clinicians should refer for or perform colposcopy in response to the following Pap test results:
  - Atypical squamous cells, high-grade squamous intraepithelial lesion cannot be excluded (ASC-H). (AI)
  - Low-grade squamous intraepithelial lesion (LSIL). (AI)
  - High-grade squamous intraepithelial lesion (HSIL). (AI)
  - Atypical glandular cells (AGC). (AI)

- Clinicians should refer patients with HIV infection and a diagnosis of cervical cancer to a gynecologic oncologist or surgeon trained in the management of cervical cancer. (All)
- Clinicians should closely monitor patients with cervical cancer in close collaboration with the gynecologic oncologist after definitive treatment for cancer. (All)

- After a patient has completed treatment for an abnormal cervical biopsy test, clinicians should repeat cytologic tests at 6 months then annually until 2 tests in a row screen negative, then every 3 years. (All)

- Clinicians should *immediately* refer patients with HIV infection and a diagnosis of cervical cancer to a gynecologic oncologist or surgeon trained in the management of cervical cancer. (All)
- Clinicians should perform HPV co-testing (cervical cytologic test with a concurrent HPV test) only for individuals who are older than 30 years. (All)
- For individuals younger than age 30 years with a Pap test result of ASC-US, clinicians should ensure that a reflex HPV test is performed. (A reflex HPV test is performed in response to, not concurrent with, an abnormal Pap test.)
- If the reflex HPV test result is positive, clinicians should refer the patient for colposcopy. (All)
- If the reflex HPV test is negative, clinicians should perform both a repeat Pap test and an HPV test at 1 year.
- If the HPV test result is positive, clinicians should refer the patient for colposcopy. (All)

- If both tests are negative at 1 year, then the clinician should perform both a repeat Pap test and an HPV test at 1 year.

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- Low-grade squamous intraepithelial lesion (LSIL). (AI)
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- Atypical glandular cells (AGC). (AI)

- Within 2 years of the onset of sexual activity or by age 21 years. (All)
- Annually until 2 tests in a row screen negative, then every 3 years. (All)
- At 6 months after treatment for an abnormal result and then annually until 2 tests in a row screen negative, then every 3 years. (All)

- Clinicians should perform a cervical Pap test for all individuals assigned female at birth who have HIV infection at the following time intervals:

- Within 2 years of the onset of sexual activity or by age 21 years. (All)
- Annually until 2 tests in a row screen negative, then every 3 years. (All)
- At 6 months after treatment for an abnormal result and then annually until 2 tests in a row screen negative, then every 3 years. (All)

- Clinicians should offer all individuals with HIV infection aged 11 to 26 years the 9-valent HPV vaccine 3-dose series regardless of prior Pap test results or CD4 cell count. (AI)

- Because testosterone use can induce vaginal atrophy and affect specimen adequacy for a cervical Pap test, the Pap test requisition for transgender men should note both testosterone use and the presence of amonorrhea to assist the accurate interpretation of cell morphology. Asking patients about all gender-reassignment and gynecologic surgical procedures is essential to determine the need for cervical or vaginal screening.

- HPV co-testing is not recommended for individuals who are younger than 30 years.

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- HPV co-testing is not recommended for individuals who are younger than 30 years.

- For individuals younger than age 30 years with a Pap test result of ASC-US, clinicians should ensure that a reflex HPV test is performed. (A reflex HPV test is performed in response to, not concurrent with, an abnormal Pap test.)
- If the reflex HPV test result is positive, clinicians should refer the patient for colposcopy. (All)
- If the reflex HPV test is negative, clinicians should perform both a repeat Pap test and an HPV test at 1 year. (All)
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**Table 2. Cytological and Histological Classification of Cervical Dysplasia**

