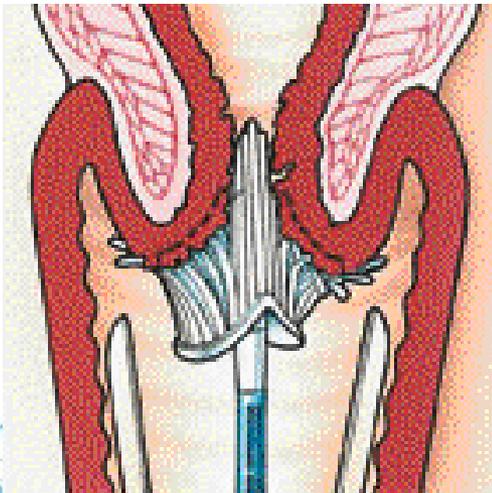


# Multicentric study of HPV testing screening and triage (ESTAMPA)

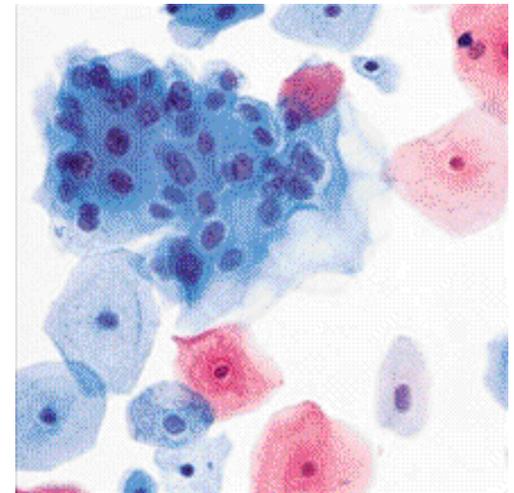
International Agency for Research on Cancer  
Lyon, France

# Cytology-based screening programs have proven ineffective in developing countries



Inter

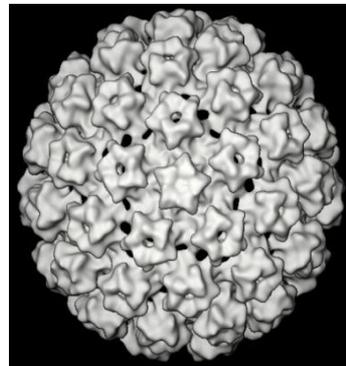
ancer



# Some reasons for limited impact of cervical cancer screening in Latin America

- Poor screening coverage
- Specimen collection and handling
- Inherent limitation of cytology
- Lack of SOPs and quality assurance at the labs
- Loss to follow-up
- Lack of information systems
- Geographic and economic barriers
- Lack of organization of program

Recent knowledge of natural history and biology of HPV infection and cervical cancer have resulted in new primary and secondary prevention methods



# Newly available primary and secondary prevention tools

- HPV vaccination of adolescents
  - Modified schedules <3 doses
- HPV testing of women over 30 years old
  - Self collection
  - CareHPV
- Visual inspection with acetic acid
  - See and treat

