



EUROPEAN
FEDERATION
FOR COLPOSCOPY

5th Satellite Meeting and Training the Trainers

Hotel Pullman **Brussels** centre Midi

15th December 2017

Training the Trainers

16th December 2017

5th EFC Satellite Meeting





EUROPEAN
FEDERATION
FOR COLPOSCOPY

Training the Trainers

Dr Albert Singer



EFC Satellite Meeting and Training the Trainers, 15-16 December 2017, Brussels

E LEARNING AND DISTANCED LEARNING /SUPERVISION

PROFESSOR ALBERT SINGER
UNIVERSITY OF LONDON ,LONDON UK

HOW DO WE TEACH COLPOSCOPY

- APPRENTICE SYSTEM (WITH TUTORS AND COACHES)

- **COURSES**

Basic

Advanced

- **E LEARNING COURSES ON LINE**

+

- **MONOCULAR TECHNOLOGY**

Local / Distant



- ACCREDITATION SYSTEM BY BSCCP (1990s)

KNOWLEDGE | COMPETENCY | ASSESSMENT

COLPOSCOPY TEACHING COURSES (LONDON UK)

Basic and Advanced since 1981 (114 COURSES)



HAVE WE SUCCEEDED?

- YES?
- 33 YEARS (APPROX 3000 STUDENTS WORLDWIDE)
- 114 COURSES (JUNE. 2015)
- CANDIDATES' EVALUATION 8.7/10

**NO LONG TERM DISTANT FOLLOW UP
OR SUPERVISION**

THE **FUTURE** OF COLPOSCOPY TEACHING

1 PROBLEMS

2 HOW DO WE OVERCOME THESE
PROBLEMS

THE **FUTURE** OF COLPOSCOPY TEACHING

• PROBLEMS

Increase in world Cervix Cancer rates

Not enough trained teachers/coaches

Accreditation difficult /unrealistic

HPV screening means more colposcopy

HOW DO WE OVERCOME THESE PROBLEM

- 1 Training more experienced teachers/coaches (difficult and unrealistic in many centres)
- 2 E LEARNING COURSES ON LINE**
- 3 Mobile colposcopy (Local Distant)

WHY E LEARNING COURSES

- REACHING CENTRES WHERE NO TEACHING /TRAINING EXIST
- WITH HPV TESTING AN INCREASED NEED TO EXAMINE THE CERVIX (COLPOSCOPY)
- WITH MODERN TECHNIQUES CAN OFFER HIGH QUALITY TEACHING WHICH CAN BE MULTILINGUAL

WHAT ARE E LEARNING COURSES

E-LEARNING COURSES

Developed from the experience of face to face courses and using latest technologies and teaching aids