Bethesda Classification System (2014) (describes cytology obtained at cervical Pap)	
ASC-US	Atypical squamous cells of undetermined significance
ASC-H	Atypical squamous cells, HSIL cannot be excluded
AGC	Atypical glandular cells
AGC-NOS	Atypical glandular cells not otherwise specified
AGC-FN	Atypical glandular cells favoring neoplasia
LSIL	Low-grade squamous intraepithelial lesion
HSIL	High-grade squamous intraepithelial lesion
Cancer	—
Cervical Intraepithelial Lesion (or neoplasia [CIN]) (describes histology obtained at biopsy)	
Atypia	—
CIN I	Low-grade cervical intraepithelial neoplasia
CIN II	Moderate-grade cervical intraepithelial neoplasia; may be a low-grade or high-grade lesion
CIN III	High-grade cervical intraepithelial neoplasia
CIS	Carcinoma <i>in situ</i>
Cancer	—

Adapted from Nayar R, Wilbur DC. The Pap test and Bethesda 2014. *Cancer Cytopathol* 2015;123(5):271–81. [PMID: 25931431]



← Use this code with your phone's QR code reader to go directly to a mobile-friendly version of the guideline.

■ This 1/4-Folded Guide is a companion to the New York State Department of Health AIDS Institute guideline *Cervical Screening for Dysplasia and Cancer in the Setting of HIV Infection*. The full guideline is available at [www.hivguidelines.org](http://www.hivguidelines.org).

