# The Abnormal Pap: Updated ASCCP Management Guidelines

Amy Brockmeyer, MD

Section Head of Gynecology and Gynecologic

Oncology & Director of Gynecologic Oncology

December 4, 2021



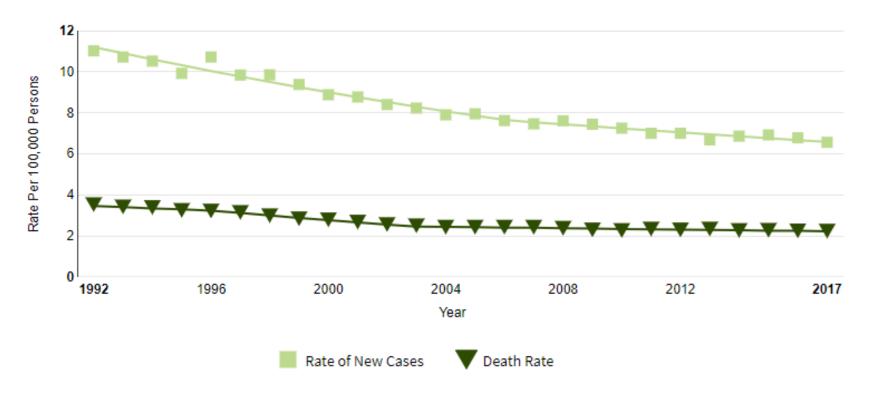


#### Learning Objectives

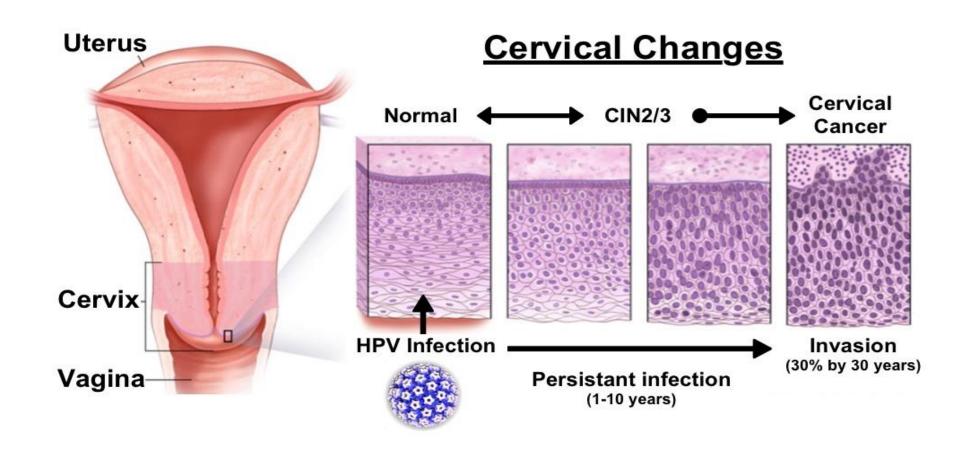
- Understand why screening works.
- Know the vaccination recommendations
- Understand why The American Society for Colposcopy and Cervical Pathology (ASCCP) 2019 Consensus Guidelines were created.
- Understand how to apply recommendations to your care
- Recognize racial determinates of cervical cancer incidence mortality
- Identify action items that work for system change

#### Cervical Cancer Incidence

- Estimated new cases of cervical cancer in the US in 2020: 13,800
- The case incidence has been steadily falling since the 1970s as a direct result of screening.



## Cervical cancer pathogenesis...



#### Two targets for cervical cancer prevention

- HPV Vaccination to prevent HPV infection that causes cervical cancer
  - In vaccinated women, the percentage of precancers...dropped by 40%.
- Early detection and treatment of precancer and cancer via cytology and HPV detection
  - Use screening guidelines avoid overtreatment
    - Infertility and preterm birth
    - Anxiety, unneeded uncomfortable exams
  - Test for HPV to identify those with persistent infection
  - Examine/refer appropriately
    - Abnormal bleeding, bleeding after sex, pain, visible lesion

**HPV Vaccination** 

#### Vaccinate ages 11/12 (2 shots) completed by 13

## When does my child need the HPV vaccine?

THE AMERICAN CANCER SOCIETY RECOMMENDS THE HPV VACCINE FOR BOYS AND GIRLS AGES 11 OR 12.



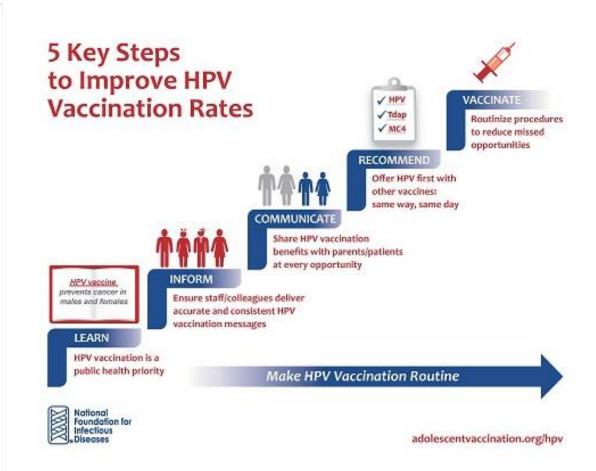


The vaccine can be started as early as age 9, and should be completed by your child's 13th birthday.

The vaccine is given in two shots, with 6 to 12 months between shots.\* HPV vaccination works best at ages 11 or 12, before HPV exposure.



\* 3 shots of the HPV vaccine are needed for children who started the vaccine at age 15 or older, up to age 26 for women and age 21 for men, and those who have certain immune system conditions.