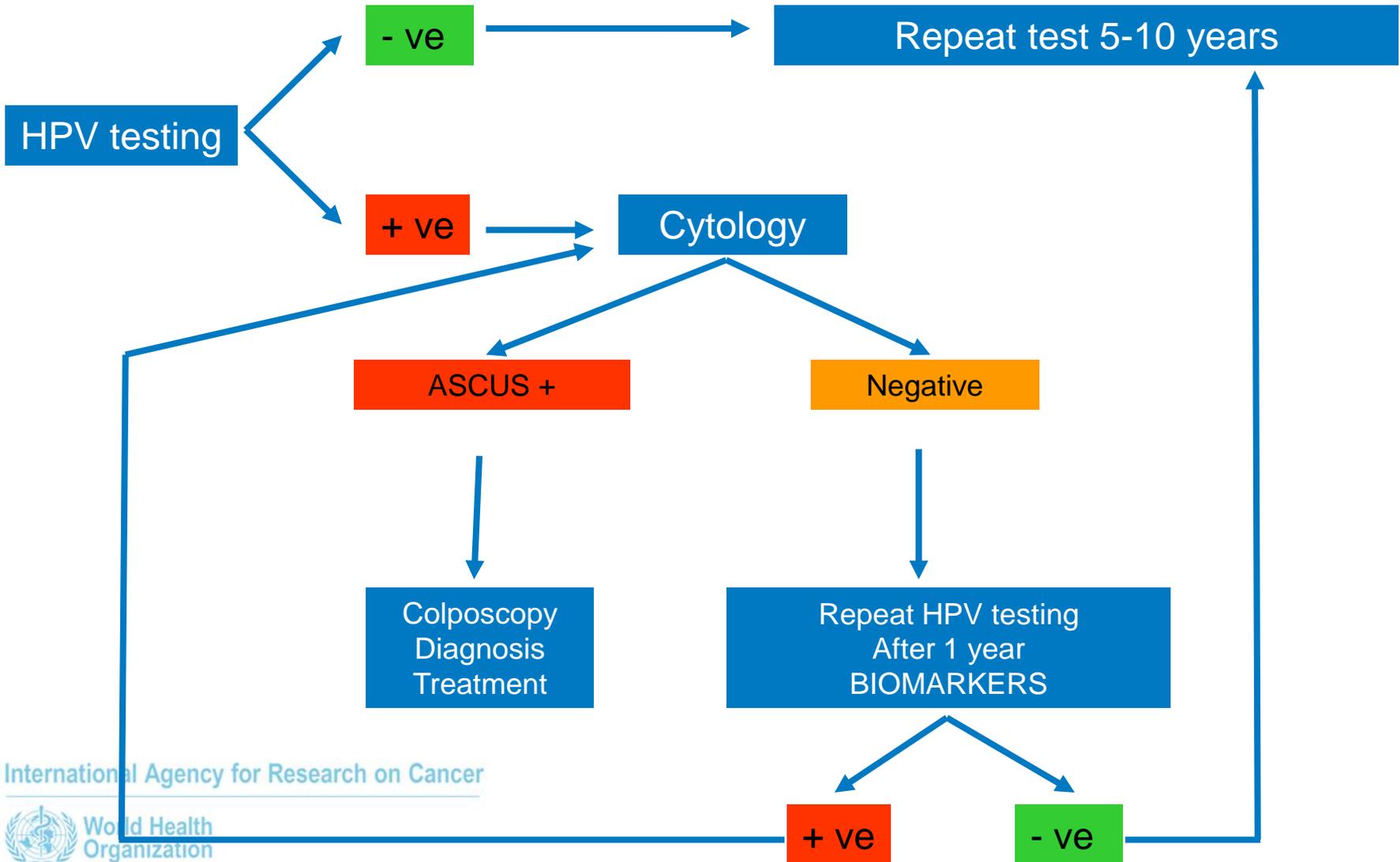
# Characteristics of HPV testing

Advantages	Disadvantages
Objective	Limited specificity
Robust	High cost
Reproducible	Follow up of positives
Accurate	Technical requirements
Effective	Social stigma
Extension of intervals	
Self-collection	
OK for post vaccination	

