



CANCER DU COL UTERIN: 70 ans de despistage et le développement

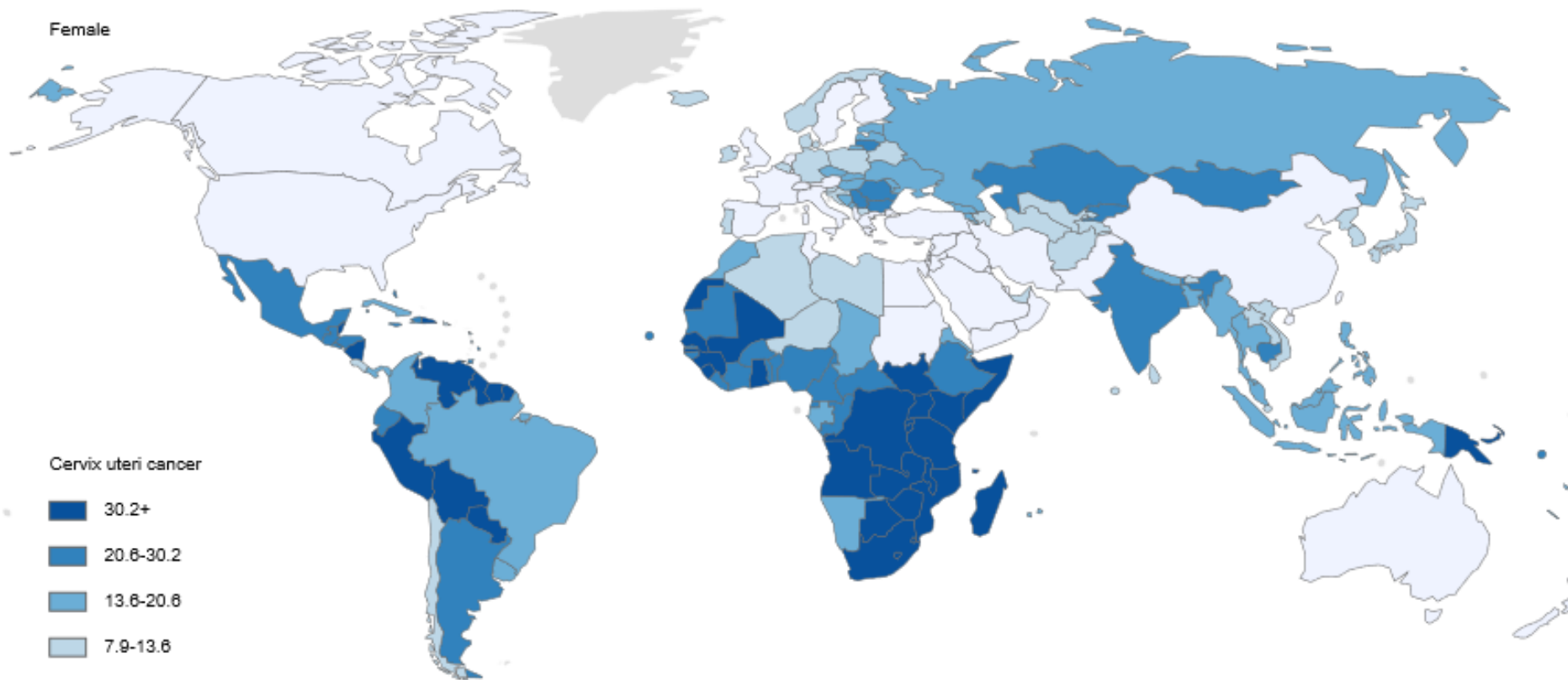
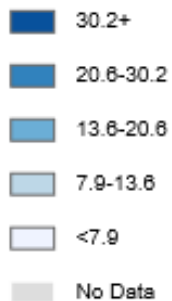
LÊ QUANG THANH
Bệnh viện Từ Dũ

GLOBOCAN 2012: Incidence du K col

Incidence ASR

Female

Cervix uteri cancer

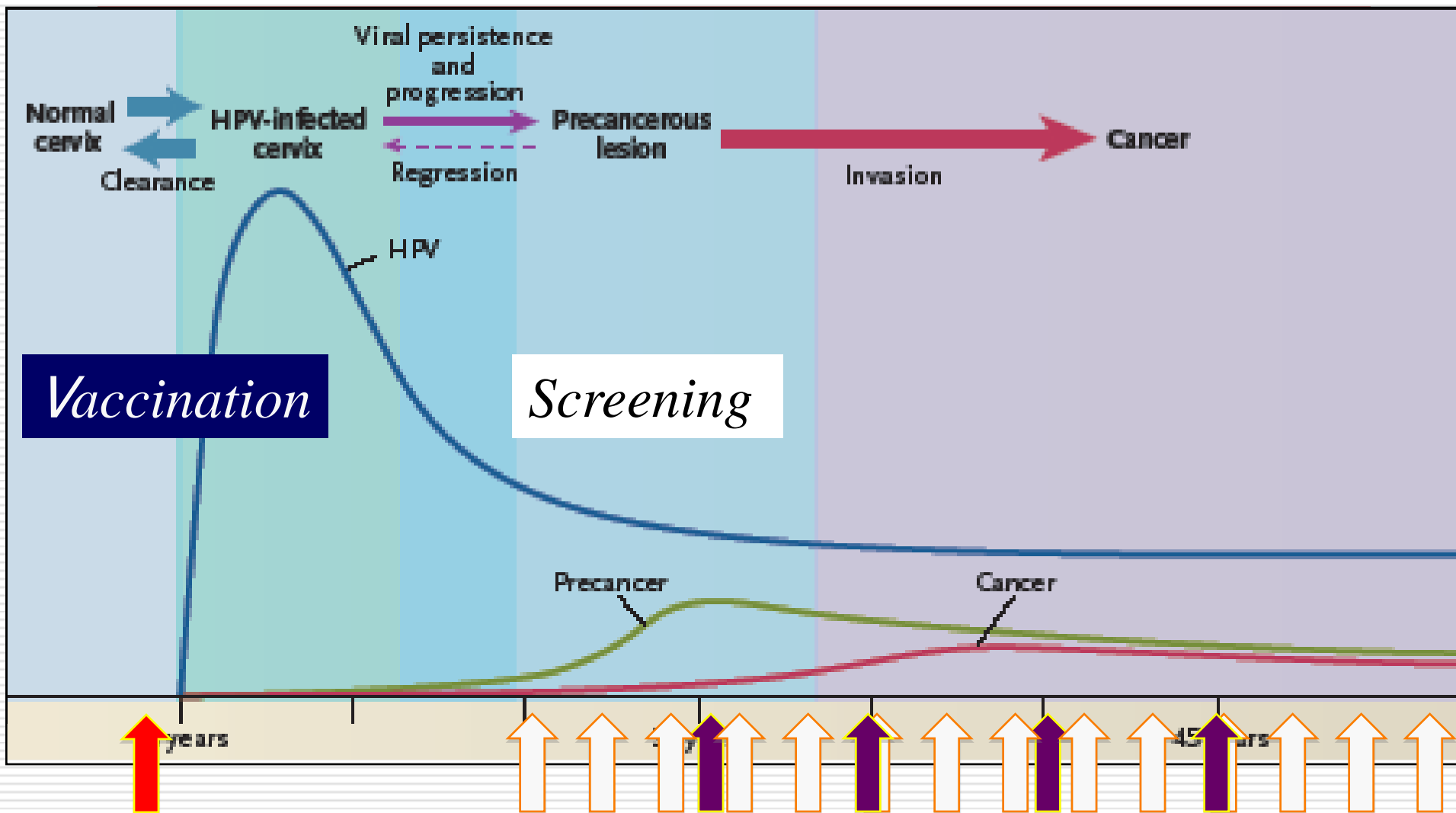


International Agency for Research on Cancer



Source: GLOBOCAN 2012 (IARC)

Stratégies de prévention K col



MÉTHODES DE DÉPISTAGE K col

- **Papsmear test- LBC**

- **Observation du col:**

- VI (unaided Visual Inspection)

- VIA (Visual Inspection using Acetic acid)**

- VILI (Visual Inspection using Lugol's iodine)**

- VIAM (VIA with low level of Magnification)

- Colposcopy

- Cervicography

- **HPV DNA test**

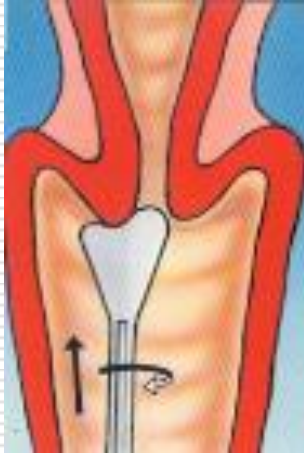


CYTOLOGIE DU COL

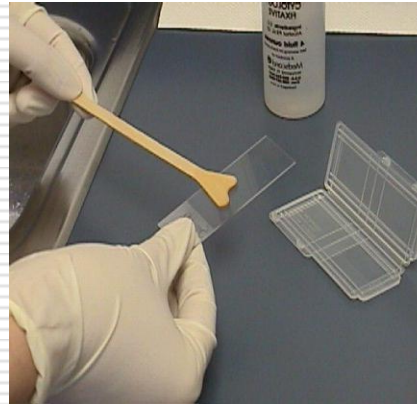
*George Papanicolaou (1883-1962):
Inventor of the Pap Smear*