2019 Risk based Guidelines = 2012 guidelines Carried Forward + New Guidelines

#### 2018 USPSTF Cervical Cancer Screening Recommendations for Average-Risk Women

Do NOT apply to women who are a high risk of disease

- Those with previous high-grade lesion
- History of DES exposure
- Immunocompromised

Table 1. 2018 USPSTF Cervical Cancer Screening Recommendations for Average-Risk Women

Population*	Recommendation	Recommendation Grade <sup>†</sup>			
Women aged <21 years	No screening	D			
Women aged 21 – 29 years	Cervical cytology alone every 3 years	A			
Women aged 30 – 65 years	Cervical cytology alone every 3 years  OR hrHPV testing <sup>‡</sup> alone every 5 years  OR  Co-testing (hrHPV testing <sup>‡</sup> and cervical cytology) every 5 years	A			
Women aged >65 years with adequate prior screening	No screening	D			
Women who have had a hysterectomy with removal of the cervix and do not have a history of a high-grade cervical precancerous lesion or cervical cancer	No screening	D			

## 2012 Guiding Principles Carried Forward

- Primary goal is cancer prevention through detection and early treatment
- Guidelines apply to all individuals with a cervix
  - Includes women and transgender men with a cervix, and those who underwent supracervical hysterectomy.
  - Can extrapolate to those post total hyst with previous dysplasia
- Equal management for equal risk
- Balance benefits and harms
  - We cannot prevent all cancers
  - All interventions cause harm
- Apply to asymptomatic patients
- For US use

#### The society for lower genital tract disorders since 1964.

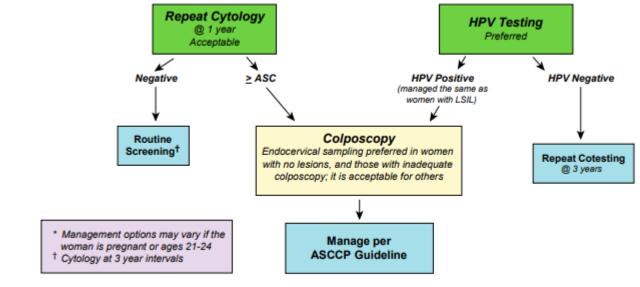
## Algorithms

Updated Consensus Guidelines for Managing Abnormal Cervical Cancer **Screening Tests and Cancer Precursors** 

American Society for Colposcopy and Cervical Patho

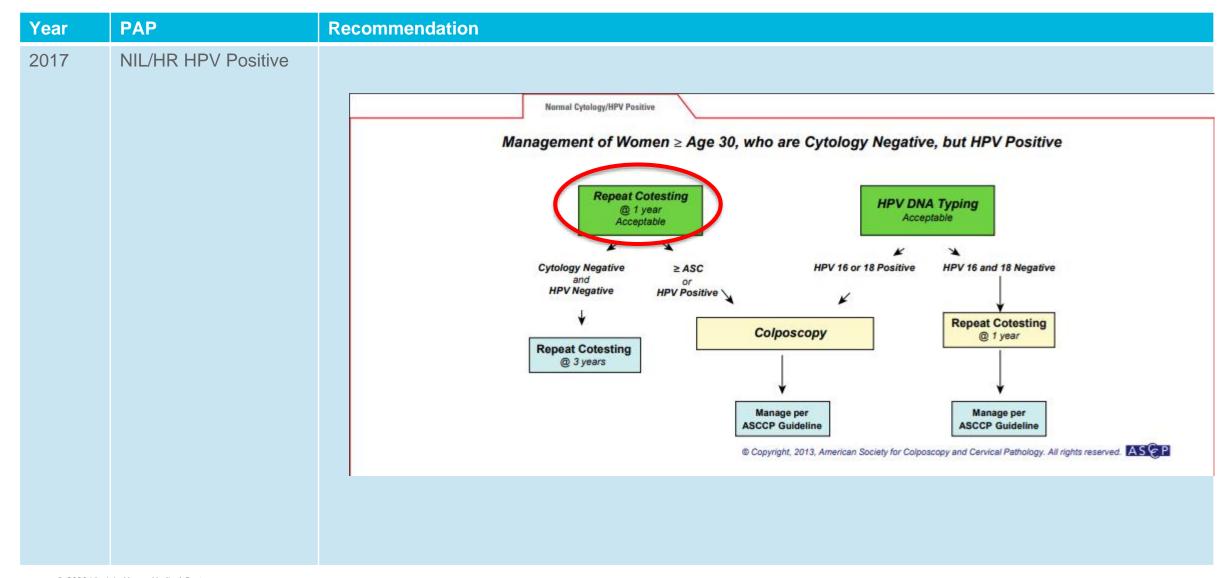
ASCCP.org/managementguidelines

Management of Women with Atypical Squamous Cells of Undetermined Significance (ASC-US) on Cytology\*