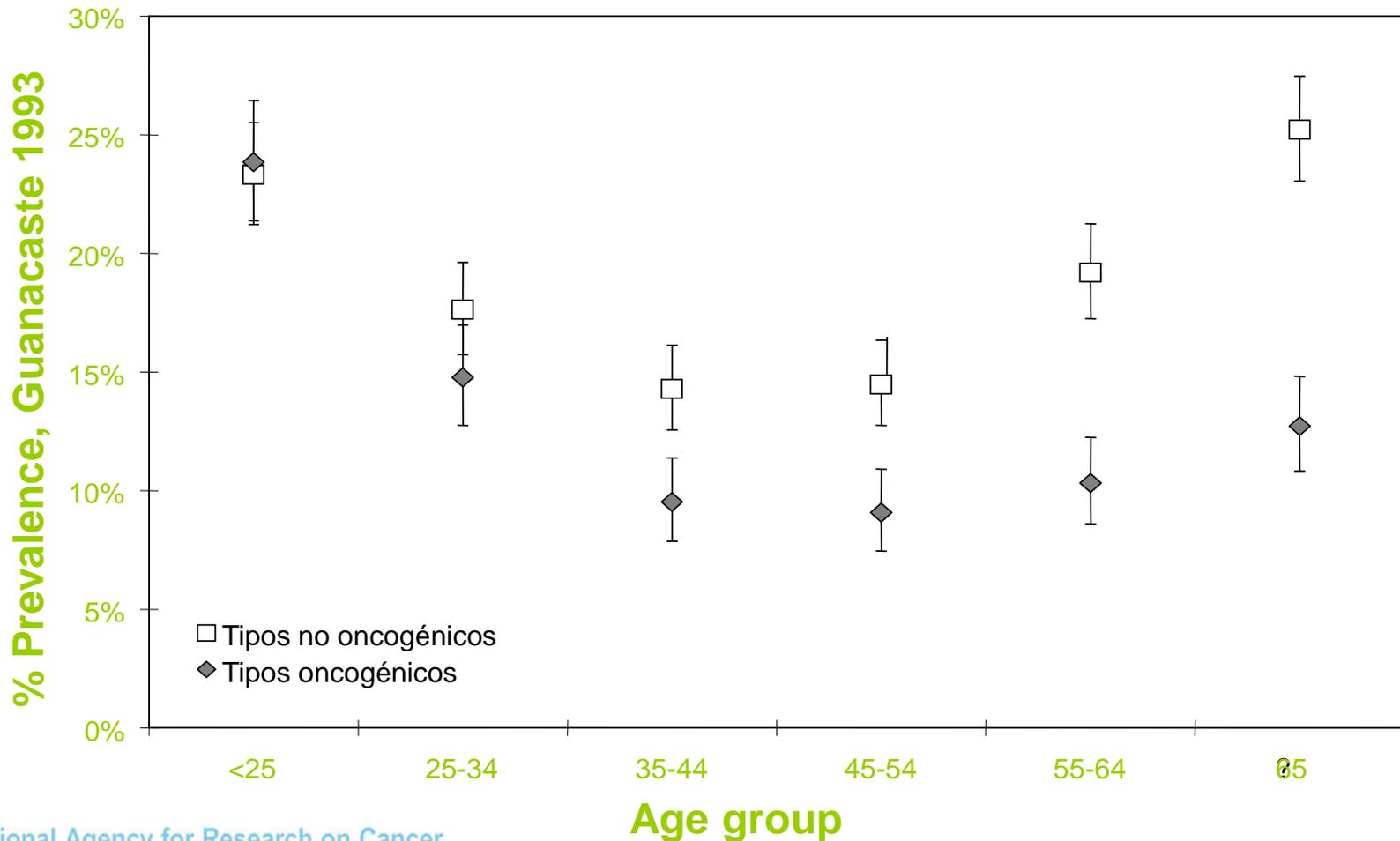
# ESTAMPA Background

- HPV detection will soon become standard for primary screening
- However, viral detection has low positive predictive value
- Many women with HPV do not have a lesion and do not require treatment

