

Cervical Cancer Screening: How to Manage the Positive Screening Tests

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Disclosures

- No financial relationships or conflict of interest to disclose



Background

- Most of HPV infections are transient, only few are persistent
- HPV infection is common in teenagers, but cervical cancer is rare at this age
- Most young women have an effective immune system, it can:
 - Clear the infection with an average of 12 months
 - Resolve spontaneously most cervical HPV lesions



Background

- **CIN 1** has a high rate to regression to normal cells.
- **CIN 2** represents a mix of LSIL and HSIL.
 - The use of biomarkers are useful in this situation (p16) .
- **CIN 3 and AIS** are clearly cancer precursors

THE KEY TO EFFECTIVELY MANAGING CERVICAL ABNORMALITIES IS TO DISTINGUISH TRUE CERVICAL CANCER PRECURSORS FROM BENIGN CERVICAL ABNORMALITIES WITH LITTLE PREMALIGNANT POTENTIAL



There are different possibilities of abnormal tests:

- Women 30 + years:
 - who are cytology negative but HPV positive
 - with ASC-H or HSIL cytology, but colposcopy with no lesion or biopsy-confirmed CIN 1
 - with ASC-US, ASC-H cytology and LSIL, HSIL, AGC confirmed by biopsy
- Young women with biopsy-confirmed CIN 2 or 3.



Modalities of Screening in Women > 30y

3 modalities are possible

HPV Test :

- Negative: retest in 3 years
- Positive: cytology and eventual colposcopy

Cytology:

- Negative: 1-1-3
- Positive: colposcopy

Co-test HPV Test + Cytology) :

- Cyto and HPV negatives: retest in 5 years
- HPV +, cyto -: retest at 1 year
- HPV -, cyto +: review cytology
 - ASC-US or LSIL: repeat at 1 year
 - ASC-H or HSIL: colposcopy and EEC
- Cyto and HPV +: colposcopy

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Society Guideliness)



Risk factors

- Women with any of the following risk factors may require more frequent cervical cancer screening:
 - HIV infection
 - Immunocompromise (eg, solid organ transplant recipients, autoimmune disease)
 - Tobacco
 - Exposure to diethylstilbestrol in utero
 - Previous treatment for CIN 2, CIN 3, or cancer



Management of Women with ASC-US or LSIL

COLPOSCOPY

If cytology informs ASC-US
Triage with HPV Test is preferred

TZ 1 - 2

No lesion or LSIL
colposcopic lesion

Cytology & colposcopy
in 6 months

2 negative controls

Routine screening

HSIL colposcopic
lesion

Biopsy

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TZ 3

No lesion or LSIL
colposcopic lesion

ECC

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HSIL colposcopic
lesion

Biopsy

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Management of Women with ASC-H or HSIL