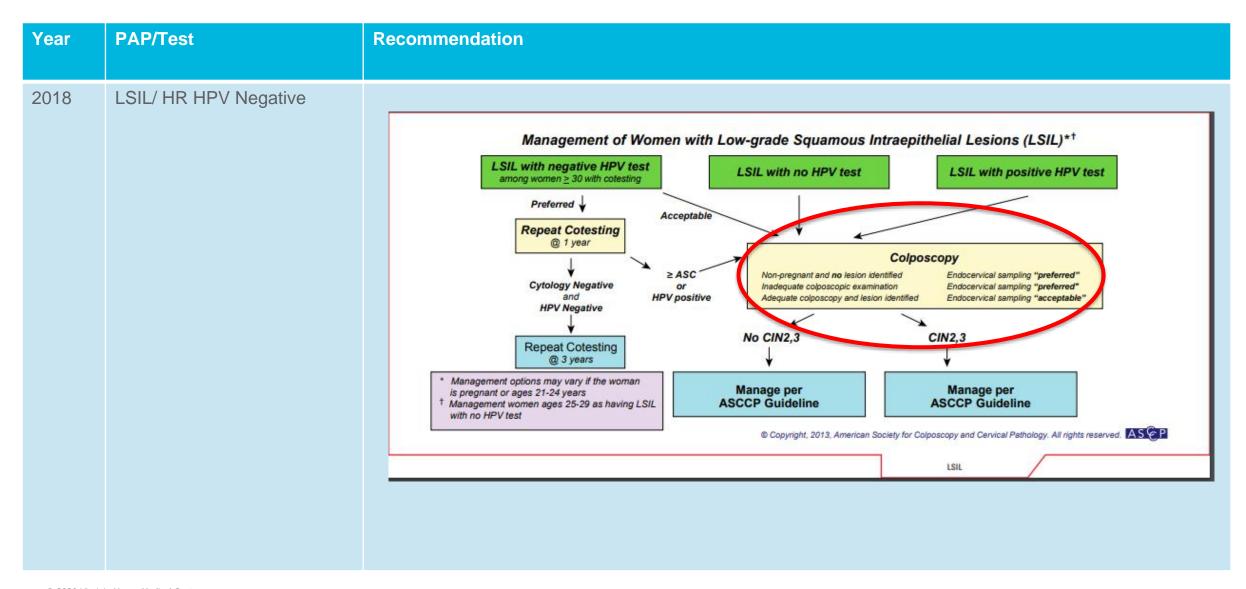


© Copyright, 2013, American Society for Colposcopy and Cervical Pathology. All rights reserved. AS P