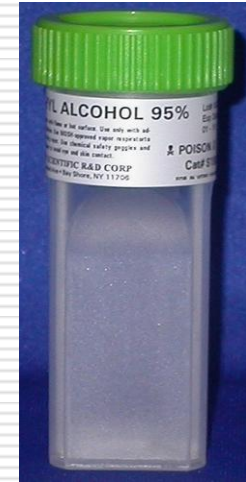
frottis conventionnel



Prelevement



étalement



fixation



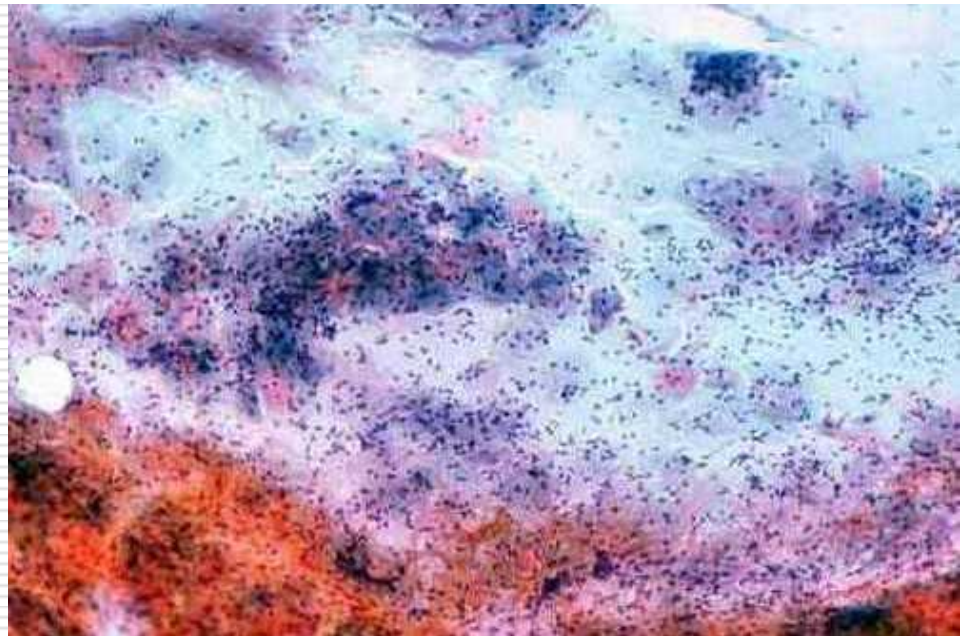
teinture



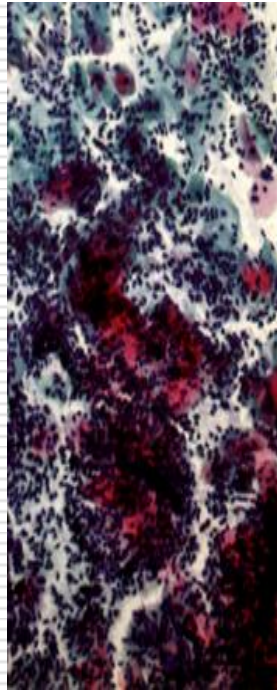
Interprétation

frottis conventionnel

- ❑ Se: 47 – 62%
- ❑ Sp: 60 – 95%
- ❑ Non interprétable :
 - Hématies
 - mucus
 - réaction inflammatoire
 - mauvais étalement: épais



Frottis: Faible Sens



Pap slide –
Poor quality

Journal Reference

Obstet & Gynecol, 2008;
111:167-77

Wright, Clin. Obstet &
Gynecol, 2007, Vol 50, No. 2,
313-323

Mayrand, Franco, NEJM,
2007; Oct 18, Vol 357, No 16

Conclusions

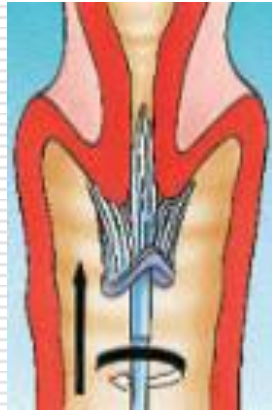
HSIL Sensitivity = 55.2 %
LSIL Sensitivity = 75.6 %
ASCUS = 88.2 %

CIN 2 / 3 Sensitivity = 44-59 %

CIN 2 / 3 Sensitivity = 55.4%

Pap sensitivity can be as low as 55 % for detecting pre-cancer and disease cases

La cytologie en milieu liquide (LBC)



Prelevement



rince & fixation



Filtre, étale



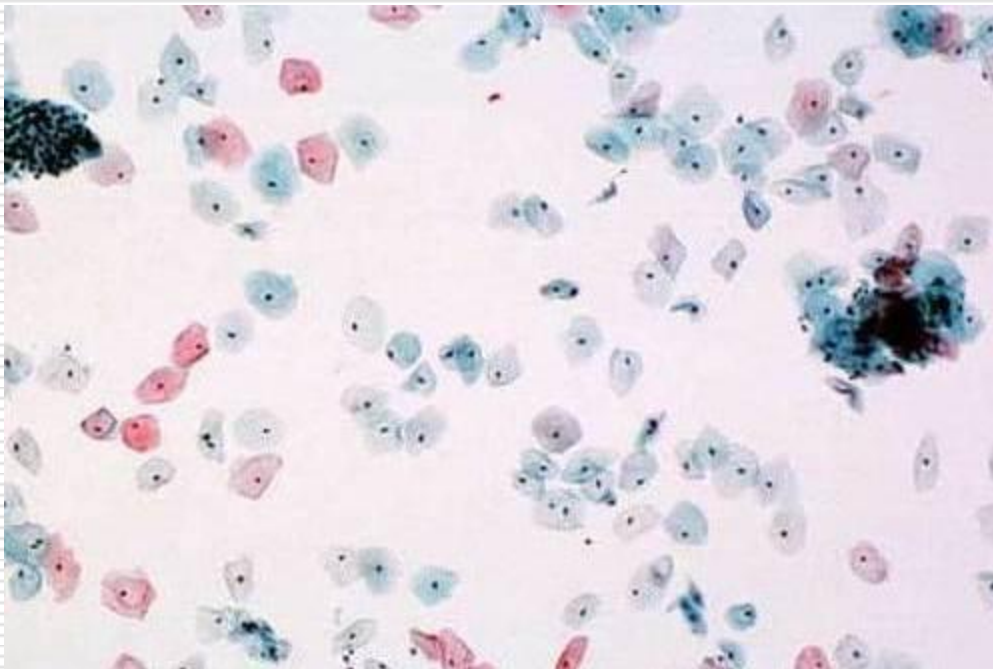
teinture



interpretation

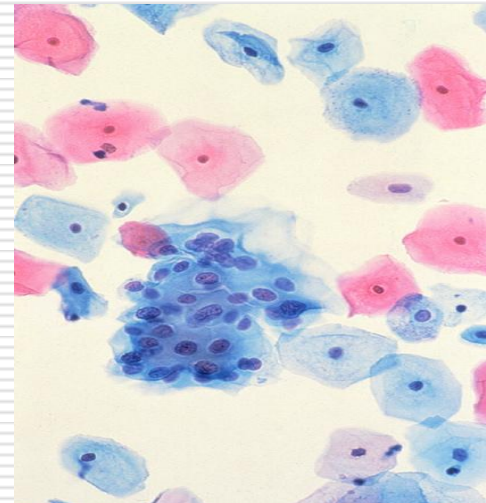
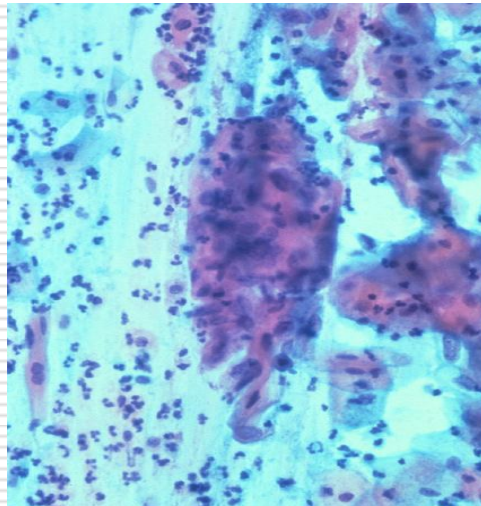
La cytologie en milieu liquide (LBC)

- bonne interprétation:
 - éliminer: Hématies, réaction muqueuse inflammatoire
 - lame en couche mince
 - Sens à 75%



Limitation de PAP et LBC

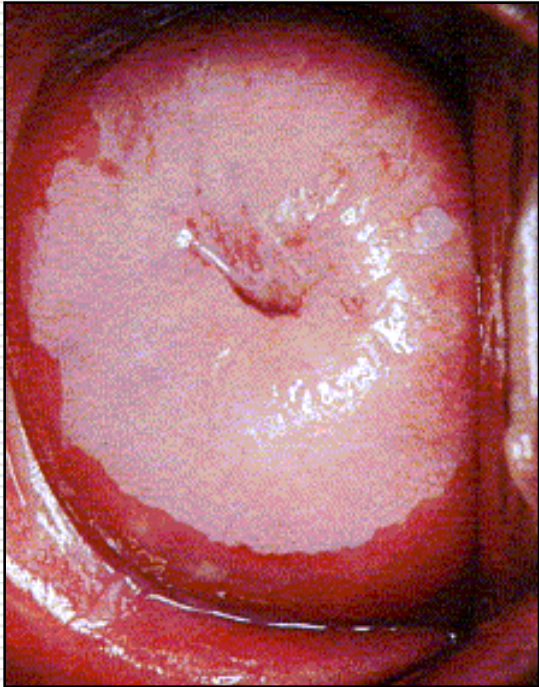
- Faible Sens
- Refait annuel
- Subjective
- Les erreurs d'échantillonnage
- **détection symptômes non la cause**