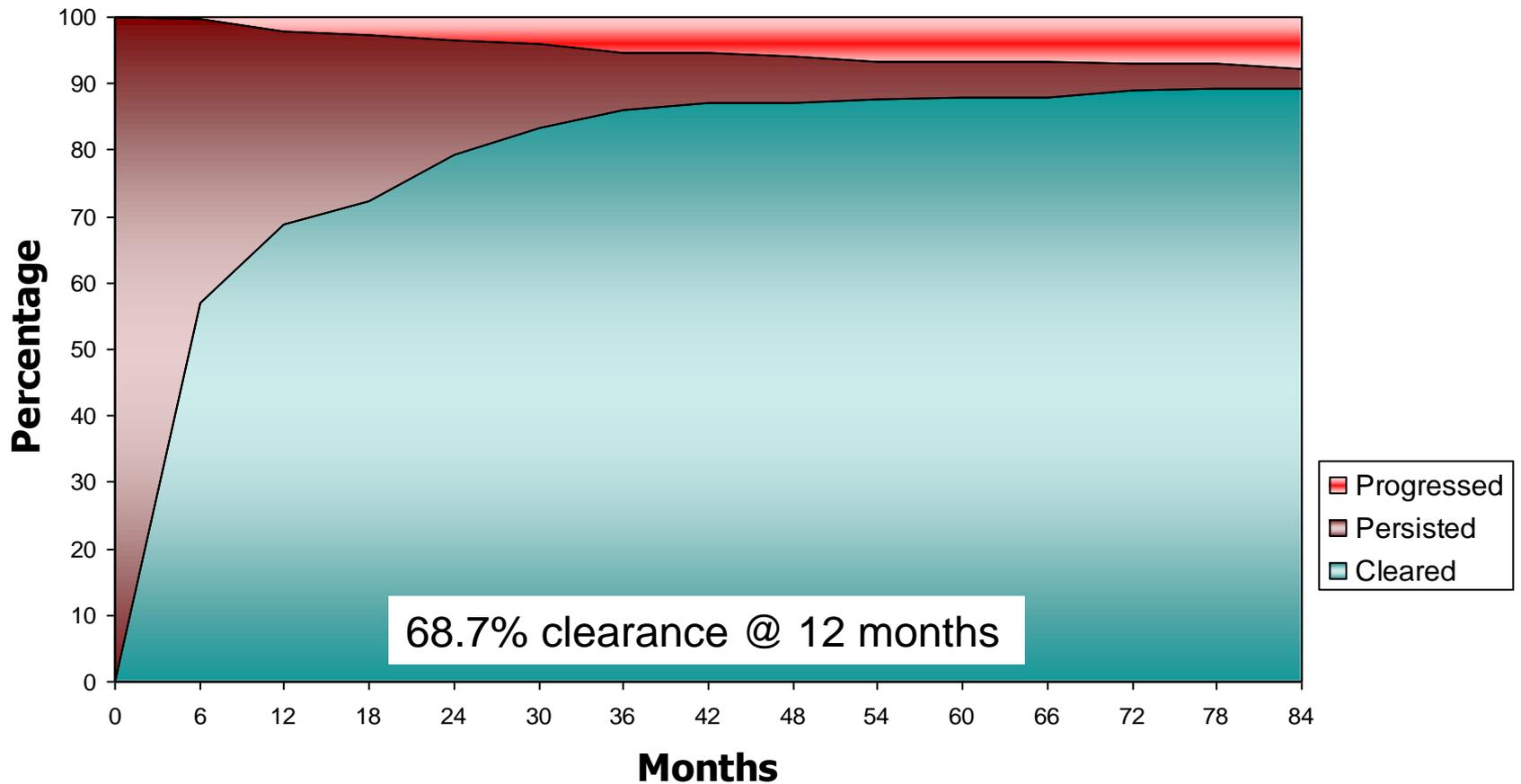
# New algorithms for cervix screening



# HPV testing not recommended before age 30 due to high prevalence



# Prevalent infections, all carcinogenic types



68.7% clearance @ 12 months

# Background

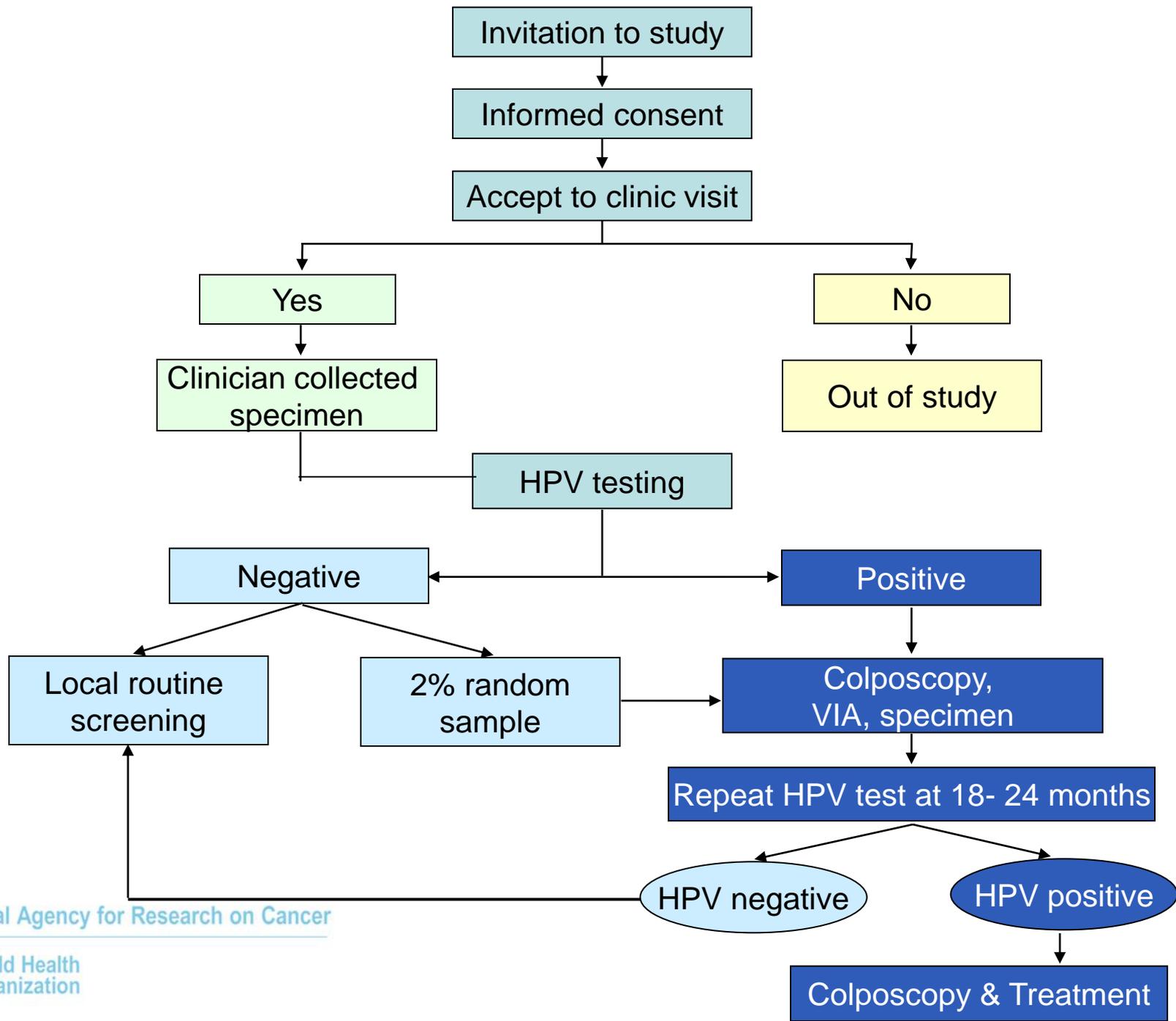
- New methods are required to select women at risk who require evaluation and treatment
- Multiple methods under development but more data required on their performance

# General Objective

- To establish the most effective strategy for HPV screening and triage
- Primary: To estimate performance of different triage techniques alone or in combination to detect CIN3+ among HPV positive women

# Study design

- Multicentric screening study
- 50,000-100,000 women 30-64 years old
- Primary screening with HPV test and collection of specimens for triage
- Referral to colposcopy of all HPV positive women and 2% of negatives, with diagnostic histology as needed
- Second round for HPV positives 18-24 months later



# Primary HPV testing

- Hybrid capture
- COBAS 4800
- Cervista
- Aptima

# Possible triage tests (on all colposcopy patients)

- VIA
- Cytology (liquid vs conventional)
- Aptima (RNA 14 types)
- COBAS/ABBOTT (DNA HPV 16, 18)
- PreTec Proofer (RNA, HPV 16, 18, 31, 33, 45)
- p16 ki67 IHC
- E6 strip (oncoprotein HPV 16, 18, 45)
- Biobank for evaluation of future methods

# Model for organized screening

- Population based
- Conducted within public health services
- Standardized procedures
- Assurance of follow-up
- Training and QA of colposcopy, cytology, pathology
- Performance assessment

# Collection of pathology specimens and review

- Biopsy slides will be collected from biopsies and LEEPs
  - Quality assurance of staining process
- Paraffin blocks for HPV and other studies
  - Quality assurance of histologic preparations
- Local interpretation for clinical management
- Panel review for final endpoint definition

# Evaluation of psychosocial impact of HPV testing

- Personal interviews after notification of results
- Survey of knowledge and attitudes of medical personnel on HPV and cervical cancer
- Determinants in non participation in follow-up procedures
- Survey of knowledge and attitudes of males in the community

# Participating centers and investigators



International Agency for Research on Cancer



WHO, PAHO, RINC