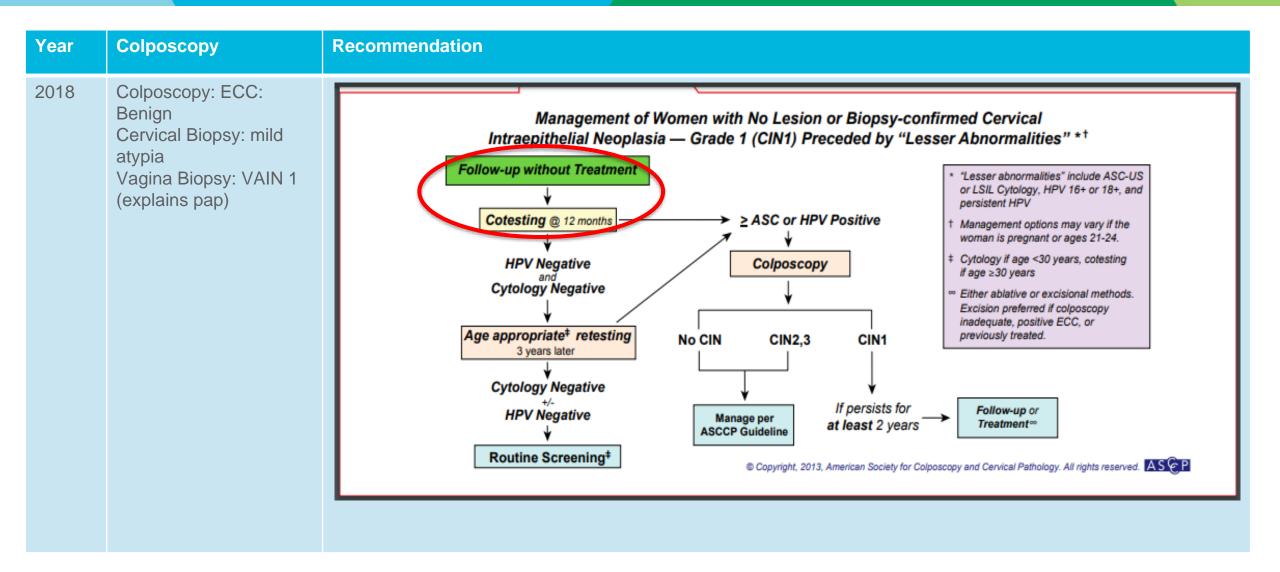
## Case Study/Previous guidelines 64 yo



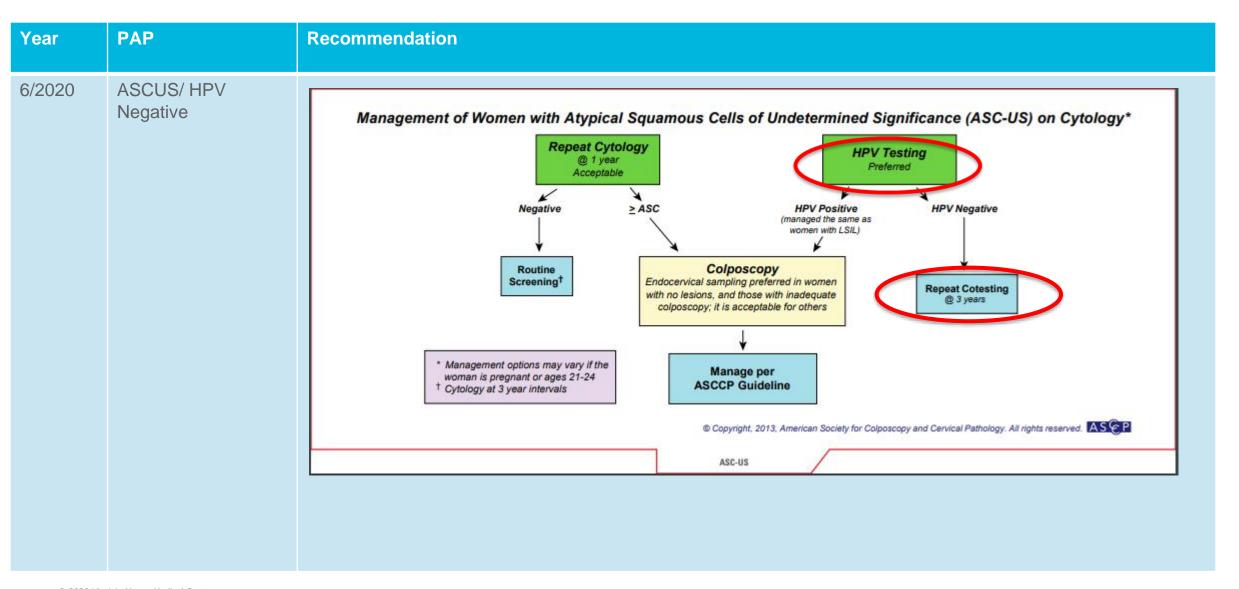
### 65 year old



## 65 year old: Colposcopy

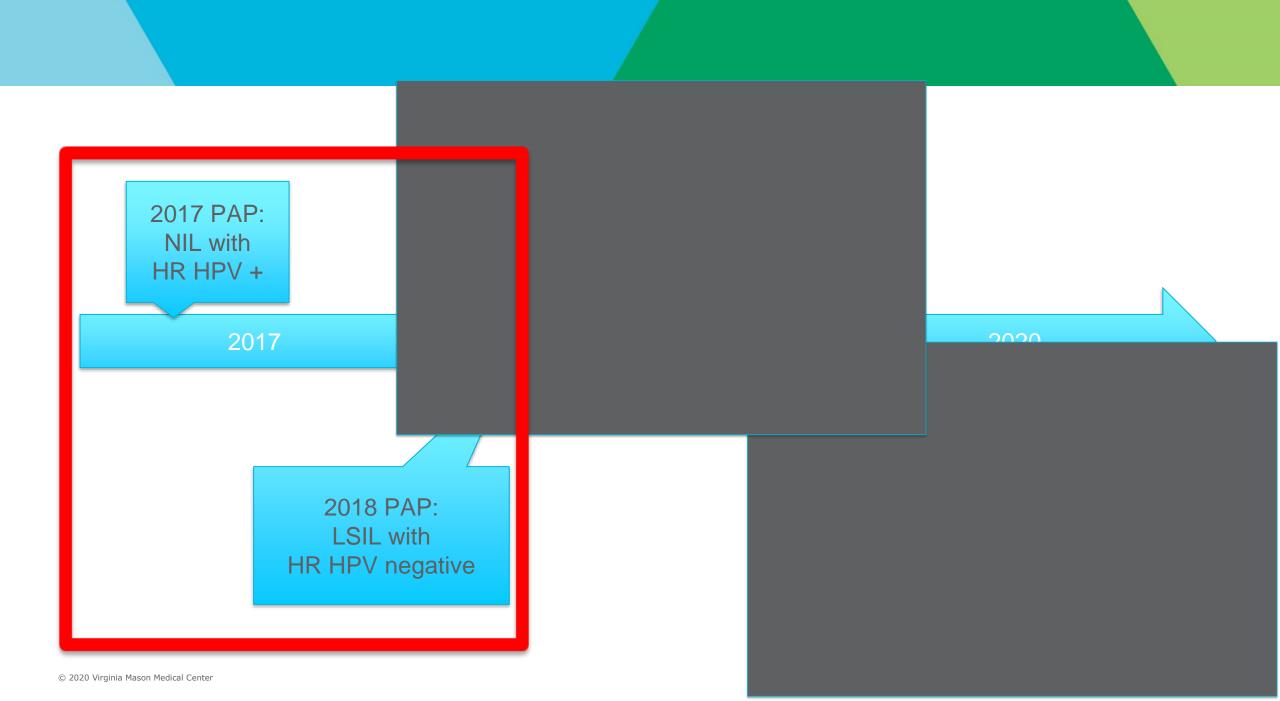


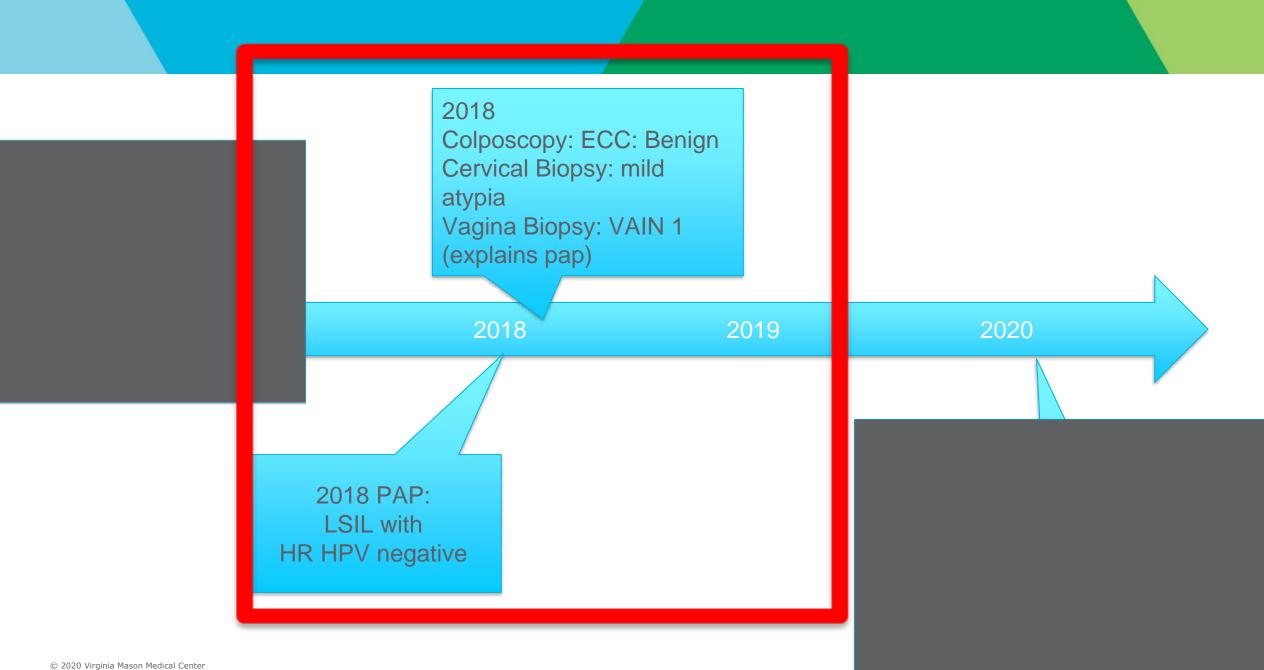
### 67 year old



## Old guidelines







2018

Colposcopy: ECC: Benign

Cervical Biopsy: mild

atypia

Vagina Biopsy: VAIN 1

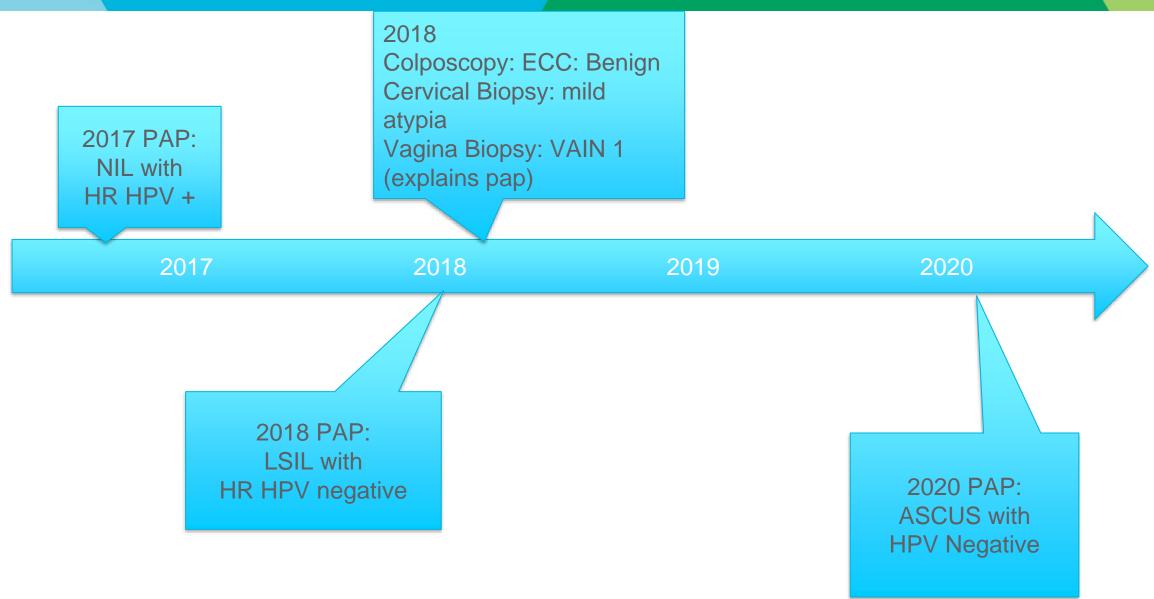
(explains pap)

2019 2020

2020 PAP: ASCUS with HPV Negative

@ 2020 \

## Case study: Old guidelines



**Updated ASCCP management guidelines** 

#### Goals of Updated Guidelines

- Increase accuracy and reduce complexity for providers and patients
  - Optimal Risk estimation incorporates current results AND past history
- Collaboration amongst 20 groups and patient advocates

#### Medical Professional Societies

- ASCCP
- American Academy of Family Physicians
- American Cancer Society
- American College of Nurse-Midwives
- American College of Obstetricians and Gynecologists
- American Society for Clinical Pathology
- American Society of Cytopathology
- College of American Pathologists