## HIV CLINICAL RESOURCE ■ 1/4-FOLDED GUIDE

VISIT [HIVGUIDELINES.ORG](http://HIVGUIDELINES.ORG) TO LEARN MORE OR VIEW COMPLETE GUIDE



### CERVICAL SCREENING FOR DYSPLASIA AND CANCER IN PATIENTS WITH HIV

NYSDOH AIDS INSTITUTE CLINICAL GUIDELINE, 2018

#### → KEY POINTS

##### Who to screen:

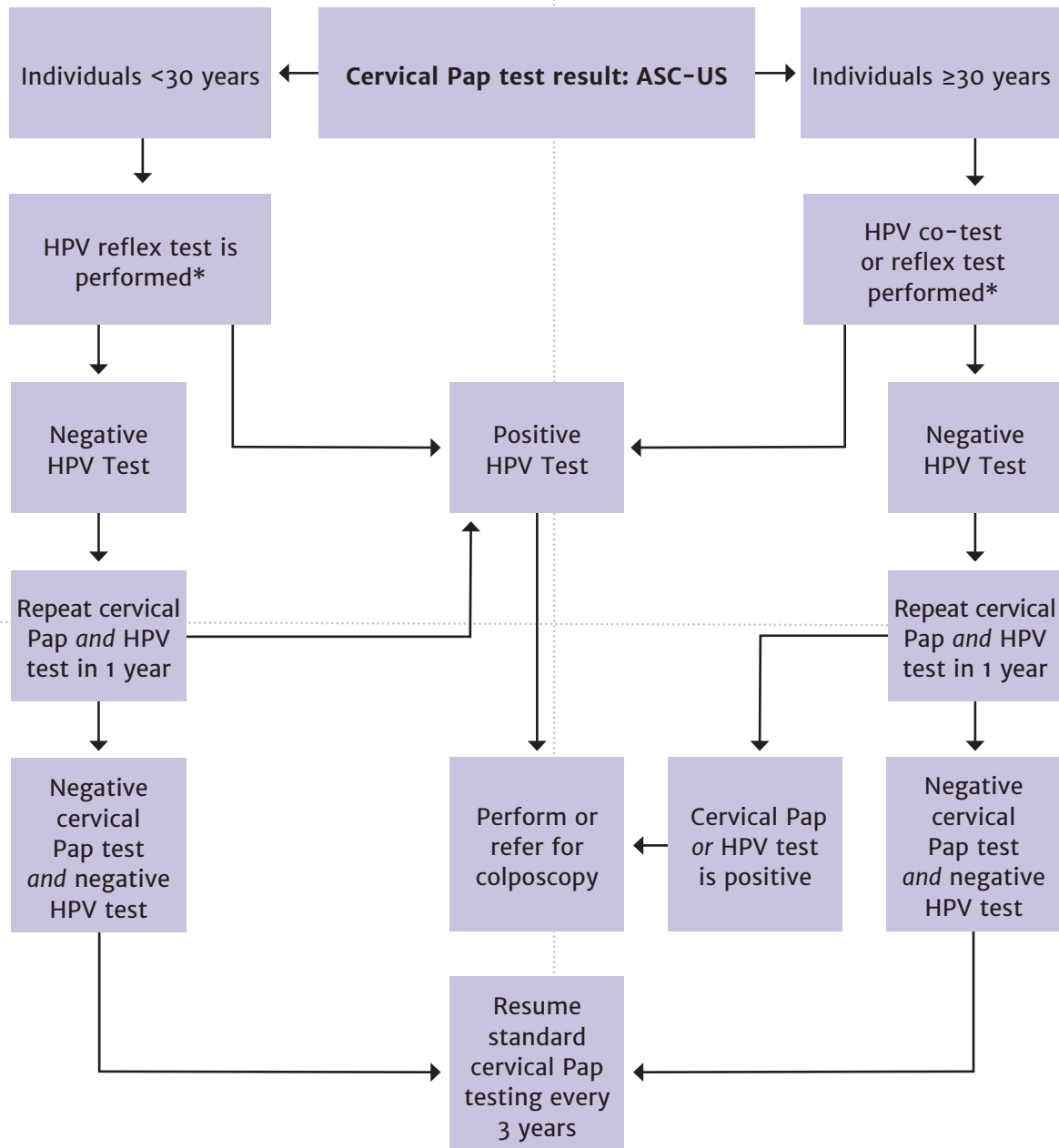
- Screening for cervical cancer in the setting of HIV should be performed as detailed in this guideline for eligible individuals, including cisgender women, transgender men, and nonbinary individuals assigned female at birth. Transgender men who have an intact vagina or cervix remain at risk of human papilloma virus (HPV) infection, vaginal or cervical dysplasia, and cervical cancer.
- Throughout this guideline, the term transgender men refers to individuals assigned female at birth but who identify as males. Approximately one-third of transgender or gender nonconforming individuals who were assigned female at birth identify as neither male nor female (i.e., nonbinary). For a list of common transgender and nonbinary terms and definitions, see, for instance, UCSF Center of Excellence for Transgender Health.
- This committee encourages care providers to discuss the need for cervical cancer screening with transgender men and nonbinary individuals to help ensure appropriate care for these individuals.

##### Risk in people with HIV infection:

- Recent data demonstrate increased risk of anal dysplasia and rising rates of anal cancer in females with HIV infection. Although anal squamous intraepithelial lesions have been associated with concurrent CSIL, they also occur independently of CSIL. Therefore, anal cytology should be performed on all cisgender females with HIV infection with and without cervical abnormalities according to guidelines for adults with HIV infection. In addition, it is important that digital examination of the anus for anal cancer and dysplasia continue at the recommended intervals, regardless of Pap test results. Although there are no data available on screening in transgender or nonbinary individuals with HIV infection, it would be logical to also perform anal screening for these populations.
- Regardless of Pap test results, it is important that routine screening for STIs continues to be performed to assess for risk behaviors that require repeat or ongoing screening.
- It is important that clinicians continue to perform visualization of the external genitalia and a digital pelvic examination as part of the annual physical examination.

Continued next panel

**FIGURE 1. Follow-Up for Cervical Pap Test Result Atypical Squamous Cells of Undetermined Significance (ASC-US) in Individuals with HIV Infection**



**\*HPV co-testing versus reflex testing:** HPV co-testing is routinely performed at the same time as a cervical Pap test in individuals 30 years or older. HPV reflex testing is performed in response to an abnormal cervical Pap test result in individuals younger than 30 years, and in individuals 30 years or older who did not receive an HPV co-test at the time of their cervical Pap test.