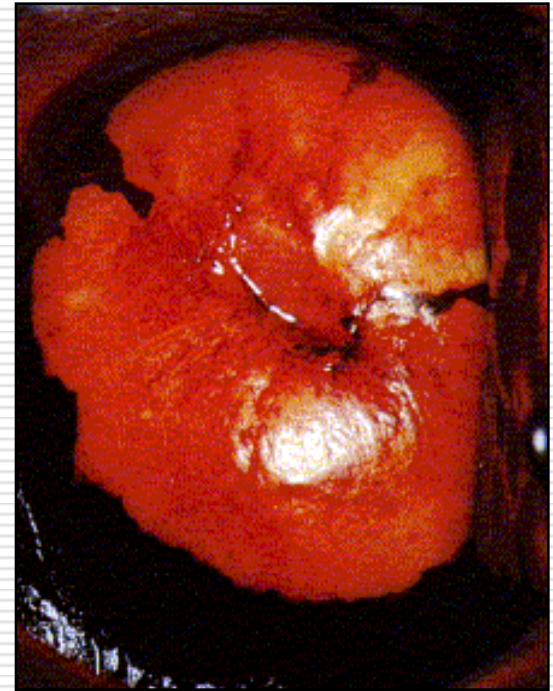
VIA - VILI

HSIL?



a

(a) VIA-positive:



b

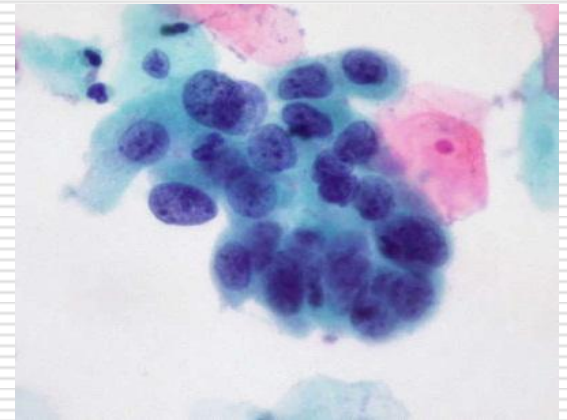
(b) VILI-positive

Dépistage conventionnel

■ Frottis

□ Sens: 40 - 75%

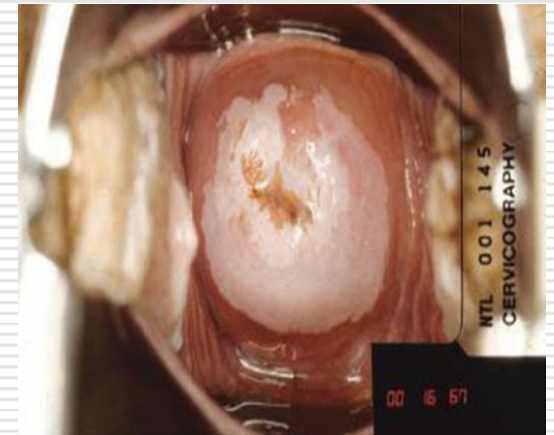
□ Spe: 90 - 98%



■ VIA - VILLI

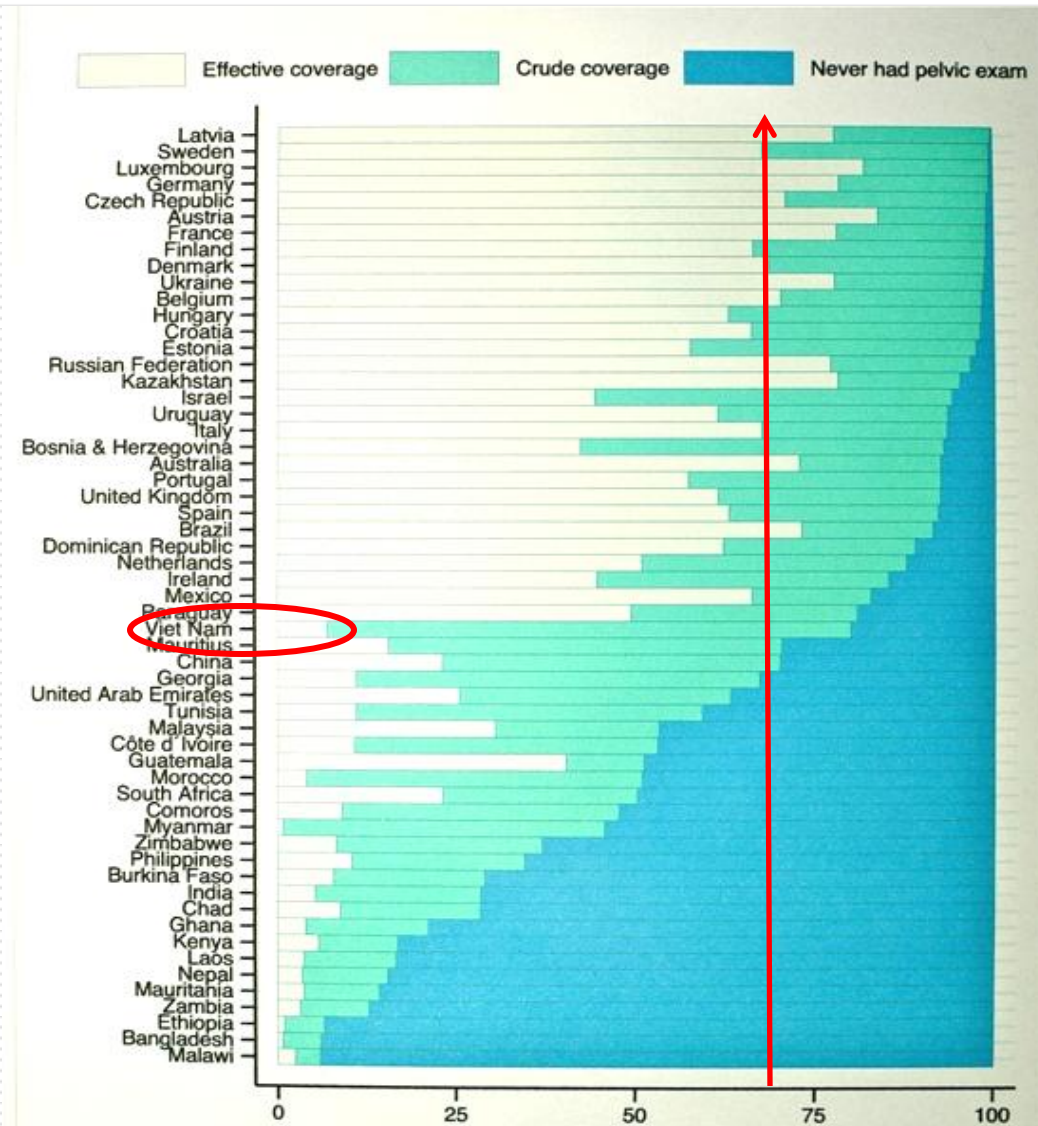
□ Sens: 40 - 70%

□ Spe: 40 - 70%

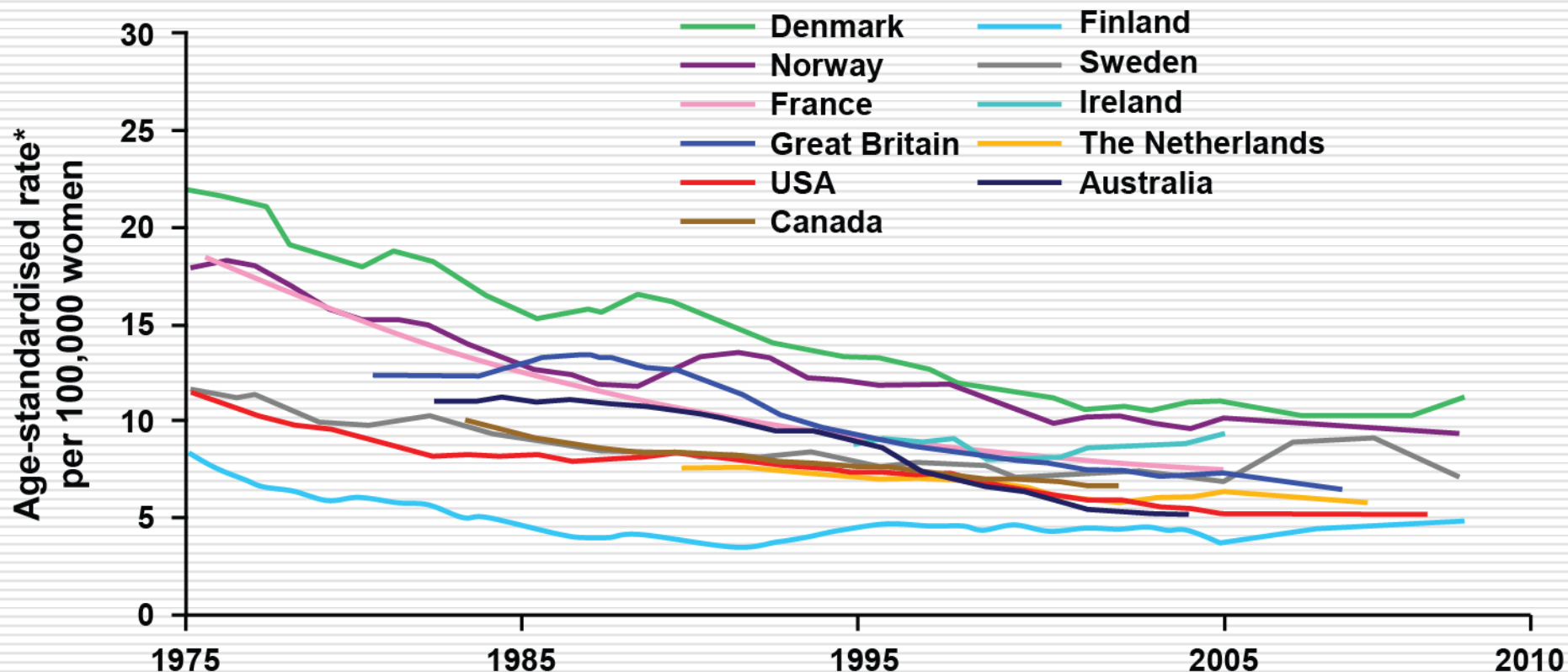


La couverture du programme de dépistage chez les femmes de 25-64 ans

- La couverture de la population à risque
- Minimum de 70% de couverture → incidence K Col
- Qualité de test de dépistage: essentielle