- Nurses for Sexual and Reproductive Health
- Nurse Practitioners in Women's Health
- Papanicolaou Society of Cytopathology
- Society of Gynecologic Oncology
- Women Veterans Health Strategic Healthcare Group

#### Patient Advocacy Organizations

- American Sexual Health Association
- Cervivor
- Latino Cancer Institute
- Team Maureen

#### Federal Agencies

- Centers for Disease Control and Prevention
- National Cancer Institute

JOURNAL OF LOWER GENITAL TRACT DISEAS

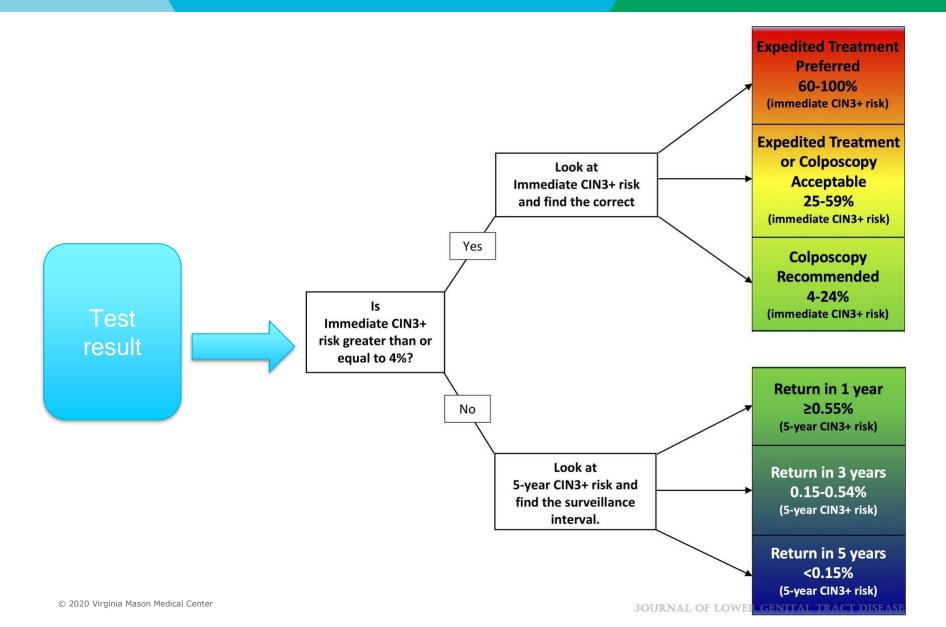
#### New 2019 Principles

- HPV-based testing is the basis for risk of CIN 3+ estimation
  - Either primary HPV testing alone
  - HPV testing with cytology (co-testing)
- Personalized risk management is possible with knowledge of current results and past history.
  - Special populations have different recommendations
- Allow updates to incorporate new test methods as they are validated, and to adjust for decreasing CIN3+ risks as more patients who received HPV vaccination reach screening age
- Colposcopy practice must follow ASCCP guidelines with goal of finding CIN II or higher.

