

The e-learning course on
cervical cancer epidemiology and prevention
A customized proposal for a vaccination crisis
in Colombia



ICO
e-oncologia

National Cancer
Institute Bogota

Colombian
faculty & Int.
advisors

Credits and scientific endorsements

- ✓ Scientific editors: Mireia Díaz, Silvia de Sanjosé, Xavier Castellsagué, R. Sankaranarayanan, Laia Bruni, Laia Alemany, Maria Brotons, F. Xavier Bosch
- ✓ Course reviewers: J Cuzick, R. Sankaranarayanan; J Paavonen
- ✓ Participant Institutions:



**International
Federation of
Gynecology and
Obstetrics**



**International
Atomic Energy
Agency**



**Union for
International
Cancer Control**



**International
Agency
for research in
cancer**



**WHO/ICO
Information
Centre on HPV
and Cervical
Cancer**



Elsevier



With the participation of the World Health Organization

Accreditation



Accreditation
Council of
Oncology in
Europe



Spain accreditation



CGCOM



SEAFORMEC
Sistema Español de Acreditación
de la Formación Médica Continuada



Morocco accreditation

ASSOCIATION
LALLA SALMA
DE LUTTE CONTRE
LE CANCER



Local universities and professional associations:

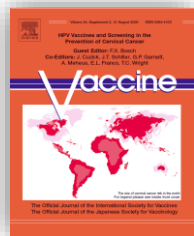
Girona, Salamanca, Ghana, Tanzania, Uganda, Zambia and other.



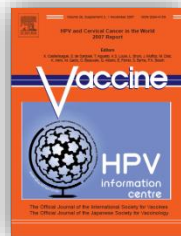
American Medical Association (AMA) 1 credit per hour of activity

Scientific inputs

The course contents have been largely inspired by the international reviews & materials published in the following documents.



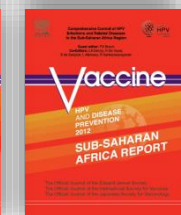
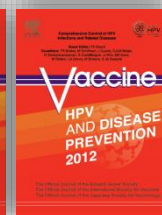
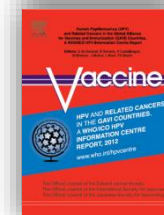
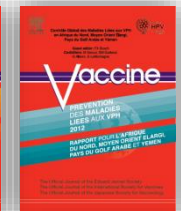
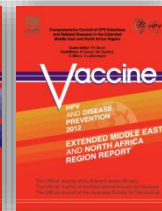
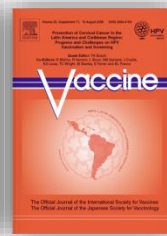
2006



2007



2008



2012 / 2013

More than 500 key experts in the field, serving as editors, authors or reviewers

TARGET PROFESSIONALS

- *Health professionals involved in cervical cancer prevention: specialists in gynaecology, paediatrics, primary care, general practice, microbiology and vaccinology.*
- *Public health professionals, health planners, health program managers, researchers and educators.*
- *Medical students, residents in training and specialized nurses*

Course structure



Additional sources of information

- A library of frequently asked questions (FAQs).
- Access to the ICO HPV Monograph Series (Vaccine 2006, 2007 and 2008 a,b,c and 2012-2013).



- Other major educational resources and documents.



Tutorship

Participant's forum supported by international tutors and e-oncología.



15 hours Core Contents

Module 1. Introduction

Module 2. Natural history of HPV & cancer

Module 3. Burden of HPV infection and HPV-related cancer

Module 4. HPV and other diseases

Module 5. Prevention of cervical cancer:

5.1 HPV vaccines

5.2 Male condom use & circumcision

5.3 Cervical cancer screening options

5.4 Cervical cancer prevention strategies

5.5 Health education & counseling

Module 6. HPV in special populations



Accreditation

Accredited by the "Commission for Continuing Education of Spanish National Health System" with 3,2 credits and by the "Accreditation Council of Oncology in Europe (ACOE)" with 15 credits.