COLPOSCOPY

T Z 1, 2, 3

No lesion

ECC

Negative

Review cytology: CONE if the
diagnostic is confirmed

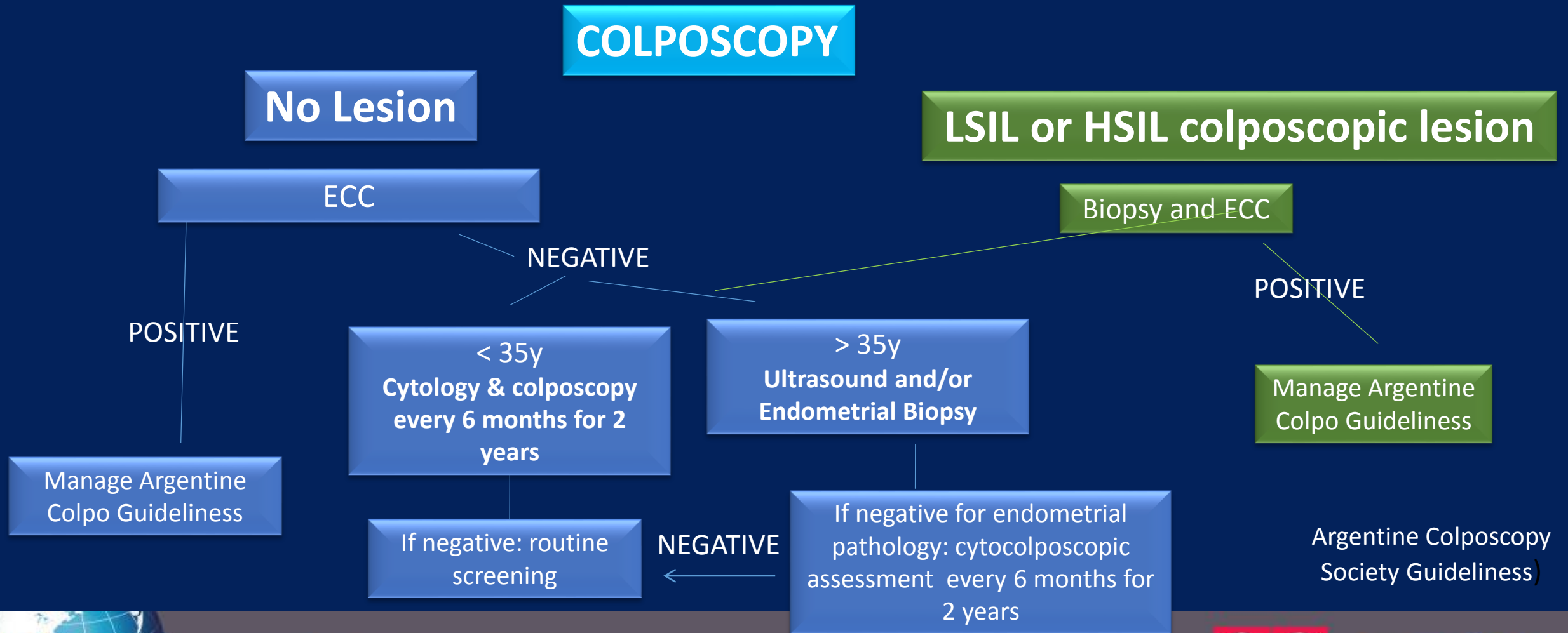
LSIL or HSIL
colposcopic lesion

Biopsy

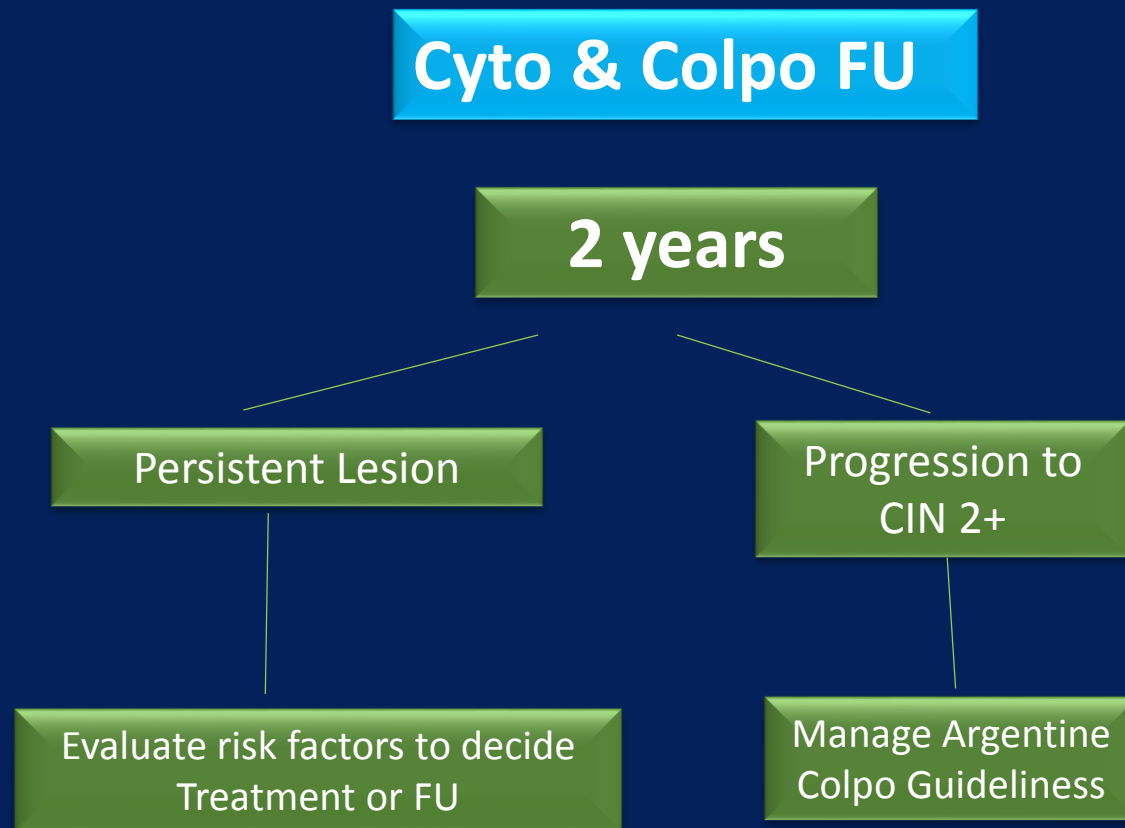
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Management of Women with AGC