Incidence de K col: mondiale



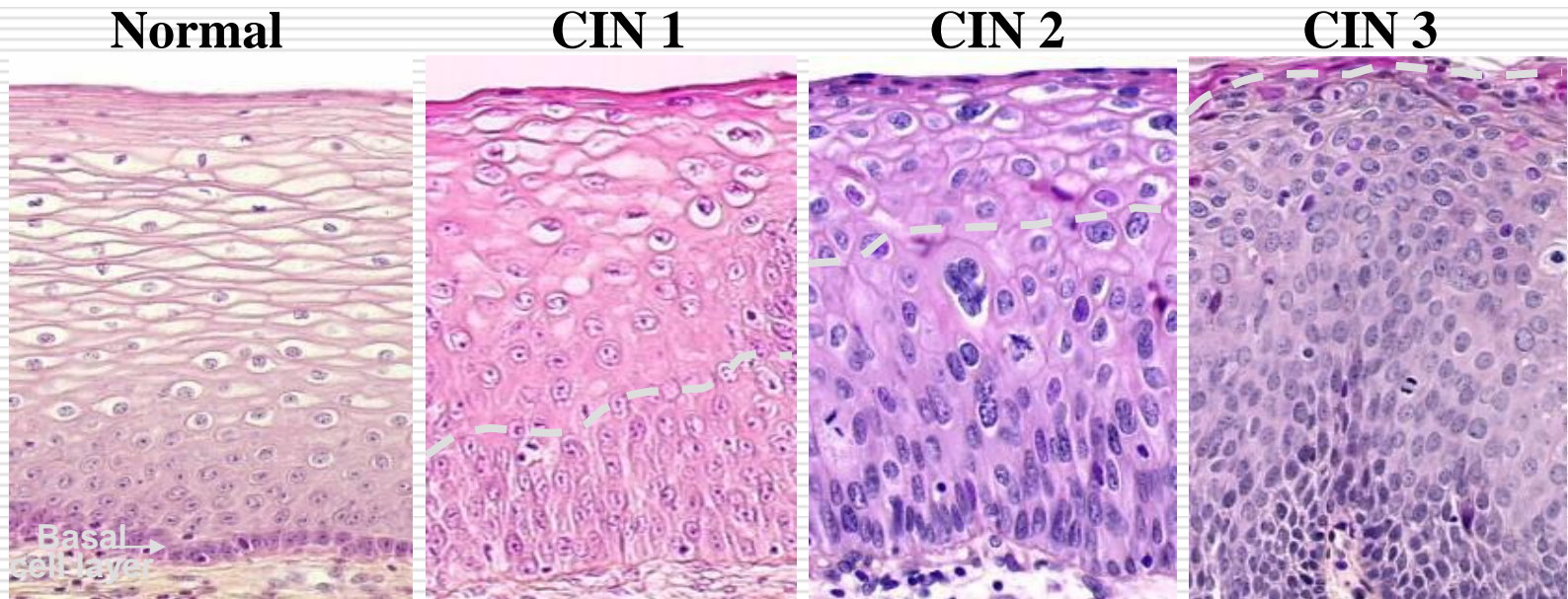
Cytologie ne peut plus réduire l'incidence de K col



Colposcopie

Dysplasie cervicale: CIN¹

- CIN 1: légère; condyloma²
- CIN 2: modéré²
- CIN 3: sévère; CIS^{2,3}



All figures reprinted with permission from Frappart, et al. Histopathology and Cytopathology of the Uterine Cervix. Digital Atlas, Lyon, France: IARC Press, 2004.

Images de histologie⁴

1. Frappart L, Fontaniere B, Lucas E, Sankaranarayanan R, eds. Lyon, France: International Agency for Research on Cancer; 2004. 2. Bonne W. In: Richman DD, Whitley RJ, Hayden FJ, eds. Washington, DC: American Society for Microbiology Press; 2002:557–596. 3. Canadian Cancer Society. Available at: http://www.cancer.ca/vgn/images/portal/cit_86751114/63/40/151140772cw_library_wyntk_cervical_en.pdf. Accessed March 13, 2006. 4. Wright TC Jr, Cox JT, Massad LS, et al. *JAMA*. 2002;287:2120–2129.

Images de CIN sous Colposcopie

Histologie sous la Colposcopie¹

- CIN 1: légère; condyloma ²
- CIN 2: modéré²
- CIN 3: sévère; CIS^{2,3}

CIN 1



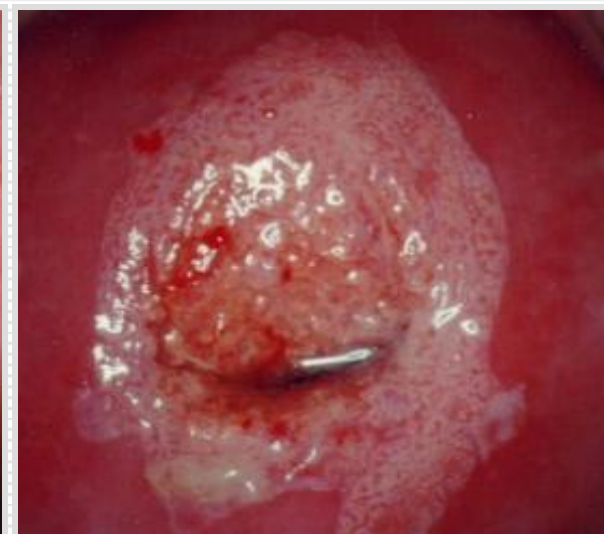
Photo courtesy of Dr. J. Monsonego

CIN 2



Photo courtesy of Dr. J. Monsonego

CIN 3



From IARC, 2003.⁴

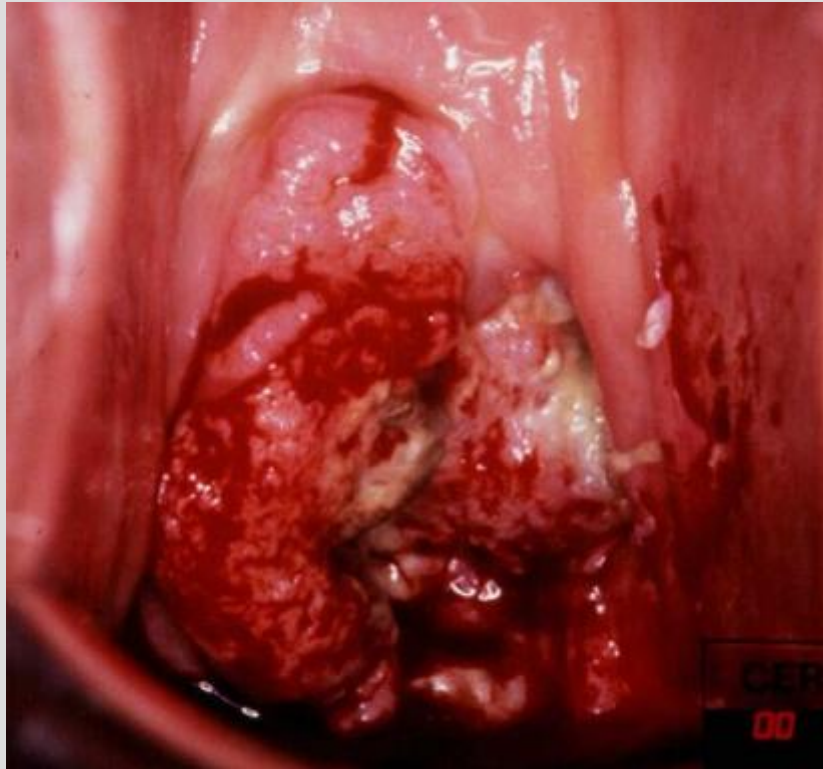
1. Wright TC Jr, Cox JT, Massad LS, et al. *JAMA*. 2002;287:2120–2129. 2. Bonnez W. In: Richman DD, Whitley RJ, Hayden FJ, eds. Washington, DC: American Society for Microbiology Press; 2002:557–596. 3. Canadian Cancer Society. Cervical Cancer: Available at: http://www.cancer.ca/vgn/images/portal/cit_86751114/63/40/151140772cw_library_wyntk_cervical_en.pdf. Accessed March 13, 2006. 4. Reprinted with permission from Sellors JW, Sankaranarayanan R, eds. Colposcopy and Treatment of Cervical Intraepithelial Neoplasia. A Beginner's Manual. Lyon, France: International Agency for Research on Cancer; 2003.