#### How is risk of CIN 3+ determined?

- Multiple large prospective longitudinal US databases following patients of diverse racial, ethnic, and socioeconomic strata to assure relevance to all women.
  - KPNC, Clinical trials, New Mexico HPV Pap Registry, Others
  - Encompass diverse populations because we know CIN 3+ prevalence is driven by geographic location, race, ethnicity & socioeconomic status
- Patients with similar test results and screening history combinations have largely the same risk of CIN 3+
- In cases where the data could not predict risk, literature review or prior consensus data was used.

#### Risk prediction and Action Thresholds



Journal of Lower Genital Tract Disease24(2):102-131, April 2020.

How do we use this in our clinics?

# asccp.org/management-guidelines Data tables (5+ tables, 68 rows x 82 columns)

Age 🔻	PAST HISTORY (most recent)	Current HPV Result	Current PAP Resu >		CANCER 4 year risk (%)	SE 4-vear	LL95 4-yes	UL95 4-ve >	CANCER 5 year risk	SE 5-year	LL95 5-ve: *	UL95 5-ve	Management	Management Confidence Probability	80% Confidence Satisfied for the Suggested Management (Y
25-65	NO HISTORY	HPV16+	LSIL	1.09			-	1.12				The second secon	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	1.00	
25-65	NO HISTORY	HPV16+	ASC-H	3.87	THE REAL PROPERTY.	The second second		-	-	CONTRACTOR OF THE PERSON	- Contraction of the Contraction		transfer to the later to the la	0.78	
25-65	NO HISTORY	HPV16+	AGC	4.52			- Alternative	4.52		- Contract	-			0.92	
25-65	NO HISTORY	HPV16+	HSIL+	13.89									Treatment	0.52	
25-65	NO HISTORY	HPV16-, HPV18+	NILM	0.78				0.98	-					Special Situation	
25-65	NO HISTORY	HPV16-, HPV18+	ASC-US	0.83	0.28			0.83			-0.27		Section 1 and 1 an	Special Situation	
25-65	NO HISTORY	HPV16-, HPV18+	LSIL	1.36	0.46	0.46	-0.44	1.36	0.46	0.46	-0.44	1.36		Special Situation	
25-65	NO HISTORY	HPV16-, HPV18+	ASC-H	5.70	1.92			5.70	1.92	1.93	-1.87	5.70		0.93	y Y
25-65	NO HISTORY	HPV16-, HPV18+	AGC	25.69	14.95	5.48	4.22	25.69	14.95	5.48	4.22	25.69	Colposcopy/Treatment	0.83	B Y
25-65	NO HISTORY	HPV16-, HPV18+	HSIL+	17.50	10.47	3.58	3.45	17.50	10.47	3.58	3.45	17.50	Colposcopy/Treatment	0.80	N
25-65	HPV-negative	HPV-negative	NILM	0.011	0.01	0.001	0.007	0.013	0.011	0.002	0.008	0.014	5-year follow-up	1.00	Y
25-65	HPV-negative	HPV-negative	ASC-US	0.062	0.039	0.018	0.004	0.074	0.044	0.02	0.005	0.083	3-year follow-up	1.00	Y
25-65	HPV-negative	HPV-negative	LSIL	0.001	0	C	0	0.001	0	0	0	0.001	1-year follow-up	0.82	Y
25-65	HPV-negative	HPV-negative	ASC-H	0.005	0	0.002	0	0.005	0	0.002	0	0.005	Colposcopy	Special Situation	
25-65	HPV-negative	HPV-negative	AGC	0.713	0.398	0.178	0.049	0.747	0.412	0.185	0.049	0.775	Colposcopy	Special Situation	
25-65	HPV-negative	HPV-negative	HSIL+	8.145	3.449	2.396	0	8.145	3.449	2.396	0	8.145	Colposcopy	0.98	Y
25-65	HPV-negative	HPV-negative	ALL	0.012	0.011	0.002	0.009	0.015	0.013	0.002	0.01	0.017	5-year follow-up	1.00	Y
25-65	HPV-negative	HPV-positive	NILM	0.148	0.111	0.032	0.048	0.173	0.126	0.037	0.054	0.199	1-year follow-up	1.00	Y
25-65	HPV-negative	HPV-positive	ASC-US	0.269	0.183	0.062	0.061	0.304	0.202	0.07	0.065	0.339	1-year follow-up	1.00	Y
25-65	HPV-negative	HPV-positive	LSIL	0.181	0.097	0.05	0	0.195	0.103	0.054	0	0.209	1-year follow-up	1.00	Y
25-65	HPV-negative	HPV-positive	ASC-H	1.584	0.802	0.399	0.019	1.584	0.802	0.399	0.019	1.584	Colposcopy	1.00	Y
25-65	HPV-negative	HPV-positive	AGC	6.952	3.896	1.559	0.84	6.952	3.896	1.559	0.84	6.952	Colposcopy	1.00	Y
25-65	HPV-negative	HPV-positive	HSIL+	5.245	3.371	0.956	1.496	5.245	3.371	0.956	1.496	5.245	Colposcopy/Treatment	1.00	Υ Υ
25-65	HPV-negative	HPV16+	NILM	1.72	0.96	0.44	0.10	1.82	0.96	0.44	0.10	1.83	Colposcopy	Special Situation	
25-65	HPV-negative	HPV16+	ASC-US	2.43	1.18	0.68	-0.16	2.51	1.18	0.68	-0.16	2.52	Colposcopy	0.84	Y
25-65	HPV-negative	HPV16+	LSIL	2.14	0.89	0.63	-0.35	2.14	0.89	0.63	-0.35	2.14	Colposcopy	0.94	Y
25-65	HPV-negative	HPV16+	High Grade	7.93	3.72	2.15	-0.49	7.93	3.72	2.15	-0.49	7.93	Colposcopy	0.61	N
25-65	HPV-negative	HPV16-, HPV18+	NILM	1.31	The state of the s		-	1.31		-			Colposcopy	Special Situation	
25-65	HPV-negative	HPV16-, HPV18+	ASC-US	5.36	The state of the s	The second second		-	The state of the s	The second secon	and an artist of the last	The second second	Colposcopy	Special Situation	
25-65	HPV-negative	HPV16-, HPV18+	LSIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Colposcopy	Special Situation	
25-65	HPV-negative	HPV16-, HPV18+	High Grade	10.13	4.26	2.99	-1.61	10.13	4.26	2.99	-1.61	10.13	Colposcopy	0.81	Y