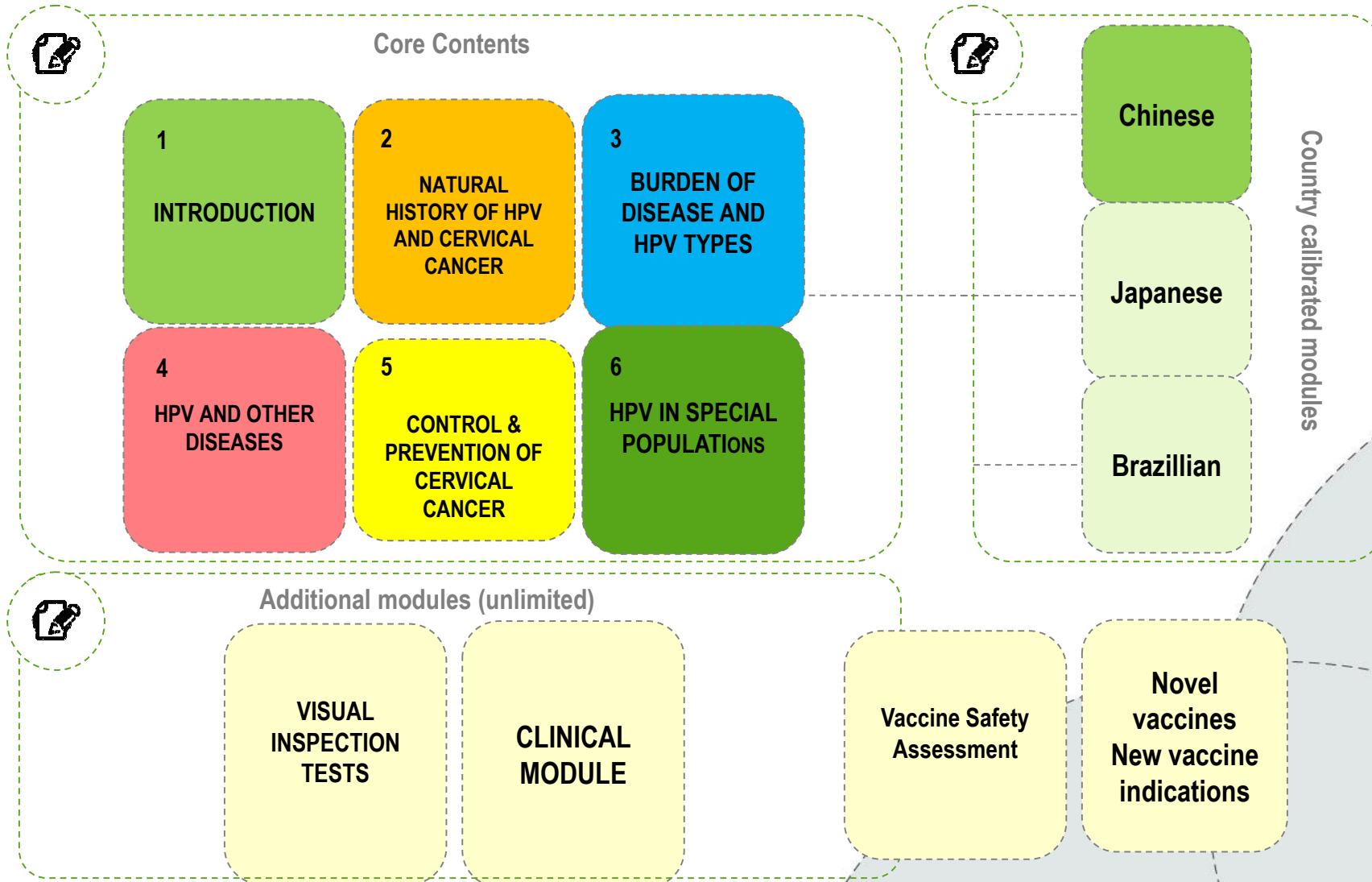
Successful participants will receive a FIGO accreditation and diploma.