Management of Women with Biopsy confirmed LSIL (and cytology LSIL or minor)



Argentine Colposcopy
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Management of Women with Biopsy confirmed LSIL (with cytology ASC-H / HSIL or mayor lesion suspected by colposcopy)

2 ways are possible

Repeat Cytology and perform new colposcopy

Diagnostic change

Treatment according to diagnostic

Confirmed diagnostic

Excisional Procedure

Excisional Procedure in cases of

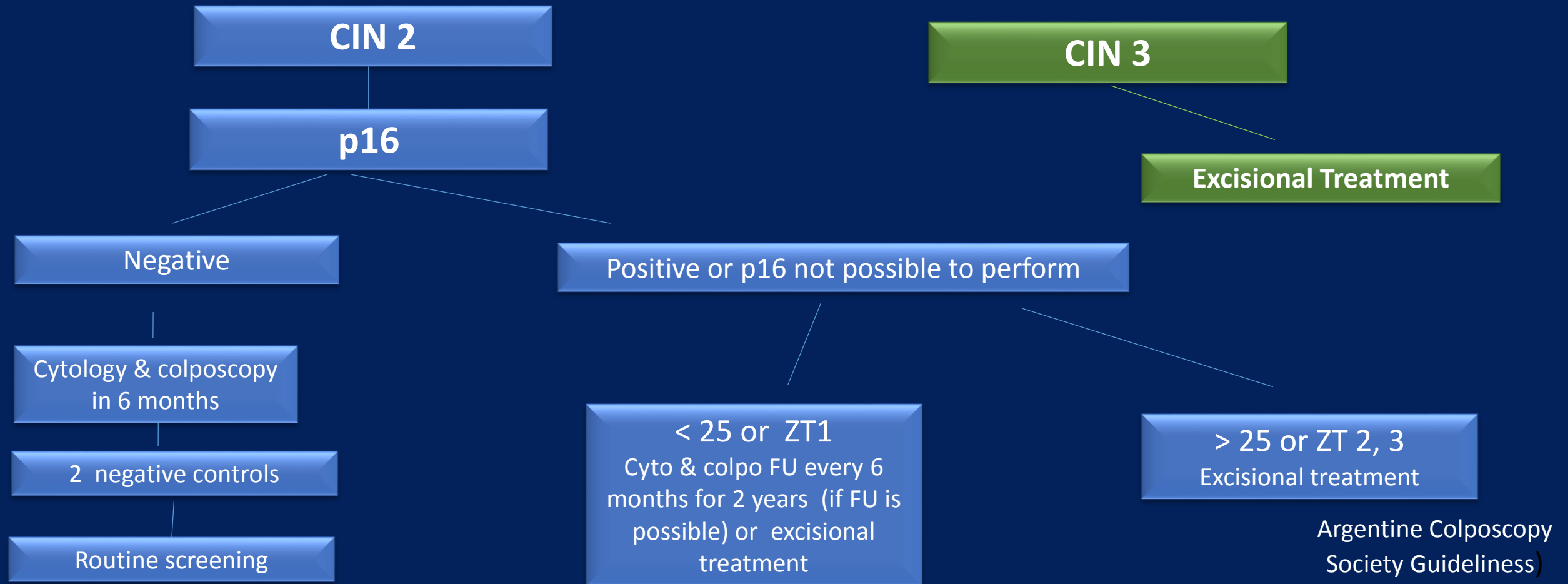
ZT 3

ECC positive

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Management of Women with CIN 2 - 3



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Pregnant Women

- L-SIL: cyto & colpo examination with biopsy if HSIL + is suspected and new evaluation at 6-8 weeks after delivery.
- H-SIL: cyto & colpo examination every 12 weeks with biopsy if more lesion is suspected. New evaluation at 6-8 weeks after delivery