Module 3: Abnormal cervix - part 2

Section 1

 EXIT

Introduction

4. Techniques of Examination

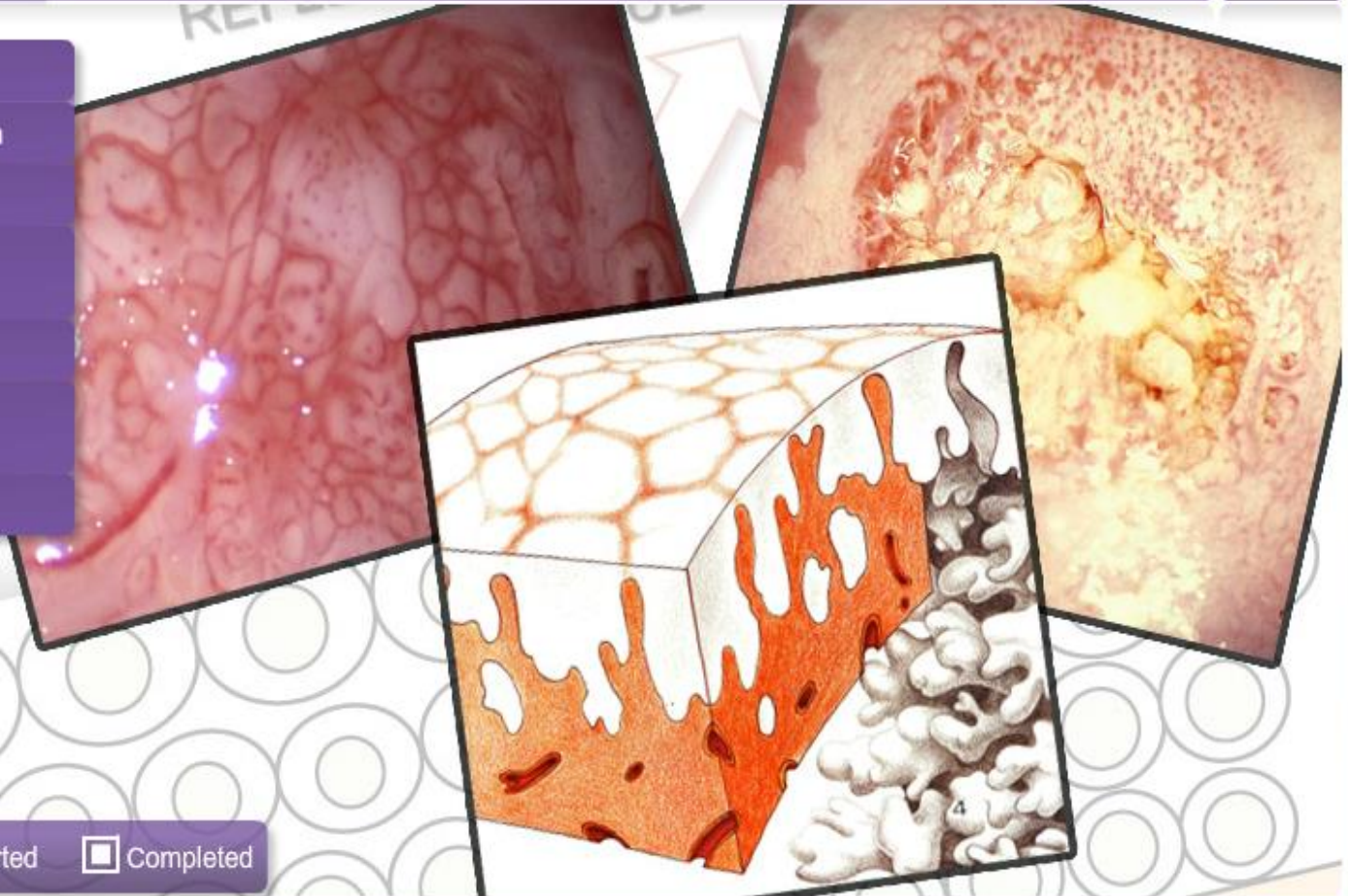
5. The Three Types of TZ

6. Premalignant and Early Invasive Cancer

Cervical Glandular Disease

Management of Cervical Neoplasia

Summary



Key: Not started Started Completed

 ZOOM

EDIT

Colposcopy Course

Foundation E-learning course:

•

Normal Cervix

Detection of cervical precancer

- Pathology of cervical precancer
- Screening for cervical neoplasia :cytology and introduction to HPV testing

Colposcopy of abnormal cervical epithelium

- a Diagnosis
- b Methods of detection

HPV: Causation of cervical neoplasia

- Biology
- Clinical role in diagnosis
- Vaccination

Treatment: Why, how and when and management algorithms

Interactive session: To discuss diagnosis and treatment

PROGRESS OF E LEARNING COURSES

(COLPOSCOPYCOURSES.COM)



- The 10 hour on line course in 3 1/2 years has .400 users in 39 countries reaching centres where no teaching or training exists with enthusiastic and positive feedback .It is now part of a number of teaching programs being used prior to and in conjunction with practical colposcopy training .It has BSCCP approval in relation to accreditation

HOW DO WE OVERCOME THE PROBLEM OF
DISTANCED LEARNING / SUPERVISION
(QUALITY CONTROL)

- **E LEARNING COURSES ON LINE**

+

MOBILE COLPOSCOPY

Mobile Colposcopy

Visual examination by fixed colposcopy is expensive, bulky and requires hard-to-use equipment

Mobile colposcopes are affordable and easy-to use.