Colposcopie: Adénocarcinome du Col

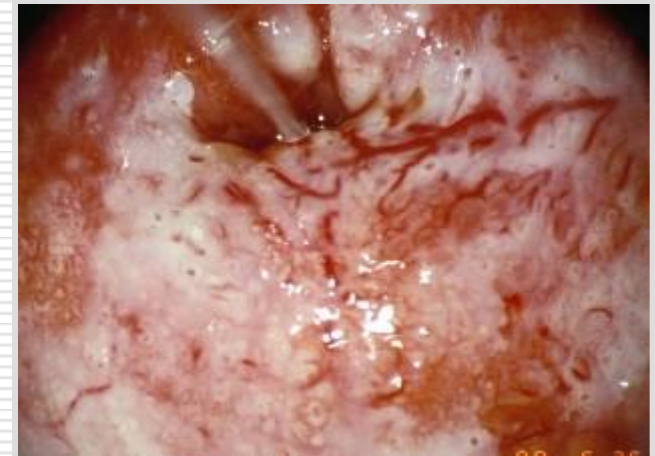


Photo courtesy of Dr. J. Monsonego

Colposcopie: K Col invasif



From IARC, 2003.¹



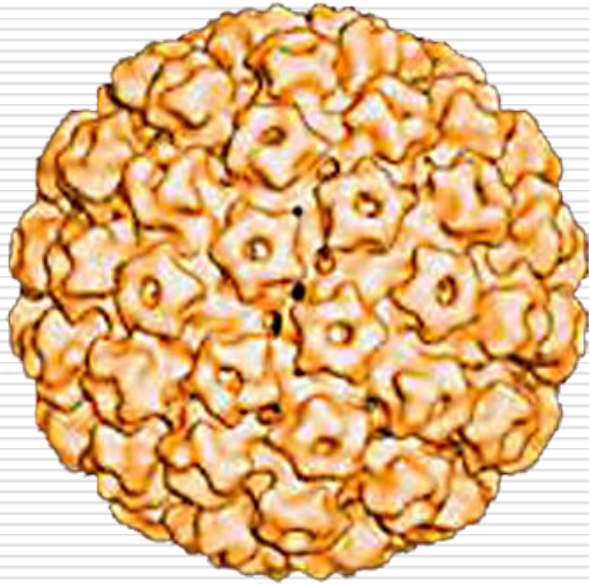
Photos courtesy of Dr. J. Monsonego

1. Reprinted with permission from Sellors JW, Sankaranarayanan R, eds. Colposcopy and Treatment of Cervical Intraepithelial Neoplasia. A Beginner's Manual. Lyon, France: International Agency for Research on Cancer; 2003.



HPV & Cancer du Col

VPH ?

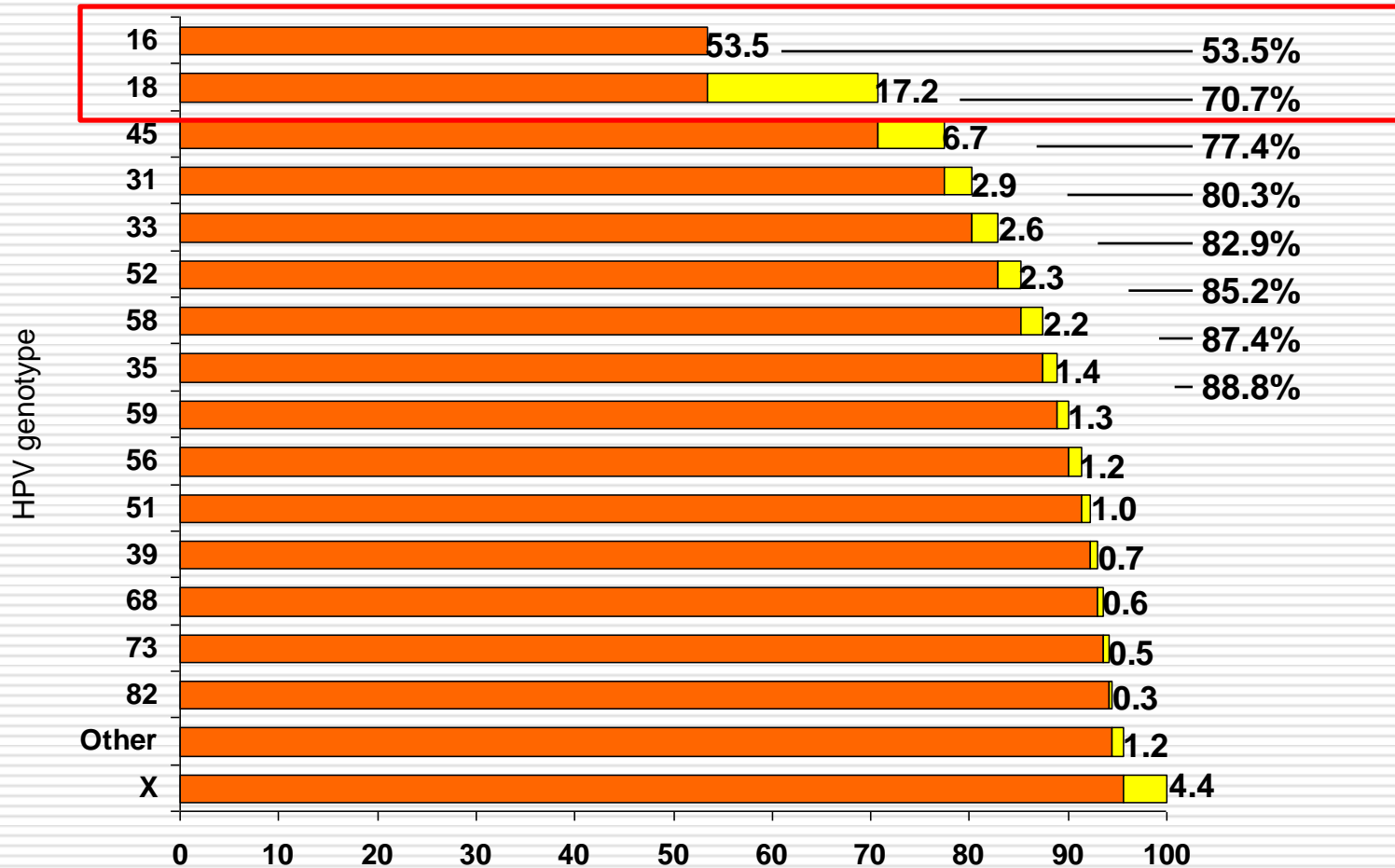


Virus à ADN, sans capsule

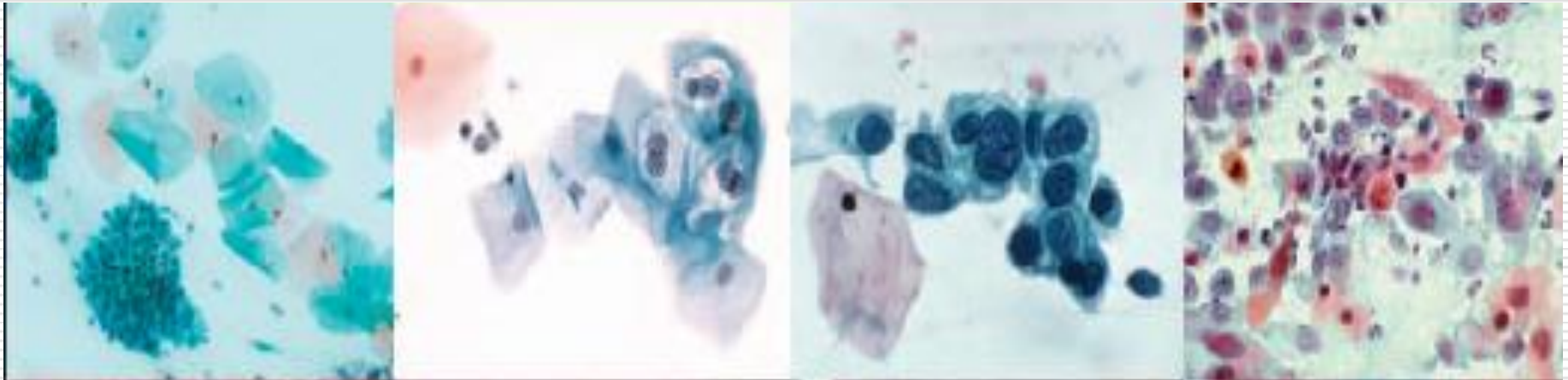
- ❑ Le virus du papillome humain (VPH)
- ❑ infectent les muqueuses génitales et la peau.
- ❑ ~100 génotypes de VPH³
- ❑ plus 13 types VPH liés K col⁴
- ❑ K Col: VPH 16 et 18.

Early detection of HPV saves lives!