## Get the app...



#### The ASCCP Management Guidelines App is Now Available

Streamline navigation of the ASCCP Risk Based Management Consensus Guidelines with the NEW ASCCP Management Guidelines App

- · Evidence-based management guidelines
- Simple navigation
- · Uncomplicated guidance

#### Ranked #2 in Medical Apps

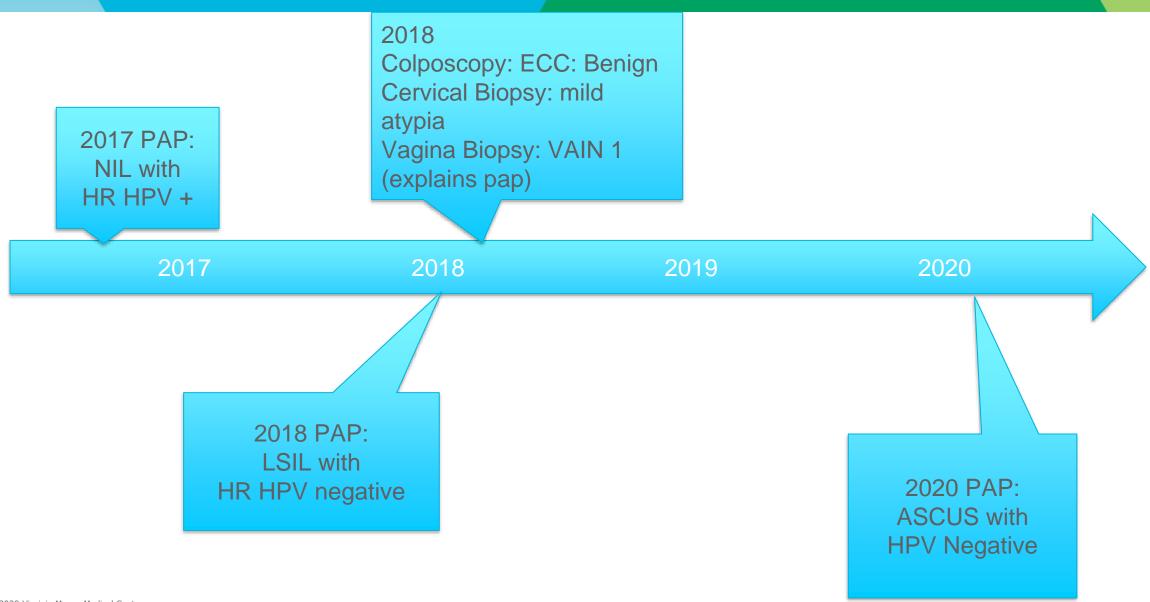
Now Available

Available on the App Store

Coming Soon - Preorder Today



## Case Study: NEW guidelines



#### AS&P

Management Publications Definitions

**Clinical Situation** 

Return visit during pre-colposcopy surveillance >

Management of routine screening results

Management of results during postcolposcopy surveillance

Evaluation of a colposcopic biopsy

Special situation: Rarely screened patients

Special situation: Symptomatic patients

>

Special situation: Immunosuppressed patients >

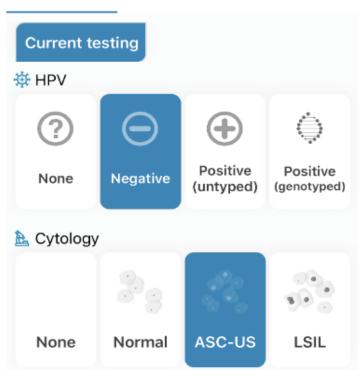
Nevt ->

AS&P

Management Public

Publications

Definitions



AS&P

Management Publications Definitions

Does the patient have previous results since colposcopy?

Yes

No

Colposcopy

NO CIN

Histologic LSIL (CIN 1) Histologic HSIL (CIN 2)