450 grams Gynocular
from Gynius (Sweden)
CEASED TRADING 2017



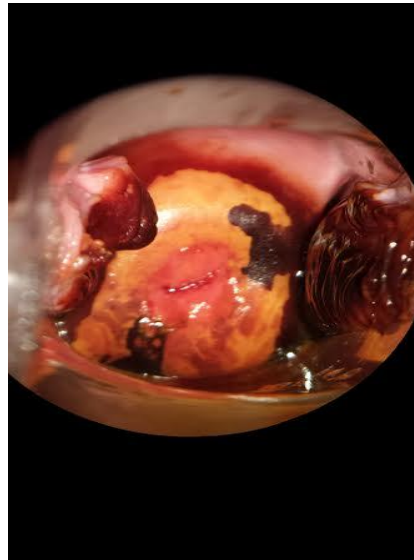
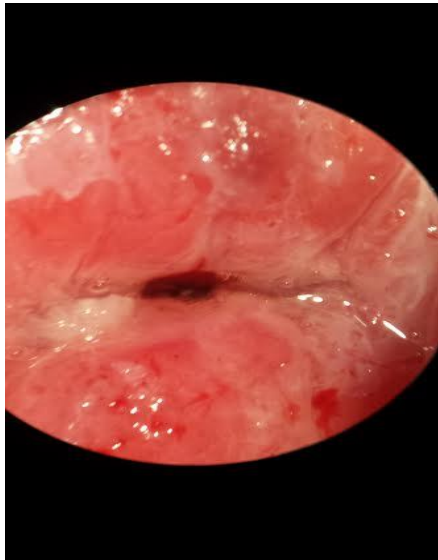
Mobile
colposcope
(400 grams)
Mobile ODT



Fixed
colposcope
(7.5Kg)

Mobile Colposcopy

- Easy flexible and mobile stand
- Excellent optics and documentation system
- Light weight carrying case making it ideal for screening and documentation in remote areas



Examples of high quality usage:

*

Agreement between mobile and fixed colposcope
Kappa value 0.998 and p-value < 0.001

Agreement between doctors and nurses using mobile
colposcopy

“Colposcopy Telemedicine: Live Swede score versus
Static Swede score and accuracy in detecting
CIN2+”

