

## **WHOP Mammographers Training Course in collaboration with Mubarak Kohl Institute for Nurses, Cairo University** *A six days course (30 hours)*

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### **Overview:**

This course presents general information about gross breast anatomy and pathology, breast cancer risk factors, clinical signs, diagnosis, early detection and treatment, with focus on technical consideration of mammography technique, proper positioning, standard views, radiation exposure and protection.

### **Aim and Target Audience Description:**

This course is designed for auxiliary staff that assist in mammographic procedures at WHOP mammography units whether certified mammography technicians or mammography-practicing non-technicians to understand technical aspects of mammographic imaging & upgrade their KAP skills (Knowledge, attitude and practice).

### **Educational Objectives:**

Upon completion of this course, participants will be able to:

- Comprehend the anatomy of the breast (gross and radiological).
- Know the radiobiological effect of mammographic exposure & how to reduce it.
- Understand about the mammography machines; (digital and analogue) and physics in brief.
- Learn about mammography indications, technique, positioning, pearls & pitfalls.
- Skillfully implement proper positioning from international guidelines.
- Realize consequences of mal positioned cases.
- Recognize breast pathology & BIRADS® lexicon.
- Identify Breast cancer high risk groups, clinical signs and early detection.
- Learn briefly about staging of breast cancer & therapeutic procedures.
- Become acquainted with application of Quality standards, patient's safety and risk management.
- Commencing Communication Skills to upgrade Nurses' Image.

### **Basic lectures**

1. Understand breast anatomy, pathology, breast cancer risk factors, clinical signs, staging and treatment.
2. Learn about mammography screening, indications, breast cancer early detection & breast ultrasound.
3. Know the radiobiological effect of mammographic exposure & how to reduce it.
4. Digital versus Analogue mammography; the machines and physics in brief.
5. Breast cancer awareness, high risk groups, warning signs and advantages of early detection.
6. Proper positioning pearls and pitfalls.
7. How to implement proper positioning techniques.
8. BIRADS® lexicon classification

**Informal discussions:**

- 1) The increasing awareness of breast cancer with introduction to women's health outreach program official website [www.whop.gov.eg](http://www.whop.gov.eg), and emphasizing the advantages of early detection, with macromedia flash course display from [www.komen.org](http://www.komen.org)
- 2) Orientation about film viewing options on the digital work station with display of mal-positioned cases, and **Quiz cases** on adequate mammographic positioning technique and criteria for proper imaging of the standard views.
- 3) BIRADS® practical application with display of cases on the digital work station and **Quiz cases** for findings on the mammogram including asymmetric densities, masses and calcifications to ensure that they are being imaged in all views.

**Public health lectures:**

1. Applied Quality and ethics standards for nurses
2. Applied communication skills to upgrade nurses' image

**Teaching staff**

**Radiology Professors and lecturers from Kasr El Einy Radiology department and WHOP  
Public health Professors from Mubarak Kohl Institute for Nurses**

**Practical course:**

Hands-on positioning and practical training at Women's Imaging unit; Kasr El Eini, faculty of Medicine, Radiology department, and one of the largest private centers and diagnostic mammography unit at Cairo Radiology Center (Cairo Scan)

- To enhance the difference between screening and diagnostic mammography
- Implement additional mammographic views and special positioning techniques
- Highlight the value of diagnostic work up focusing on history taking, clinical examination, and breast ultrasonography.

**Post-practical activities:**

1. Interactive audio/video display that provides 2.5 CAT A CME credits © GE
  - I. How to perform a perfect mammography by Prof. Dr. Volker Barth, MTAE
  - II. Troubleshooting positioning from routine screening to diagnostic views by Rita W. Heilein, ASRT
2. Training sessions with an applicator specialist will be arranged through GE shortly after finishing the basic course and practical sessions.

**Technical sessions** presented by GE and Millen-Med

**Hand-outs:**

1. Print-outs from lectures' presentations
2. Guidelines for mammographic standard positioning technique from UREF (Arabic), and from Canadian guideline (Eng).
3. Detailed steps to Breast Self Examination.
4. Applied terminology.

## Coarse certification

**This course is intended to be “on-job training” and doesn’t obviate the need for qualification, however, upon completion of this course, trainees will receive a certification that allows them to practice mammographic techniques as assistant mammographers**

**N.B.** Payment issues for external mammographers as well as hotel arrangements for non-Egyptians are to be arranged through Breg. Ahmed Mansour, Financial Manager and Mr. Mohsen abou Zeid, Office Manager after consulting Dr. Sarah Fawzy; Project executive assistant

### **Fees for 30 hrs course**

**For Egyptian mammographers and technologists; 700 LE**

**For non-Egyptian mammographers and technologists; 500 US \$**

WHOP General Manager, Prof. Dorria Salem

Course director, Prof. Dr. Soha Talaat

Course coordinator, Dr. Iman Adel