Génotypes du VPH associés au K col

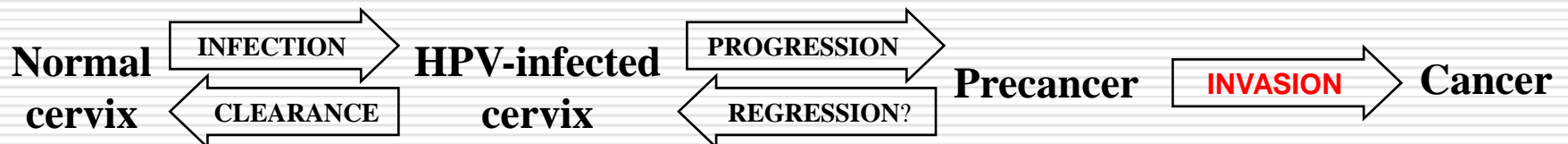


évolution



Transient infection

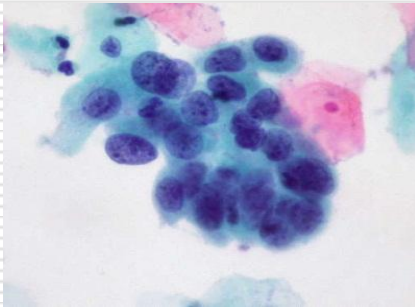
Persistent HPV





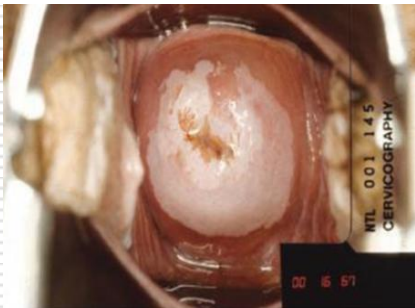
VPH vs PAP test

Comparaison des méthodes de dépistage



■ Pap

- Se: 40-75%
- Sp: 90-98%



■ VIA

- Se : 40-70%
- Sp: 40-70%

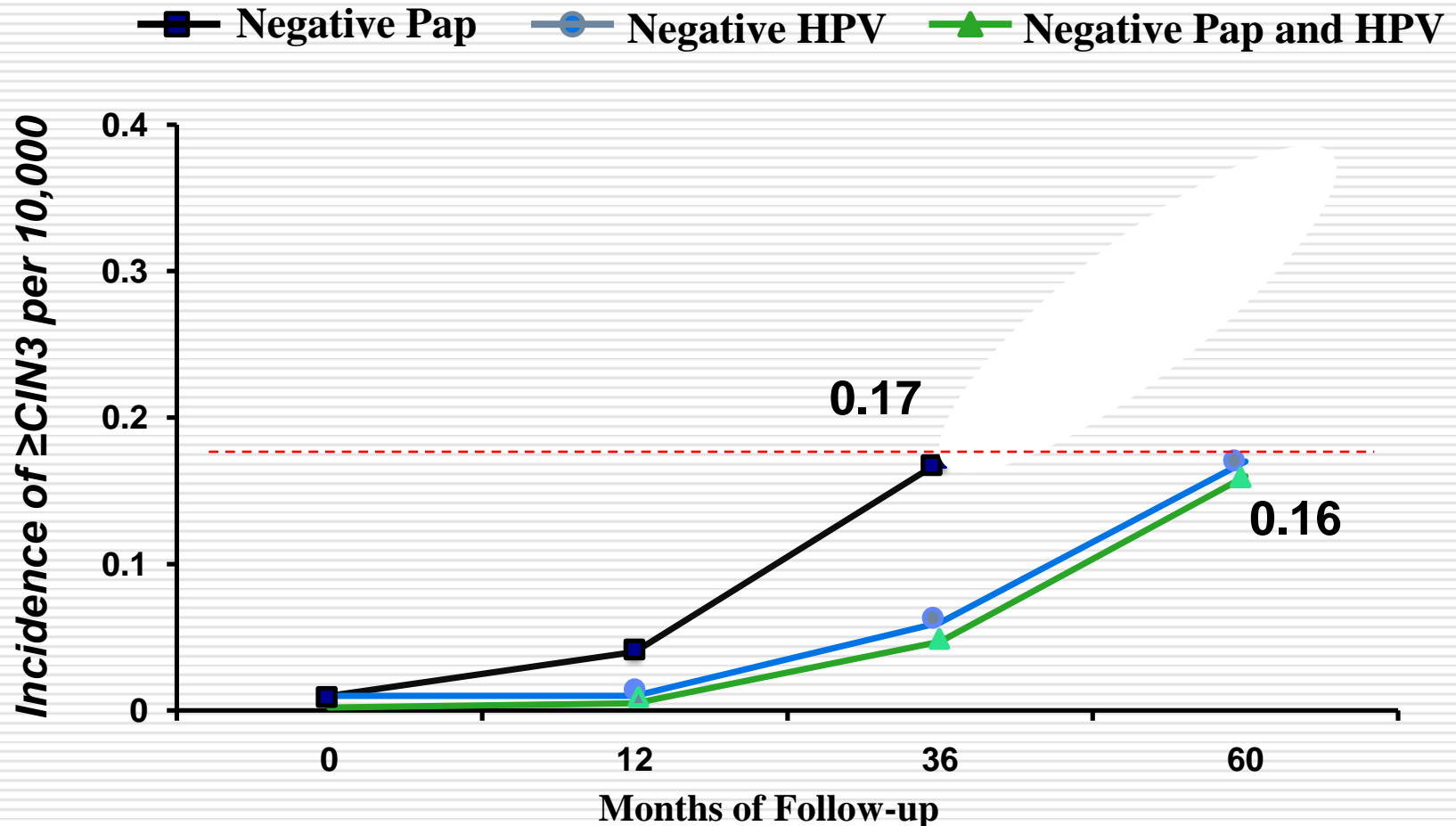