**Conclusions: Close correlation of live colposcopic expert
examination and expert static evaluators**

Authors: Taghavi, Strander, Singer, Shemer

PRESENTED AT IFCCP MEETING, ORLANDO MARCH 2017

Mobile colposcopy: combining hardware and software to facilitate complete care



Mobile App



Colposcope



Online services for quality assurance

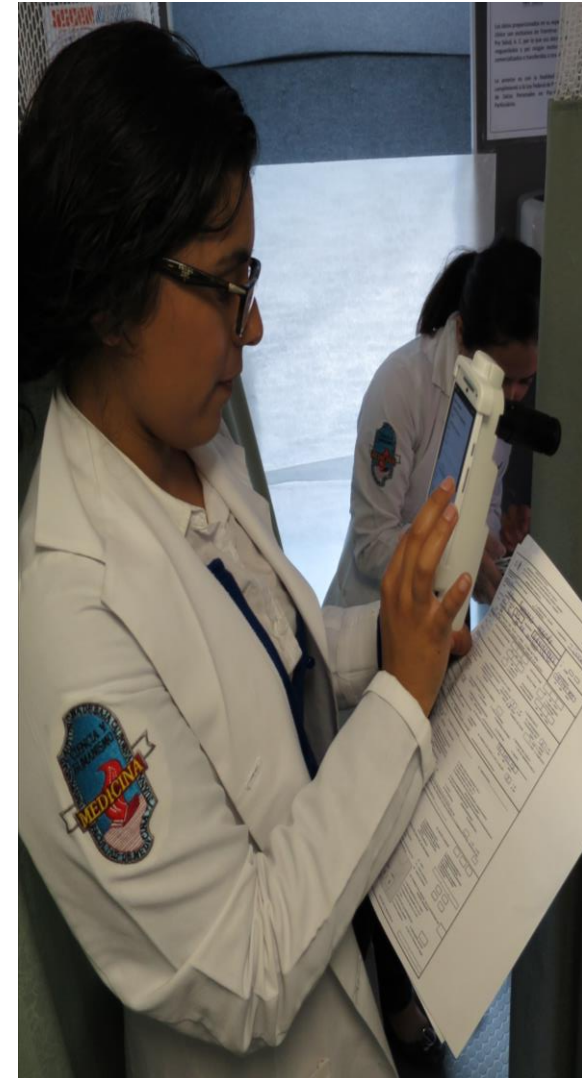


Data storage & analytics

App on Mobile Colposcope

An easy-to-use APP installed on the included smartphone enables:

- Video and image capture with image annotations
- Documentation of clinical decision making
- Integrated real-time remote consultation
- Secure storage of patient data



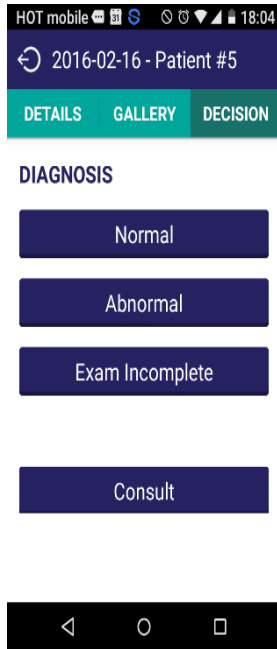
Mobile colposcopy allows for documentation of the findings with capture of cervical images: **ideal for teaching**



DISTANCED LEARNING /SUPERVISION

Real-time consultation : the basis of quality control

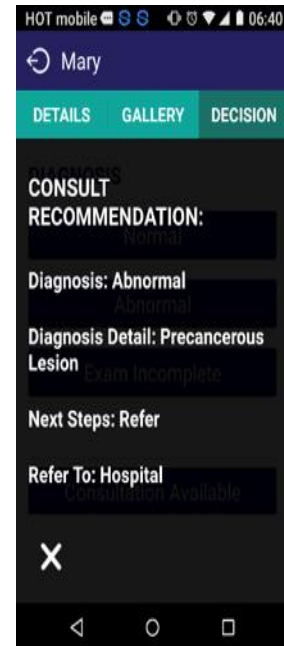
Consult in real time or asynchronously with remote experts for decision support:



Providers can request consultation from within the application



The expert will be notified of providers' request

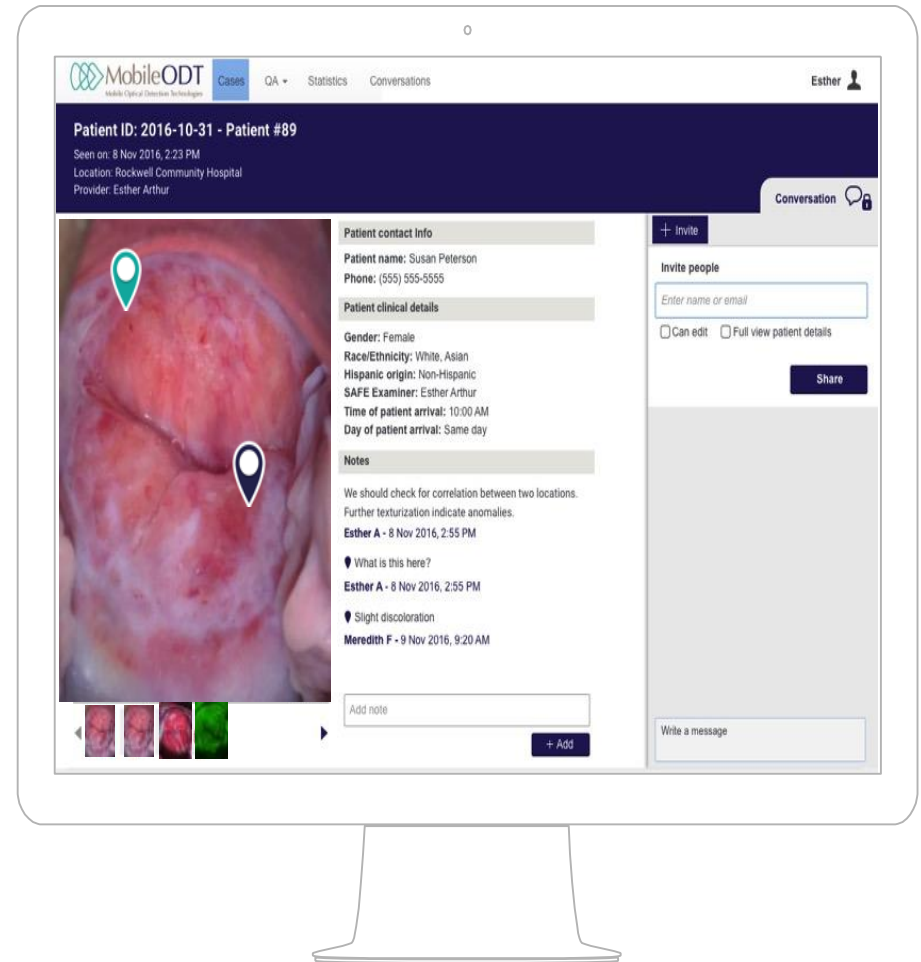


The recommended diagnosis is sent back to the provider

Secure case sharing & peer review

Easily shared patient cases within or outside your organization for peer-reviews, consultation and training

- Multiple reviewers can **collaborate on case review**
- Cases and discussions **remain confidential**, through tracked log-in of credentialed users



PROPOSED SHANGHAI COLPOSCOPY TRAINING PROGRAM

(PROF.SUI LONG (SHANGHAI): PROF.ALBERT SINGER (LONDON))

- **1 E LEARNING COURSE (MANDARIN)** GIVEN TO 6 CENTRES IN SHANGHAI AREA FOR 8 WEEKS
- 2 DOCTORS COME TO SHANGHAI FOR HALF DAY TO COLLECT AND GET INSTRUCTED IN **MOBILE COLPOSCOPE** HANDLING
- 3 AFTER 2 MONTHS OF SUPERVISED COLPOSCOPY (DAILY /WEEKLY)
- RETURN TO SHANGHAI FOR 3 DAYS OF EVALUATION ON PATIENTS
- 4 SUBMITTED TO OSCI TYPE EXAM (BSCCP) AT END OF EVALUATION PERIOD AND IF SUCCESSFUL GIVEN TRAINERS CERTIFICATE

SUMMARY

High quality colposcopy is possible in the DIAGNOSIS and TEACHING using mobile colposcopy

- No significant differences between colposcopy trained VIA nurses or doctors using fixed or mobile colposcopies in detecting high grade cervical lesions in high or low resource setting.
- In low resource settings nurse-colposcopist can be employed with instant peer review.
- High quality **supervised** colposcopy can be TAUGHT and administered under minimal infrastructural requirement and at limited economical setting with mobile colposcopy