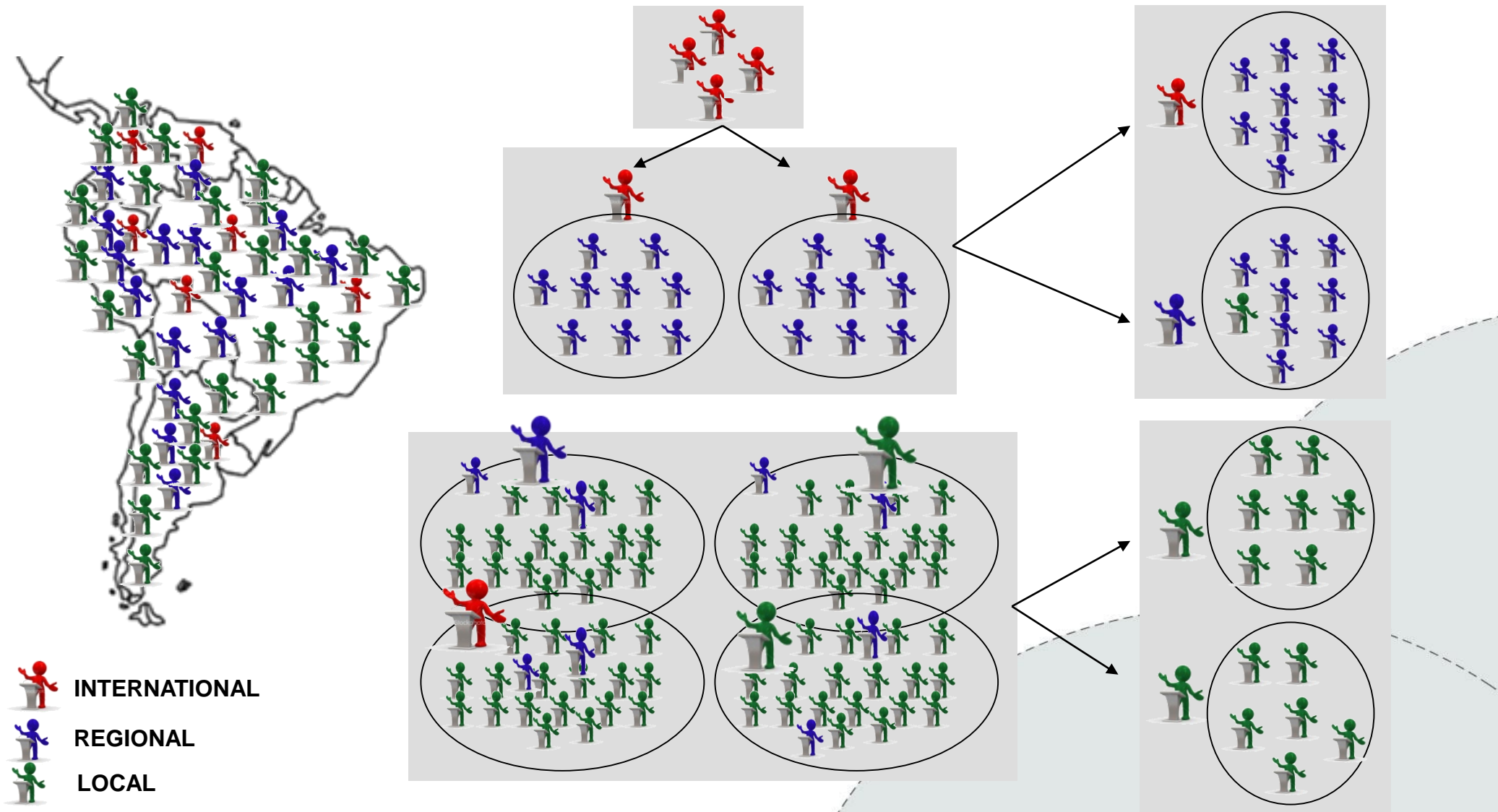
Evaluation

- A 30 multiple-choice questionnaire.
- An evaluation of participation in the virtual forums.

