



## I. Digital Learning Series:

The IARC Screening Group has developed a series of 5 complimentary teaching aids for their manuals on "Colposcopy and treatment of cervical intraepithelial neoplasia" and "A practical manual on visual screening for cervical neoplasia". These are intended for reorienting practicing colposcopists and pathologists and for training doctors and nurses in colposcopy and prevention of cervical cancer, particularly in developing countries. These CD-ROMs consist of images obtained from various on-going and completed IARC cervical cancer prevention projects in different countries, which have been extensively reviewed by the project and quality control experts. They will be distributed to all ACCP project sites, medical schools, training centres and cervical cancer screening programmes and to any interested practitioners and students. This will contribute to improving the standards of cervical cancer screening and in facilitating quality control in cancer detection and prevention particularly in developing countries.

### A training course in visual inspection with 5% acetic acid (VIA):

Digital Learning Series  
IARC Screening Group  
A TRAINING COURSE IN VIA

A training course in Visual Inspection with Acetic Acid (VIA)

CD-ROM cover text:  
IARC Screening Group  
http://screening.iarc.fr  
A training course in Visual Inspection with Acetic Acid (VIA)  
Digital Learning Series

Course de formation sur l'Inspection visuelle avec l'Acide Acétique (VIA)

Multimedia and multilingual (Chinese, English, French, Spanish and Portuguese) digital course explaining the way to practice screening for cervical neoplasia with VIA. (negative, positive and invasive cases review).

### A training course in visual inspection with Lugol's iodine (VILI):

Digital Learning Series  
IARC Screening Group  
A TRAINING COURSE IN VILI

A training course in Visual Inspection with Lugol's Iodine solution (VILI)

CD-ROM cover text:  
IARC Screening Group  
http://screening.iarc.fr  
A training course in Visual Inspection with Lugol's Iodine solution (VILI)  
Digital Learning Series

Course de formation sur l'Inspection visuelle avec le Iode de Lugol (VILI)

Multimedia and multilingual (Chinese, English, French, Spanish and Portuguese) digital course explaining the way to practice screening for cervical neoplasia with VILI. (negative, positive and invasive cases review).

### A training course in cryotherapy:

Digital Learning Series  
IARC Screening Group  
A TRAINING COURSE IN CRYOTHERAPY

A training course in Cryotherapy

CD-ROM cover text:  
IARC Screening Group  
http://screening.iarc.fr  
A training course in Cryotherapy  
Digital Learning Series

Course de formation sur la Cryothérapie

Multimedia and multilingual (Chinese, English, French, Spanish and Portuguese) digital course explaining the way to practice a cryotherapy procedure including animations and live movie procedures.

### A training course in Loop Electrosurgical Excision Procedure (LEEP):

Digital Learning Series  
IARC Screening Group  
A TRAINING COURSE IN LEEP

A training course in Loop Electrosurgical Excision Procedure (LEEP)

CD-ROM cover text:  
IARC Screening Group  
http://screening.iarc.fr  
A training course in Loop Electrosurgical Excision Procedure (LEEP)  
Digital Learning Series

Course de formation sur la Résection à l'Anneau Électrochirurgical (RAE)

Multimedia and multilingual (Chinese, English, French, Spanish and Portuguese) digital course explaining the way to practice a LEEP including animations and live movie procedures.

## Histopathology and cytopathology of the uterine cervix – digital atlas

Digital Learning Series  
IARC Screening Group  
A TRAINING COURSE IN HISTOPATHOLOGY AND CYTOPATHOLOGY OF THE UTERINE CERVIX

CD-ROM cover text:  
Histopathology and Cytopathology of the Uterine Cervix  
Digital Learning Series

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WHO/PAHO, Lyon, 2006

HIST. with features suspicious for invasion

HIST. with features suggestive for invasive carcinoma of cervix with the following features: irregular nests, cords and cords of malignant epithelial cells, increased nuclear-to-cytoplasmic ratio, hyperchromatic nuclei and mitotic figures.