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2011 IFCPC Nomenclature¹
Accepted in Rio World Congress, July 5, 2011
 Nomenclature Committee chairman: Jacob Bornstein MD

2011 IFCPC colposcopic terminology of the cervix¹

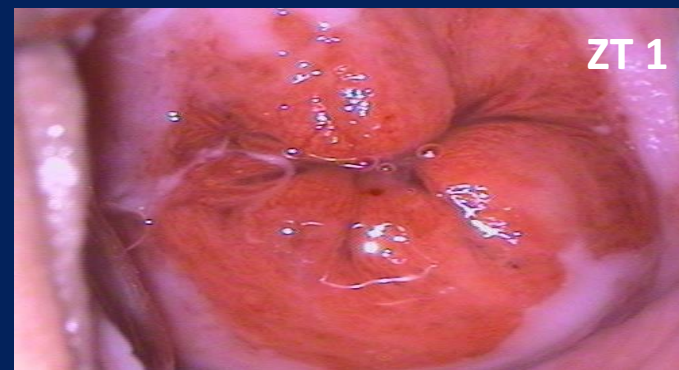
General assessment		<ul style="list-style-type: none"> Adequate/inadequate for the reason ... (i.e.: cervix obscured by inflammation, bleeding, scar) Squamo-columnar Junction visibility: completely visible, partially visible, not visible Transformation zone types 1,2,3 	
Normal colposcopic findings		Original squamous epithelium: <ul style="list-style-type: none"> Mature Atrophic Columnar epithelium <ul style="list-style-type: none"> Ectopy Metaplastic squamous epithelium <ul style="list-style-type: none"> Nabothian cysts Crypt (gland) openings Deciduous in pregnancy	
Abnormal colposcopic findings	General principles	Location of the lesion: Inside or outside the T-zone, Location of the lesion by clock position Size of the lesion: Number of cervical quadrants the lesion covers, Size of the lesion in percentage of cervix,	
	Grade 1 (Minor)	Thin aceto-white epithelium Irregular, geographic border	Fine mosaic, Fine punctation
	Grade 2 (Major)	Dense aceto-white epithelium, Rapid appearance of acetowhitening, Cuffed crypt (gland) openings	Coarse mosaic, Coarse punctuation, Sharp border, Inner border sign, Ridge sign
	Non specific	Leukoplakia (keratosis, hyperkeratosis), Erosion Lugol's staining (Schiller's test): stained/non-stained	
Suspicious for invasion		Atypical vessels Additional signs: Fragile vessels, Irregular surface, Exophytic lesion, Necrosis, Ulceration (necrotic), tumor/gross neoplasm	
Miscellaneous finding		Congenital transformation zone, Condyloma, Polyp (Ectocervical/ endocervical) Inflammation,	Stenosis, Congenital anomaly, Post treatment consequence, Endometriosis

Treatment of CIN 3

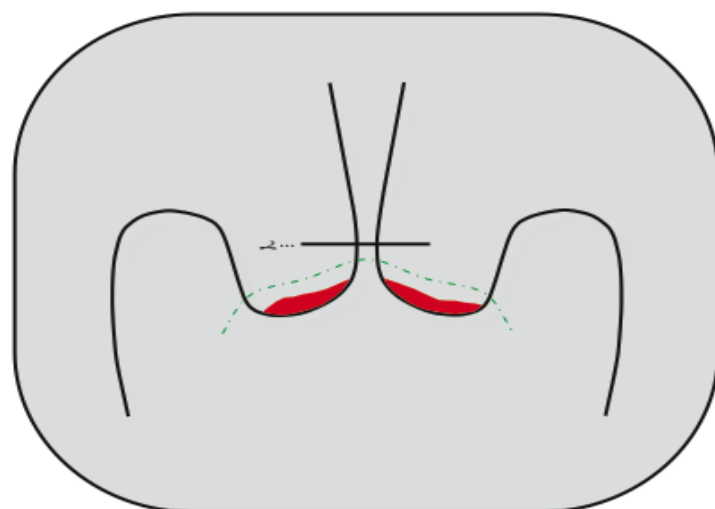
2011 IFCPC colposcopic terminology of the cervix – addendum¹

Excision treatment types	Excision type 1,2,3
Excision specimen dimensions	Length - the distance from the distal/external margin to the proximal/internal margin Thickness - the distance from the stromal margin to the surface of the excised specimen. Circumference (Optional) - the perimeter of the excised specimen





