

# Advanced Clinical Breast Exam Training

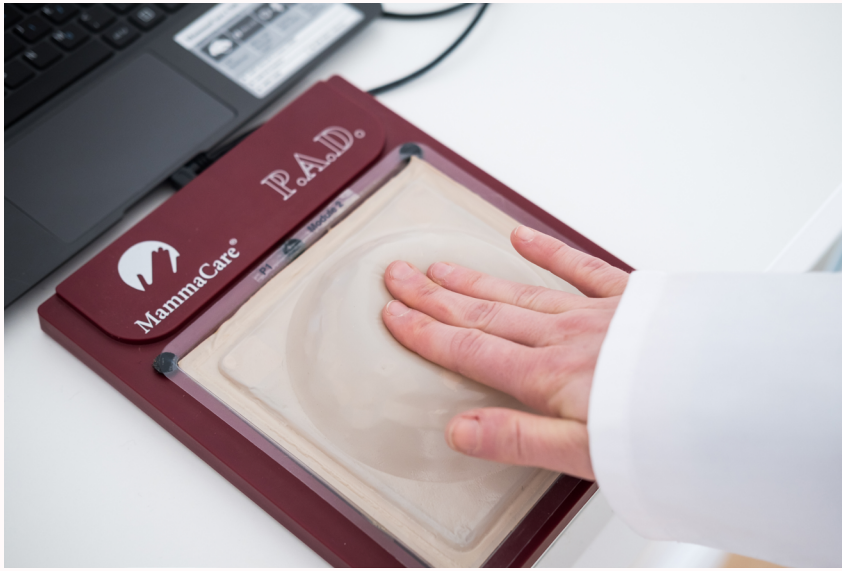
The MammaCare CBE Simulator is an advanced, web-based clinical training platform that teaches, measures, and verifies the user's breast exam skills. Within 2-3 hours of instruction and palpation practice, the system quantifies performance, corrects examination deficiencies, and reports breast exam competencies to supervisors. To complete the training, users are required to reliably detect all suspicious masses (0.3cm - 1.0cm) without increasing false positives.



## Breast Exam Learning Objectives

- » Learn common benign and malignant breast conditions that can be seen during a visual inspection.
- » Perform thorough clavicular and axillary examinations to identify enlarged lymph nodes.
- » Position patient to evenly distribute breast tissue over chest wall.
- » Module 1 Breast Model Exam: Discriminate between normal breast nodularity and suspicious lesions.
- » Module 2 Breast Model Exam: Detect all of the lesions (0.7cm – 1cm) in the breast model and palpate at least 90% of the breast tissue.
- » Module 3: Detect all of the lesions (0.5cm – 0.7cm) in the breast model and palpate at least 90% of the breast tissue with  $\leq 2$  false positives reported.
- » Module 4: Detect all of the lesions (0.3cm – 0.7cm) in the breast model and palpate at least 90% of the breast tissue with  $\leq 1$  false positives reported.

# Training Components



MammaCare's tactually-accurate breast models contain polymeric replicas of excised lesions. Each breast model presents a unique configuration of tumors and breast tissue density.

Tumor characteristics:

- » Size: 0.3cm - 1 cm
- » Firmness: 20dur - 60dur
- » Movability: Fixed, Movable
- » Depth: Superficial, Medium, Chest Wall

MammaCare clinical breast examination training curriculum is presented via:

- » Instructional videos
- » Didactic lessons
- » Quizzes and questionnaires
- » Hands-on tactile training modules

Video demonstration available at [learn.mammacare.org](https://learn.mammacare.org).

**Current Assignment**

**Palpation Training: Module 1**

Instructions: Please have the items below. Connect the P.A.D. to your computer.

Approximate time: 17 Minutes

P.A.D.    P0 - Module 1    USB-C Cable    Headphones (optional)

**The P.A.D. is Connected.**

**START**

**Transfer Skill to Patients**

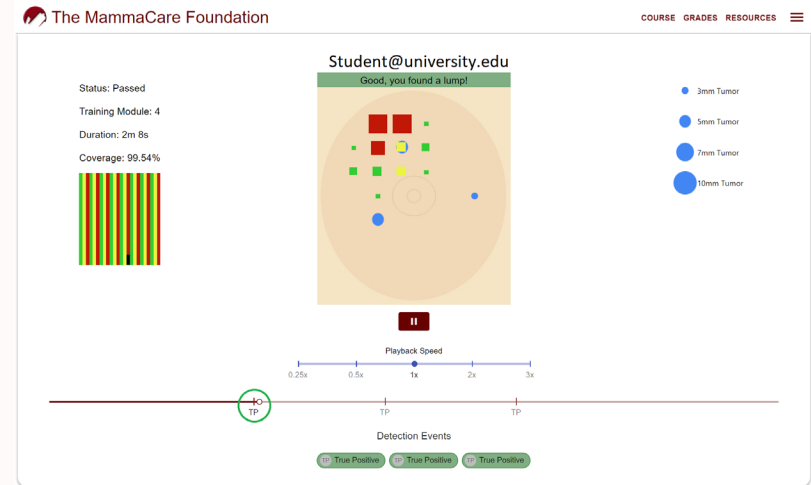
2:28 / 8:00

# Measure Core Breast Exam Competencies

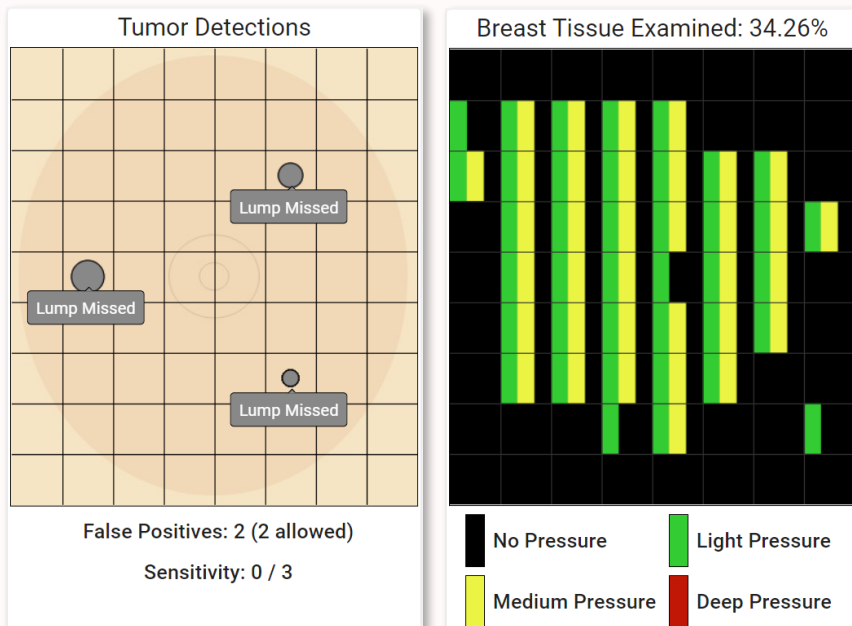
Each breast exam is stored in the cloud and available to the trainee and supervisors for review as a snapshot and as a real-time playback, and documents:

- » Sensitivity: True positive tumor detections
- » Specificity: False positive tumor detections
- » Thoroughness: Breast tissue coverage

## Real-time Playback



## Pre-training Exam



## Final Exam