■ HPV testing

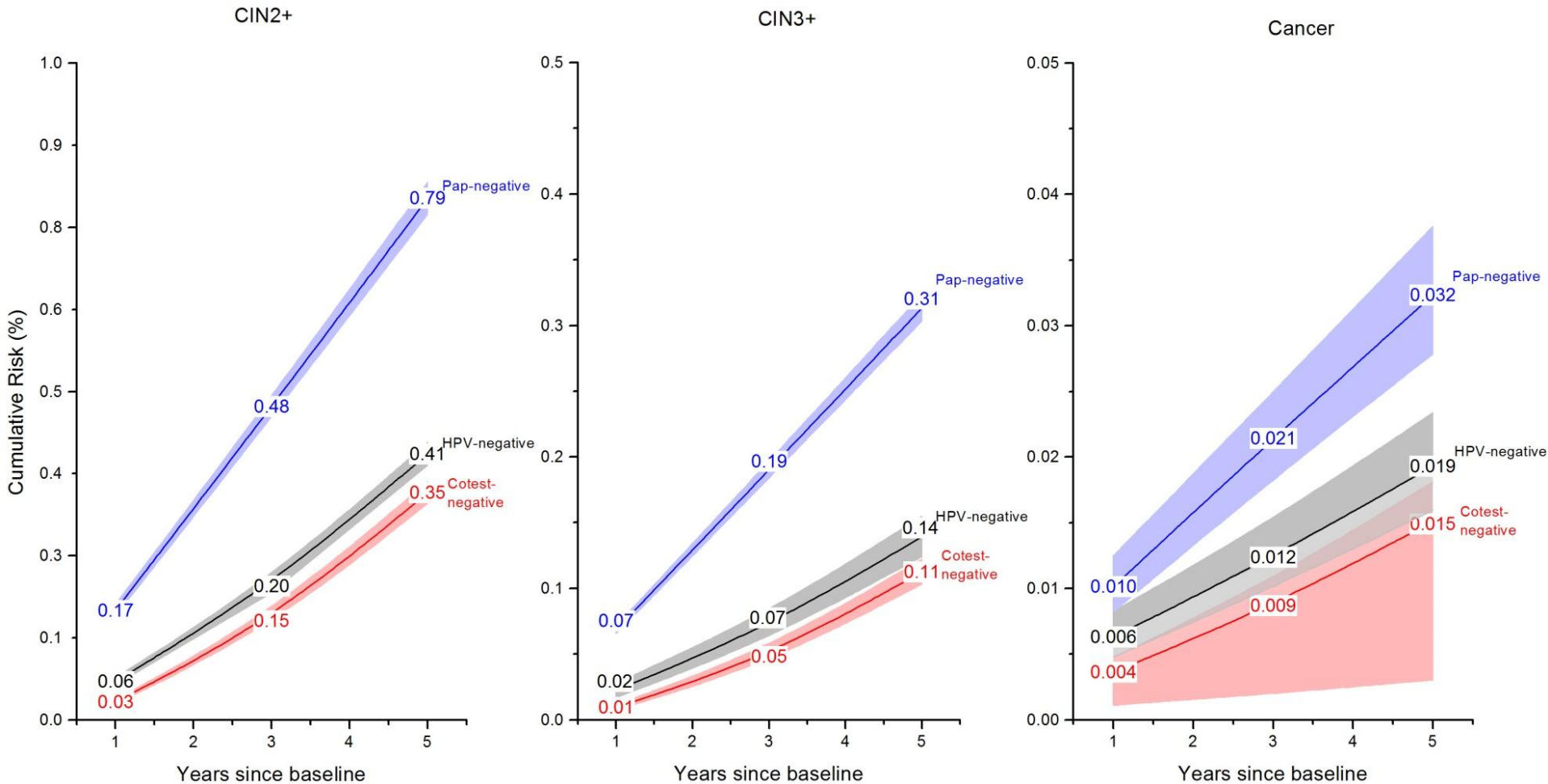
- Se : 90 – 100%
- Sp: 92 – 96%

Risque \geq CIN3 post test (-) 5 ans

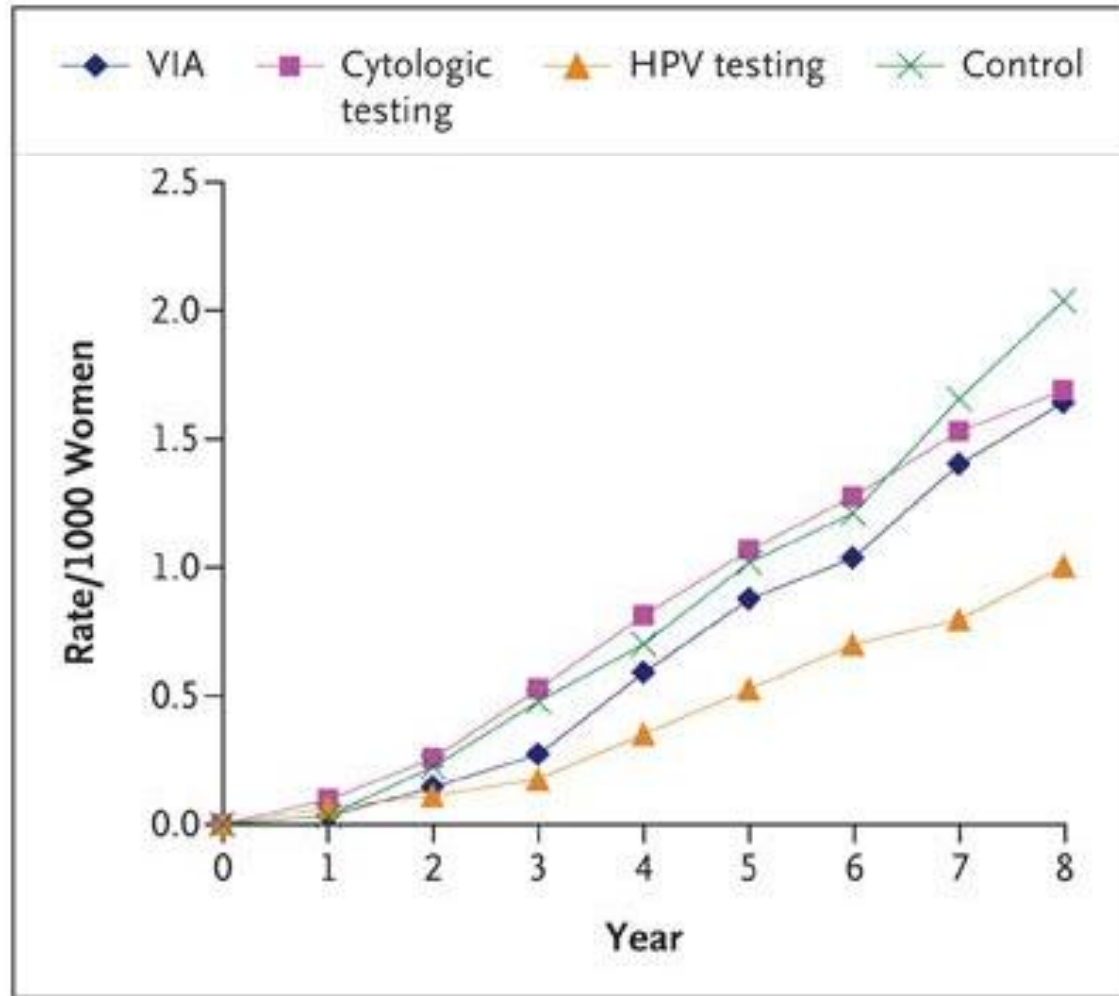
Étude de Kaiser > 300.000 femmes



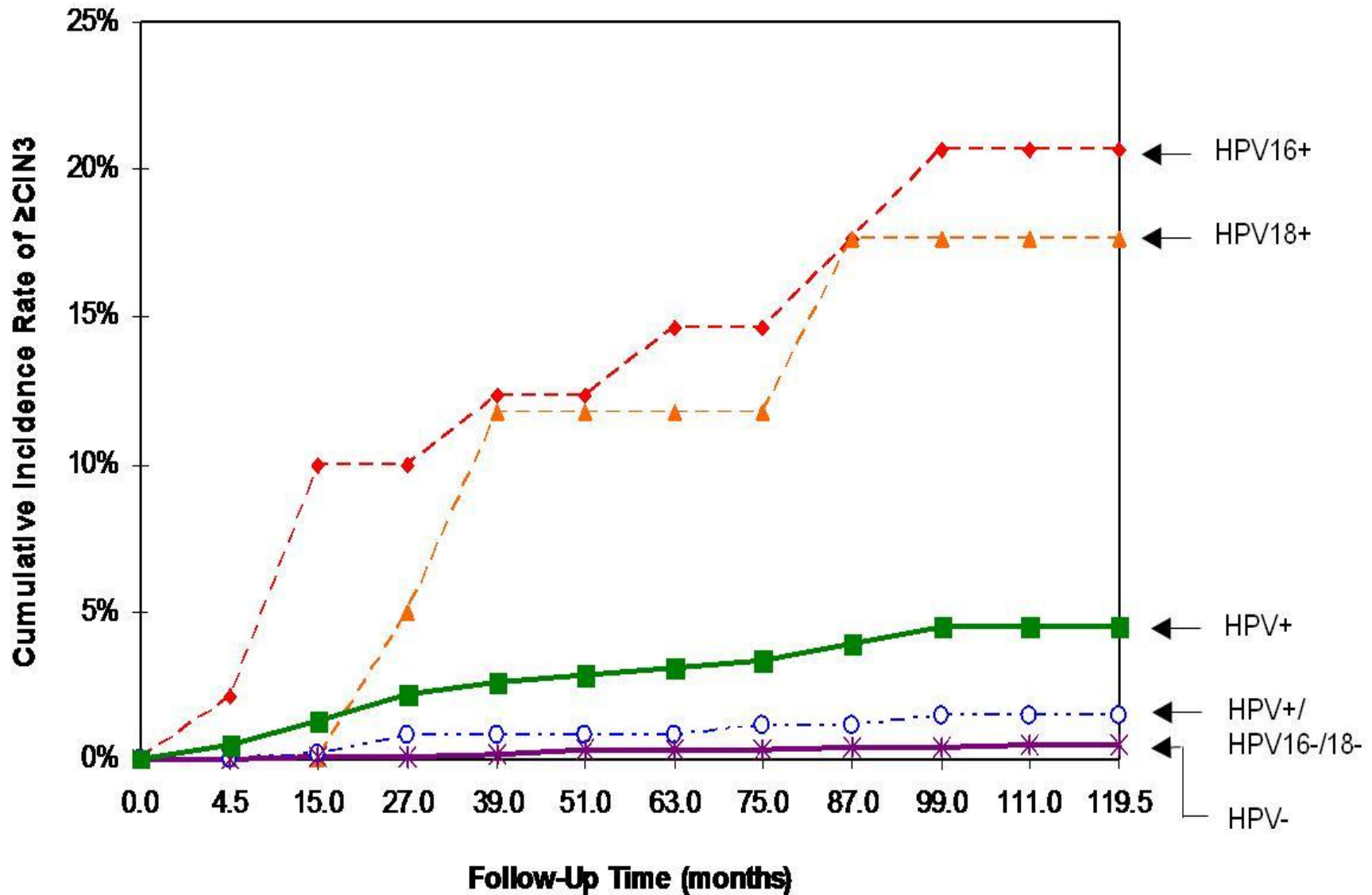
Risque post test (-) de 1 000 000 femmes ont fait test de dépistage



VPH test réducte le mortalité de K Col (Inde)