Course specific adaptations and creating new contents



Model deployment – 1: training in cascade; 2: empowering tutors; 3: access free of charge



5 PRIMARY PREVENTION: HPV VACCINES Cervical Cancer Prevention Course e-oncología

5 VACCINS CONTRE LE VPH Cours de prévention du cancer du col de l'utérus e-oncología

5 PREVENÇÃO PRIMÁRIA: VACINAS DE HPV Curso de Prevenção do Câncer de Colo do Útero e-oncología

5 VACUNAS CONTRA EL VPH Curso sobre la prevención del cáncer de cuello uterino e-oncología

5 Первичная профилактика: вакцины против ВПЧ Курс профилактики рака шейки матки e-oncología

5 初级预防：HPV疫苗 Cervical Cancer Prevention Course e-oncología

Protection
Protection mechanism

Proteção e
Mecanismo de

Protección e
Mecanismo de p

Защита и иммуногенность
Механизм за

防卫和免疫原性
防卫机制

- Vaccination
- Through transmission
- High serum
- Higher peak likely to be
- Antibodies

- La vacinação
- Par transmissão
- Des níveis d'anticorpos
- De hautaíndice, k
- Les anti

- A vacinação
- Através do
- Alto nível c
- picos mais a
- Anticorpos

- La vacunación
- Los anticuerpos
- Los niveles a
- El pico más a
- Los anticuerp

- Вакцинация
- Посредством
- Высокие ти
- Более высок
- Антитела не

- 接种疫苗能诱导血清抗体的产生。
- 通过渗透作用疫苗诱导抗体在注射部位表达
- 高水平的血清抗体诱导感染部位更水平的抗体产生。
- 更高的抗体水平，意味着在接种后能获得更长久的保护。
- 抗体能中和病毒并防止其进入细胞。

Представление Ключевые сообщения Основная часть Заключение

简介 关键信息 内容 总结

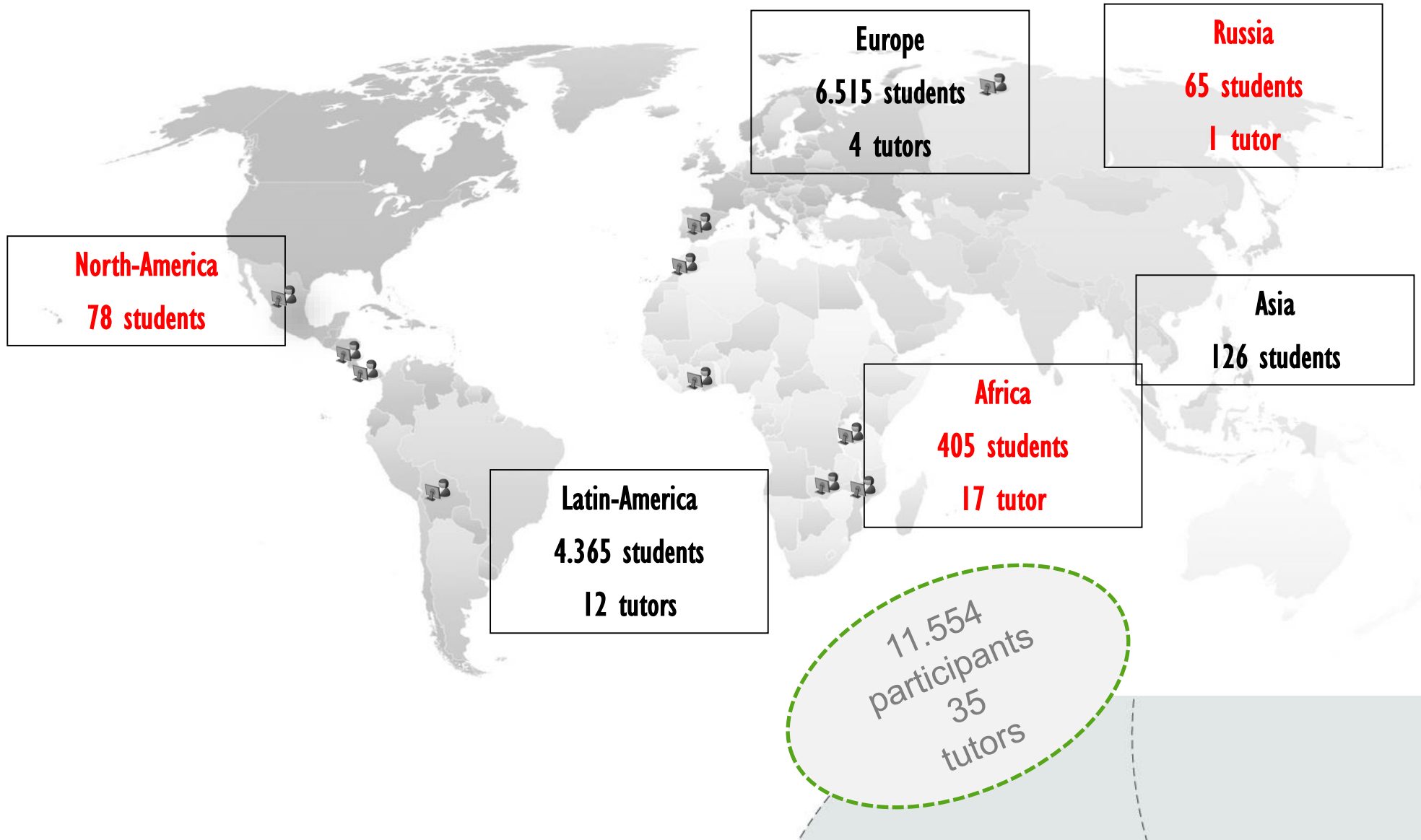
The diagram illustrates the process of HPV infection and the immune response. On the left, a syringe is shown injecting a vaccine into the muscle (肌肉). An arrow points to the right, showing a cross-section of the cervical epithelium (宫颈上皮组织). The diagram labels the basal layer (基底), epithelial layer (上皮组织), and blood vessels (血管). HPV particles are shown entering the epithelium. The response includes the production of neutralizing antibodies (中和抗体) which bind to HPV, preventing them from entering cells and causing cervical cancer (宫颈癌). The diagram also shows the formation of an epithelial tear (上皮组织撕裂).