Type 1 Excision

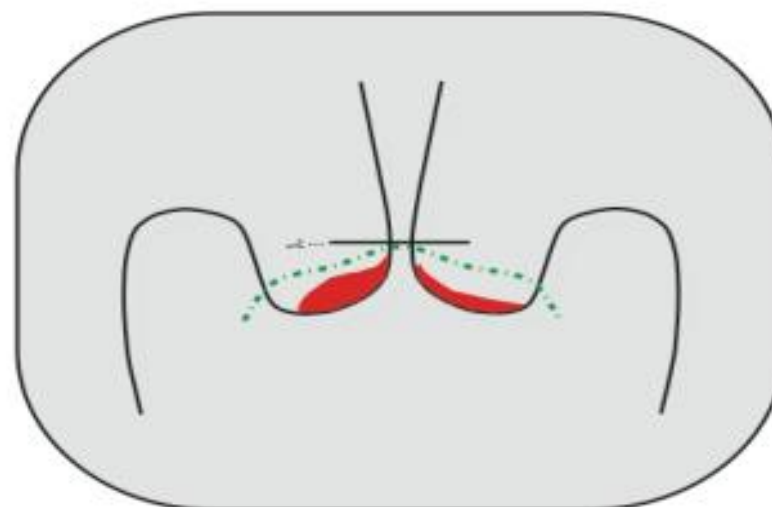


— = upper limit of visibility

■ Type 1 T2

- - - - - Type 1 excision line

Type 2 Excision

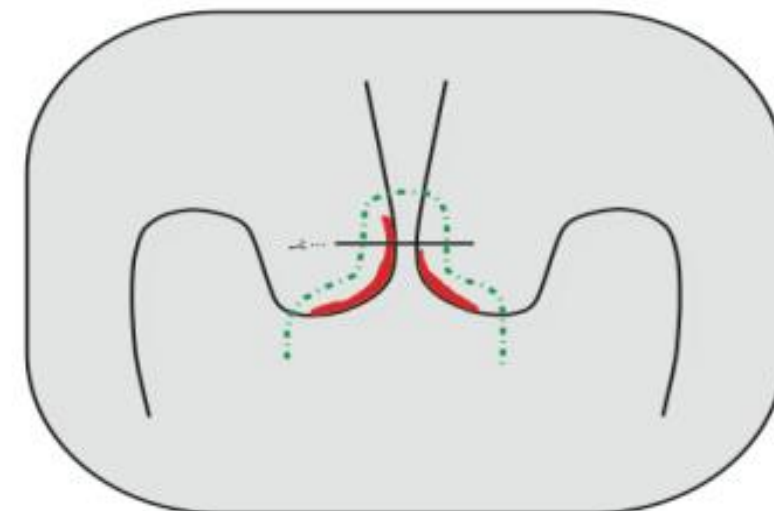


— = upper limit of visibility

■ Type 2 T2

- - - - - Type 2 excision line

Type 3 Excision



— = upper limit of visibility

■ Type 3 T2

- - - - - Type 3 excision line



Post Treatment FU: During 20 years

- Cyto & Colpo every 6 months during 2 y, if -ve routine screening
- Cotest (HPV Test + cytology) at 6 – 12 months
 - Negative:
 - Repeat cotest in one year, if negative repeat cotest every 5 years
 - Positive:
 - Pap test or HPV test +: colposcopy
 - HPV test + but PAP and colposcopy -: cyto & and colpo FU every 6 months



ACOG recommendations

- Major recommendations with consistent scientific evidence include the recommended screening and the follow-up
 - For women with ASC-US, reflex HPV testing is preferred
 - For women with HPV-positive ASC-US, whether identified on reflex HPV testing or co-testing, colposcopy is recommended
 - For women with LSIL and no HPV test or a positive HPV test result, colposcopy is recommended
 - For women with a histologic diagnosis of cervical intraepithelial neoplasia (CIN) 2, CIN 3, or CIN 2,3 and adequate colposcopic examination, both excision and ablation are acceptable treatment modalities, except in pregnant women and young women



CONCLUSIONS

- In countries where HPV testing is available for routine screening:
 - Colposcopy may be required for women with positive HPV results or with repeated unsatisfactory cytological findings that are missing endocervical or transformation zone components.
 - If either Pap smear or HPV testing are positive, co-testing is integrated into follow-up care; colposcopy, HPV DNA typing, or both may be indicated



Thank you!!

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