Stratification le risque quand HPV+/Pap-



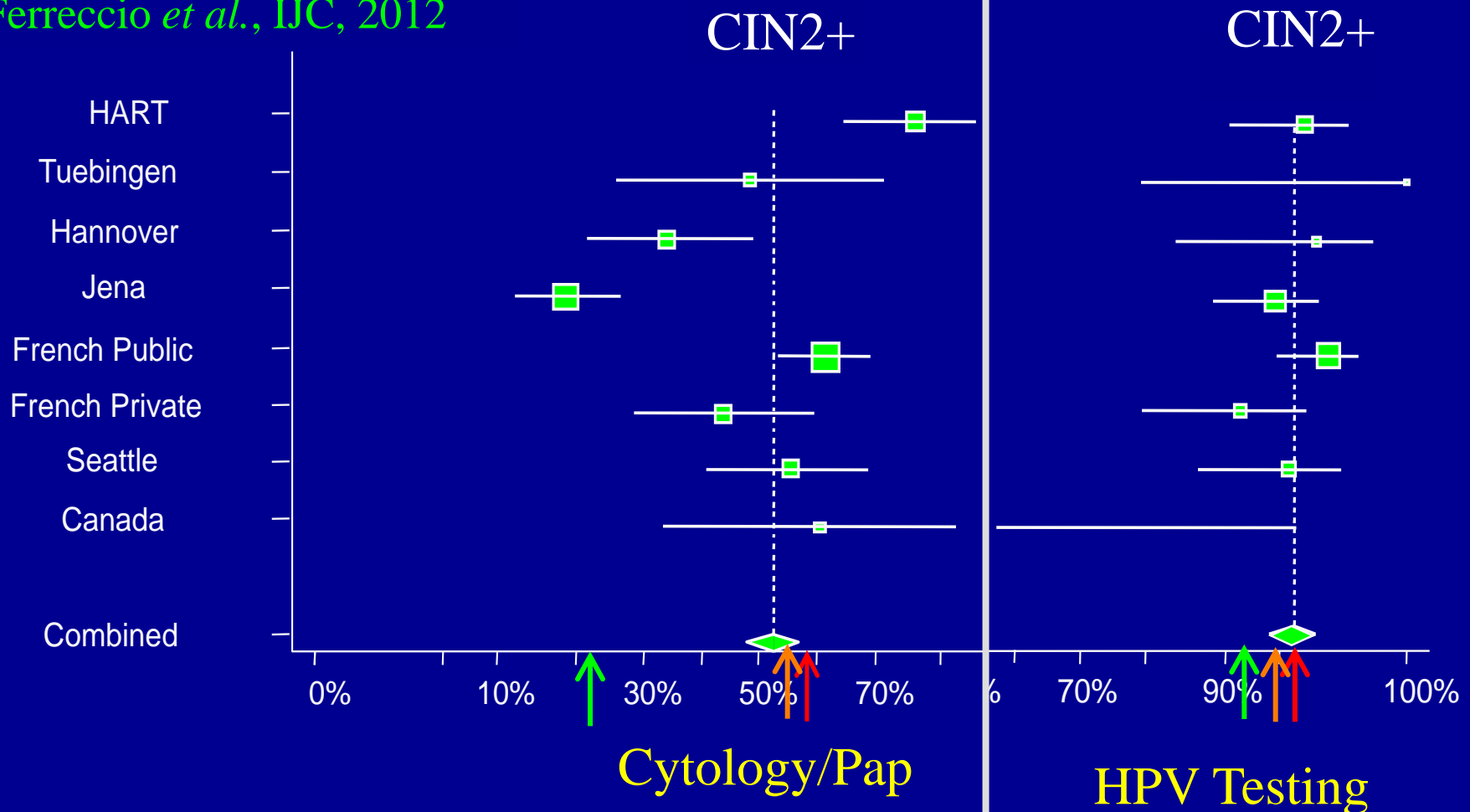
Sensibilité: CIN2+

Cuzick *et al.*, IJC, 2006

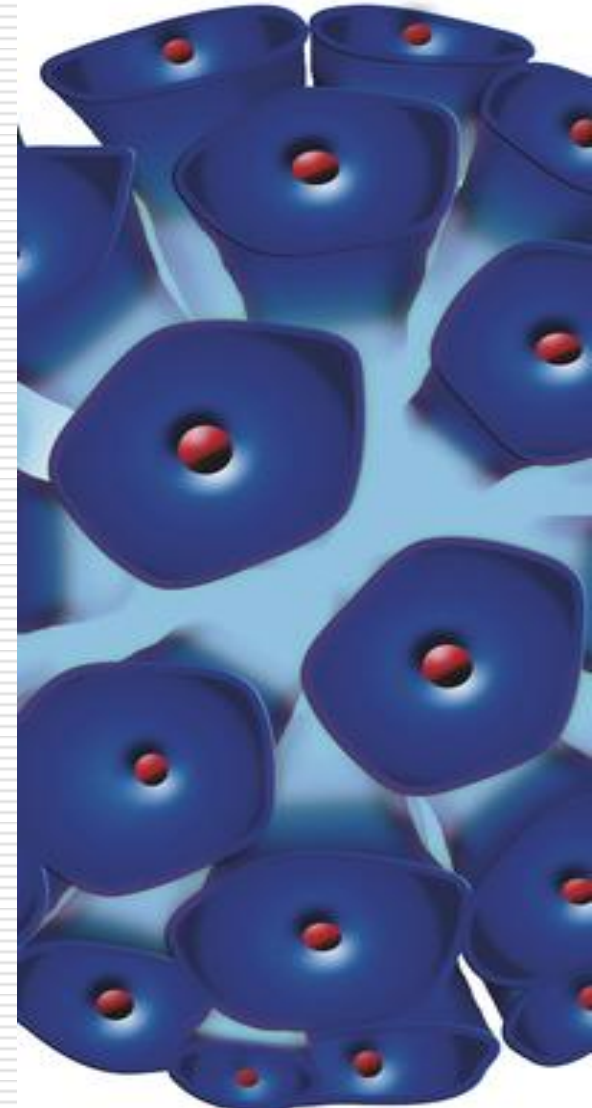
Mayrand *et al.*, NEJM, 2007

Castle *et al.*, LO, 2011

Ferreccio *et al.*, IJC, 2012



VPH test et K col



- Test dépistage du VPH chez les femmes de 25-65 ans réduit les décès par K col de l'utérus(2004, IARC).
- “Même une fois VPH [ADN] positives chez les femmes ont Pap négative est également un prédicteur important de CIN de haut niveau” (Kjaer 2005, Cancer Research).



International Agency for Research on Cancer
Centre International de Recherche sur le Cancer

Réduire la morbidité et la mortalité K Col

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HPV Screening for Cervical Cancer in Rural India

Rengaswamy Sankaranarayanan, M.D., Bhagwan M. Nene, M.D., F.R.C.P., Surendra S. Shastri, M.D., Kasturi Jayant, M.Sc., Richard Muwonge, Ph.D., Atul M. Budukh, Ph.D., Sanjay Hingmire, B.Sc., Sylla G. Mahvi, M.Sc., Ph.D., Ranjit Thorat, B.Sc., Ashok Kothari, M.D., Roshan Chinyo, M.D., Rohini Kelkar, M.D., Shubhada Kane, M.D., Sangeetha Desai, M.D., Vijay R. Keskar, M.S., Ragheendra Rajeshwarkar, M.D., Nandkumar Panse, B.Com., and Ketayun A. Dirshaw, M.D., F.R.C.R.

ABSTRACT

BACKGROUND

In October 1999, we began to measure the effect of a single round of screening by testing for human papillomavirus (HPV), cytologic testing, or visual inspection of the cervix with acetic acid (VIA) on the incidence of cervical cancer and the associated rates of death in the Osmanabad district in India.

METHODS

In this cluster-randomized trial conducted in 52 clusters of villages, 131,746 healthy women between the ages of 30 and 59 years were randomly assigned to four groups of 13 clusters each. The groups were randomly assigned to undergo screening by HPV testing (4,126 women), cytologic testing (2,058), or VIA (34,074) or to receive standard care (31,488, control group). Women who had positive results on screening underwent colposcopy and directed biopsies, and those with cervical precancerous lesions or cancer received appropriate treatment.

RESULTS

In the HPV-testing group, cervical cancer was diagnosed in 127 subjects (of whom 39 had stage II or higher), as compared with 118 subjects (of whom 82 had advanced disease) in the control group (hazard ratio for the detection of advanced cancer in the HPV-testing group, 0.47; 95% confidence interval [CI], 0.32 to 0.69). There were 34 deaths from cancer in the HPV-testing group, as compared with 64 in the control group (hazard ratio, 0.52; 95% CI, 0.33 to 0.83). No significant reductions in the numbers of advanced cancers or deaths were observed in the cytologic-testing group or in the VIA group, as compared with the control group. Mild adverse events were reported in 0.1% of screened women.

CONCLUSIONS

In a low-resource setting, a single round of HPV testing was associated with a significant reduction in the numbers of advanced cervical cancers and deaths from cervical cancer.

From the International Agency for Research on Cancer, Lyon, France (R.S., R.M.), and the Nargis Dutt Memorial Cancer Hospital, Tata Memorial Centre Rural Cancer Project, Barshi (B.M.N., K.J., A.M.B., S.H., S.G.M., R.T., A.K., V.R.K., R.R., N.P.), and the Tata Memorial Centre, Mumbai (S.S.S., R.C., R.K., S.K., S.D., K.A.D.) — both in India. Address reprint requests to Dr. Sankaranarayanan at the International Agency for Research on Cancer, 150 cours Albert Thomas, Lyon 69008, France, or at sankan@iarc.fr.

N Engl J Med 2009;360:999-1008.
Copyright © 2009 Massachusetts Medical Society.

➔ “Test dépistage du VPH réduit l’incidence et mortalité du K col...”

➔ “Test HPV est plus objective et facile à mettre en œuvre que d’autres tests de dépistage”

Recommandation du test de dépistage du K col par VPH ADN

The logo for the American Society for Colposcopy and Cervical Pathology (ASCCP) features the acronym 'ASCCP' in white letters on a dark blue rectangular background.

AMERICAN SOCIETY
FOR COLPOSCOPY AND
CERVICAL PATHOLOGY

2013

Le dépistage du VPH ne devrait détecter les types à haut risque oncogénique (16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59)

ASCCP: American Society for Colposcopy and Cervical Pathology

The logo for the American College of Obstetricians and Gynecologists (ACOG) features the acronym 'ACOG' in large, bold, blue letters.

THE AMERICAN CONGRESS OF
OBSTETRICIANS AND GYNECOLOGISTS

2012

Le test HPV orienté vers type à haut risque. Tests pour les groupes de HPV à faible risque devraient pas être menées.

ACOG: American College of Obstetricians and Gynecologists

A circular graphic containing a light blue background with a white DNA double helix and a blue test tube with a white pipette tip. The text 'ARHP, CDC... ont même recommandations' is overlaid in white.

ARHP: Association of Reproductive Health Professionals CDC: Centers for Disease Control and Prevention

Les principaux points

1. L'infection persistante types VPH à potentiel cancérigène élevé provoquant K col.
2. La sensibilité du test VPH est plus élevée que Pap et VIA.
3. 1^{er} test dépistage VPH pour les lésions du col.
4. Orientation clinique uniquement sur ceux qui ont les raisons nécessaires causant K Col
5. Identifier les génotypes (16, 18, 45) VPH pour la stratification du risque.
6. Identifier les causes et non les symptômes.



Merci de votre attention