肌肉 宫颈上皮组织 血管 上皮组织撕裂 基底 中和抗体 宫颈癌 HPV

2/3

Cervical Cancer Prevention Course Summary

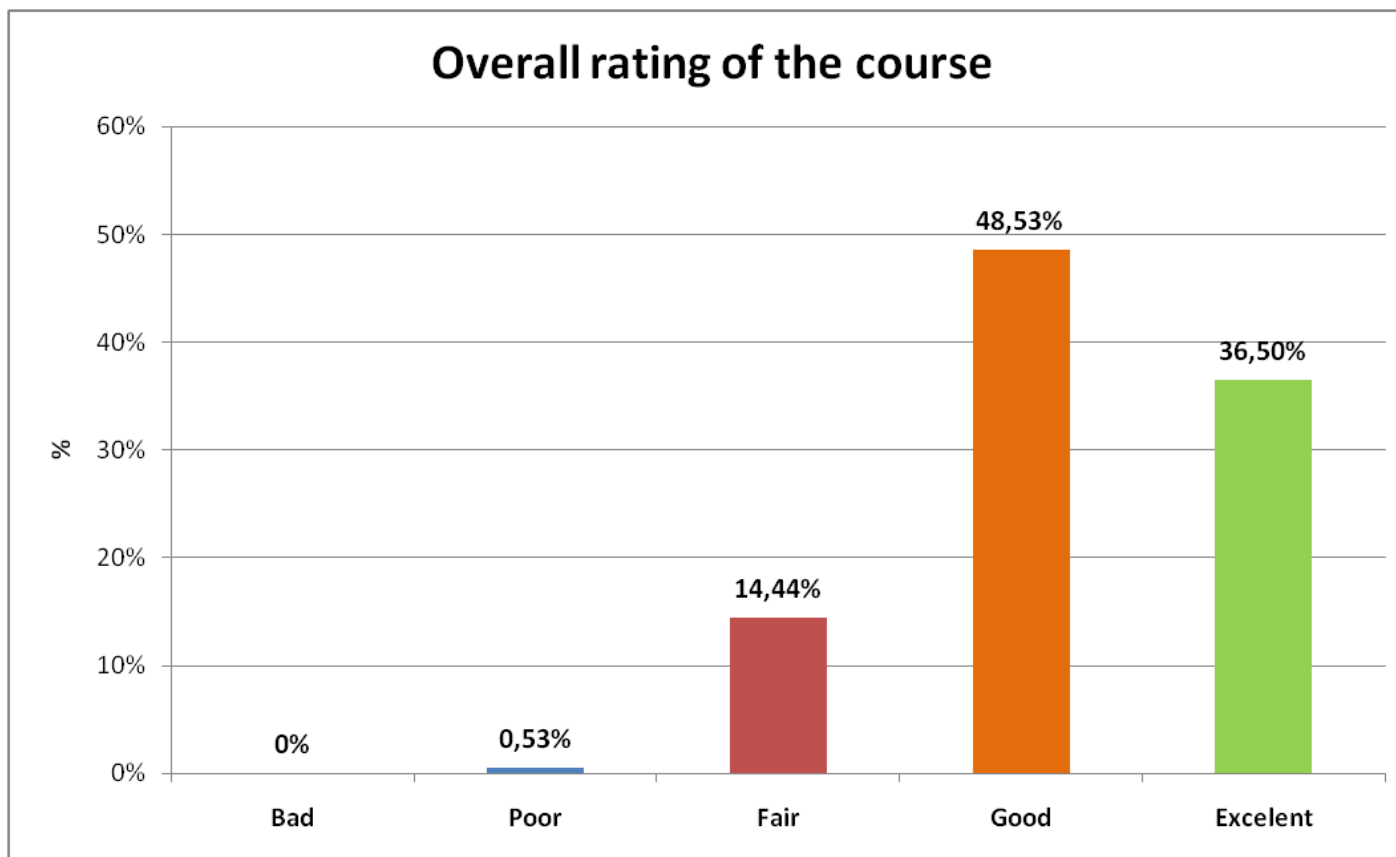
2011 - 2014



Outcome January 2015

Language	Participants	% success
SPANISH	10681	70
ENGLISH	557	60
FRENCH	268	62
RUSSIAN	48	69
TOTAL	11554	69

Satisfaction survey results II



Financial supports and sponsorship of the course

Bill & Melinda Gates Fund. Grant to support the WHO / ICO HPV information centre & the ICO Monograph program.



BILL & MELINDA
GATES foundation

International Educational Program in Oncology of the ICO (Barcelona, Spain).



Generalitat de Catalunya
Departament de Salut



IAEA contract to e-oncologia to pilot the course of VUCCnet in Tanzania, Zambia, Ghana & Nigeria. Sub-project in partnership with Universities in Egypt and South Africa



Building partnerships to fight the cancer epidemic

IS GLOBAL (Barcelona, Spain) through a cooperation agreement financed by "La Caixa" Foundation.

ISGlobal



Ministry of Health in collaboration with the Lalla Salma Association to Fight against Cancer in the National Cancer Plan



Unrestricted educational grant from Glaxo Smith Klein (GSK).



Unrestricted educational grant from Merck Sharp & Dohme Corporation.



COI declaration

- The contents and structure of the course has been independently prepared by scientists at ICO and IARC.
- The materials have peer reviewed and approved by scientists and relevant bodies from all participant institutions.
- None of the sources of funding has had any participation directly or indirectly in the preparation of the materials, selection of the references or other.

Contact points : www.e-oncologia.org
E-oncologia@iconcologia.net

Deploying the e learning course to support the vaccination program in Colombia



- *MoH offers a e-scientific discussion to all registered professional health workers in the country. Interactive, open access, locally CME accredited for a period of one / two months.*
- Select the module on *vaccine safety assessment* & update the HPV vaccine safety reports (3-4 e-working hours)
- Calibrate materials to the *Colombian epidemiological and clinical data* (from the HPV Info Centre and Monographs)
- Discuss the Colombian experience in Carmen de Bolivar
- Discuss the vaccination program in Colombia
- Create an *independent local faculty* & KOL interviews
- Consider a version for media and general public

Support of the program

- National Cancer Institute in Colombia
- E-oncologia
- HPV board meeting?
- IPVs?