CINQ-3. 上皮層下2/3の结构が乱れ、細胞核増大中等級別異型、可见典型斯下-典型性分裂。

Multimedia and multilingual (Chinese, English, French, Spanish and Portuguese) digital atlas for practicing pathologists, cytotechnologists and technicians. It is also suitable for resident pathologists, training in medical schools, and for cytology technicians, particularly in developing countries. This interactive CD-ROM contains over 1200 images, obtained from various on-going and completed IARC cervical cancer screening and prevention projects in different countries, which have been extensively reviewed by project staff, as well as by quality control pathologists and cytopathologists. It will contribute to the improvement of the diagnostic standards for the detection of pre-invasive cervical lesions in low-resource settings and will be an important training tool. We plan to produce more digital training courses on CD-ROM in the future on the following topics:

- Oral clinical digital atlas
- Oral histopathology digital atlas
- Histopathology and cytology of the breast – digital atlas
- Clinical palpation of the breast

## II. IARC Screening Group Website and e-learning:

IARC Screening Group

Website: <http://screening.iarc.fr>

The website is bilingual in English and French, but some teaching material is also available in Spanish, Portuguese, Turkish and Chinese, so it attracts many people worldwide. The following are but a few of our publications available free on the website: "Colposcopy and treatment of cervical intraepithelial neoplasia", "A practical manual on visual screening for cervical neoplasia", "Planning and Implementing Cervical Cancer Prevention and Control Programs: A Manual for Managers"... You will also find factsheets about cancer prevention, summary and key results of our main studies, multimedia presentations about cancer prevention and strategies, institutional movies, a documentary and our publication lists.

Website: <http://screening.iarc.fr>

Important leads to cervical cancer control from Indian studies

R. Sankaranarayanan MD  
Head, Screening Group  
World Health Organization  
International Agency for Research on Cancer,  
Lyon, France  
<http://screening.iarc.fr>

Example of an available free online manual and a multimedia presentation.

## E-learning modules:

Quiz interface showing a question about the number of cases in a category.

More than 1 300 pathologists and cytopathologists recorded their personal profile to access the e-learning part of the website (Quiz & pitfalls in the atlas part): 5 409 quiz sessions have already taken place, the maximum inter-observer diagnosis for one particular slide is 254. 1 268 pitfalls cases have been diagnosed.

## III. Information Systems (ScreenReg):

### What is ScreenReg for?

ScreenReg is an adaptable information system designed for screening programmes (research, randomized studies, pilot or routine projects). This software was created in 2000 to manage our randomized studies in the field in rural India and is now used in 13 countries. Training courses have been held around the world in the use of the program and in data-management principles applied for screening projects. The program data-entry module provides consistency check/search for duplicate records (using a probability matching system). Easy-to-use analysis options include selections, frequency distributions, cross-tables, reports, alert lists and study monitoring modules and exportation are integrated in this product. It can be used in a Windows-based network environment. ScreenReg is provided as a service by the IARC Screening Group to our collaborators and partners.

Digital patient folder main data entry screen and matching system example.

Code	description	Total
1	Negative	2660
2	Positive	223
3	Suspicious of cancer	5

Frequency distribution and cross tables automatic generation.

Education	B1 Education	Married or living	Separated	Widowed	Total
1 None	457	5	2	464	
2 Primary	1477	36	17	1530	
3 Secondary	890	16	7	913	
4 Tertiary (College, University)	4			4	

Analysis reports automatic generation.

### Where has it already been installed?

ScreenReg has been tested and installed in Argentina, Ghana, Guinea, Madagascar, Malawi, Mali, Nigeria, India (multiple sites), Tanzania, Thailand, Turkey, Uganda and Zambia.

## IV. Data management training:



Installation of the ScreenReg software and training of local staff in data management and project monitoring (left: in Roy-Et (Thailand), in April 2003; right: in Masaka (Uganda) in August 2006).