Cytology prior to colposcopy



Normal ASC-US

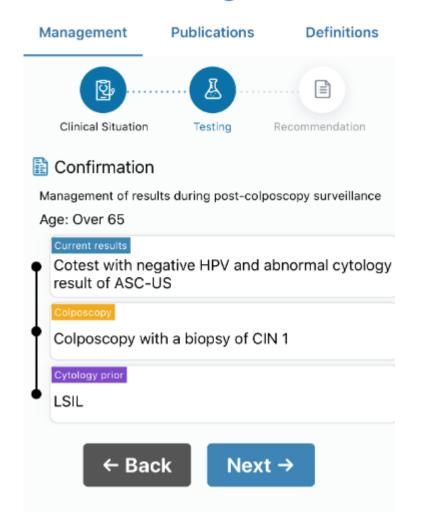


LSIL ASC-H

← Back

Next →

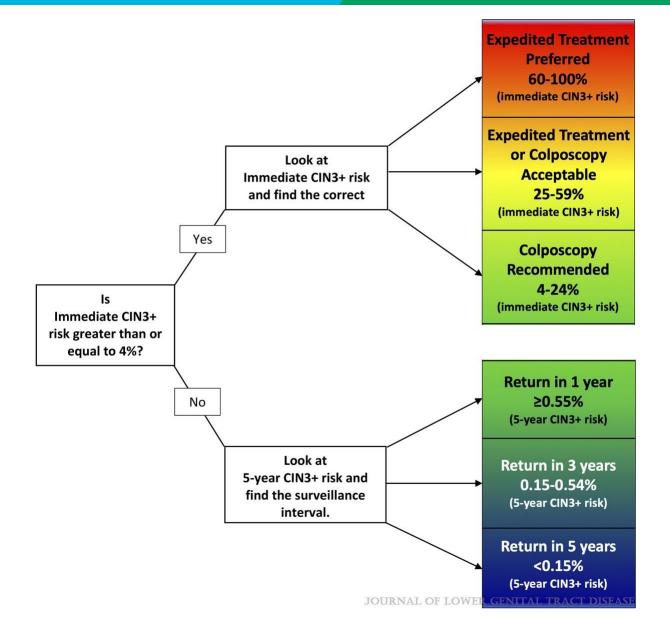
#### AS&P



#### AS&P



#### Risk prediction and Action Thresholds



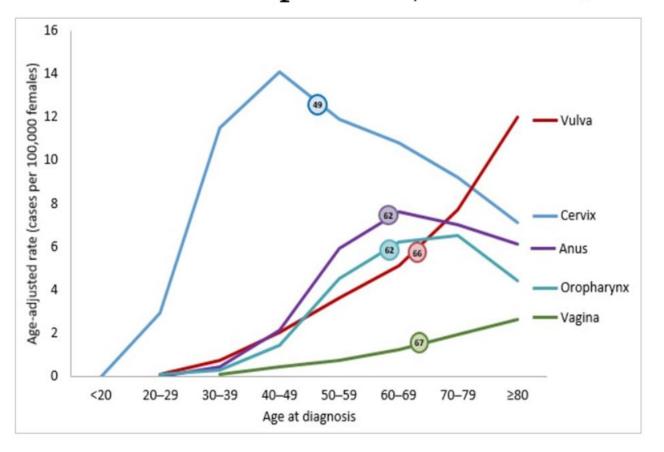
Journal of Lower Genital Tract Disease24(2):102-131, April 2020.

#### Special populations

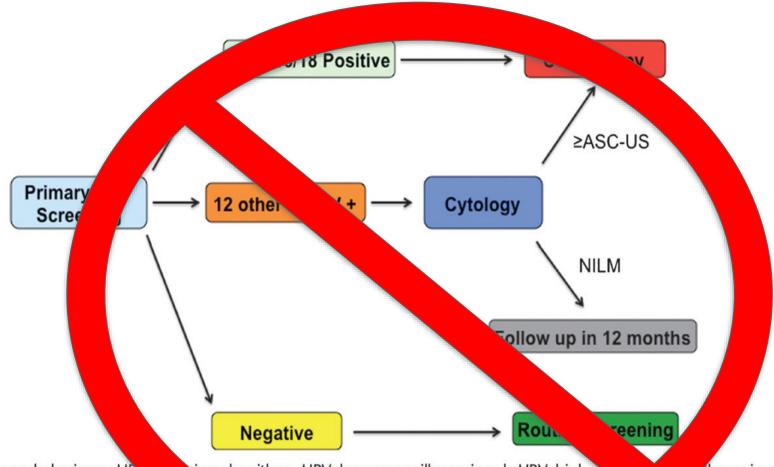
- Rarely screened patients
- Symptomatic patients
  - Abnormal bleeding, visibly or palpably abnormal cervix
  - REQUIRES a DIAGNOSTIC TEST and physical examination
  - Consider referral to gynecology or gynecologic oncology
- Immunosuppressed patients
  - Baseline higher risk for CIN 3+ exists
  - Earlier treatment and quicker follow up can be recommended
  - Consider referral to gynecology or gynecologic oncology
- Age greater than 65

#### High risk women should get a pap after age 65

Rates of HPV-Associated Cancers and Age at Diagnosis Among Women in the United States per Year, 2011–2015



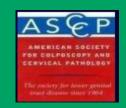
## Primary HPV screening Algorithm



"All positive primary
HPV testing... should
have additional triage
testing performed
from the same lab
system." (Thin prep at
VM)

FIGURE 1. Recommended primary HP ing algorithm. HPV, human papillomavirus; hrHPV, high-ris atypical squamous cells of undetermined see: NILM, negative for intraepithelial lesion or malignance.

Being rarely or never screened is the major contributing factor to most cervical cancer deaths today.



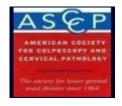
#### Who are the Rarely and Never Screened

#### **Descriptions**

- People of color
- Low Socioeconomic status
- Foreign born
  - -Living in the US < 10 years
- No usual source of health care

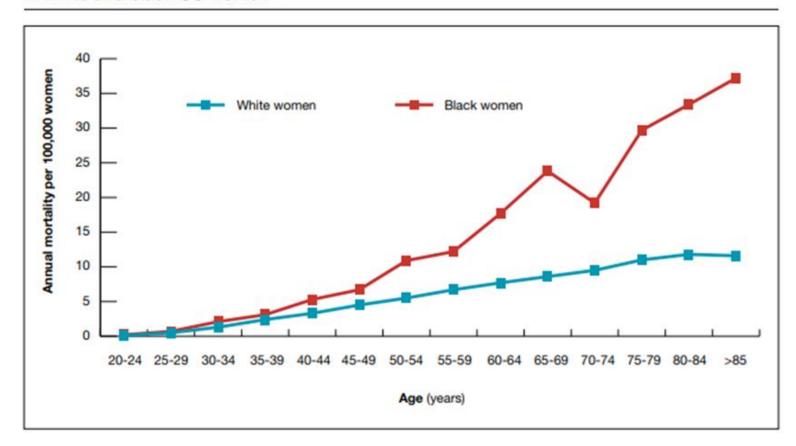
#### Where are the data?

- US Census
- CDC
  - National Center of Health Statistics
  - Behavioral Risk FactorSurveillance System
  - National Heath InterviewSurvey



#### Race affects cancer mortality.

FIGURE Age-specific, hysterectomy-corrected cervical cancer mortality rates in white and black US women<sup>2</sup>



Race is a health care determinate.

#### Race is a health care determinate.

- Race affects access to care and public health.
  - Education
  - Screening
  - Vaccination
  - Treatment
- Race affects how and what treatment is given.
- Race affects survival of cancer.
- Non-Scientist elected officials fund the CDC and State Health Department which researches and promotes public heath.
- We must use our voices to change the race based inequalities that our system perpetuates.
- Vote.

Thank you.