



eMEDICAL
ACADEMY

Case Study

Ben Gurion
University of the Negev
BEER SHEVA, ISRAEL



Case Study

Ben-Gurion University of the Negev is a public research university in Beer Sheva, Israel. The university has five campuses: the Marcus Family Campus, Beer Sheva; the David Bergmann Campus, Beer Sheva; the David Tuviyahu Campus, Beer Sheva; the Sede Boqer Campus, and Eilat Campus.

eMedical Academy courses were integrated into the medical school training platform to help teach FoCUS exam to a large cohort of medical students. Transitioning from instructor-lead to independent online learning using eMedical Academy courses shifted the learning burden from senior physicians to trainees, and focused instructor time to increase trainee proficiency.



**Organizational
Challenges**



**eMedical
Academy Course
Implementation**



**Return on
Investment**



Path to Success

Challenges

- Significant institutional resources in a constrained setting were required to train medical students on FoCUS Exam.
- Training a large cohort of medical students year after year presented a scalability issue.
- Quality of instruction varied significantly based on trainer availability and degree of expertise.
- Trainee FoCUS practice was limited to availability of a qualified clinician and to clinic hours.



Implementation



Train the trainer

Senior medical students used eMedical academy courses including eViews, eClips, eTopics and eCases to develop expertise in focus.



Foundation Using eViews

Trainees used eViews Course to learn FoCUS anatomy recognition, image acquisition and trouble shooting tips.



Hands-on Practice

Trainees practice image acquisition using a hand-held US device guided by the eViews modules in real time, at the patient's bed-side.



Building Expertise Using eClips

eClips which are videos of actual patients, are used to develop recognition of normal vs pathological conditions.



Testing Knowledge

Hands-on testing on live models to image acquisition skill.





Return on Investment

How working with eMedical Academy positively impacted our organization.

✓ Long-Term Access to Training Materials Lead to Deep Engraining of the Topic

In contrast to the traditional FoCUS training via a conference-based lecture, followed by a few hours of hands-on practice, having long-term access to the online courses facilitated a deeper embedding of the content. Reference to video images and trouble-shooting strategies at the patients' bedside improve image acquisition skills.





Results



How working with eMedical Academy positively impacted our organization.



Online learning made high quality education accessible to a large group of students.

Embedding eMedical Academy online courses as a required integral part of medical students' training, had multiple advantages:

1. Shifting the foundational learning from the instructor to the student
2. Establishing a strong and consistent academic baseline of the FoCUS exam across a larger cohort of students
3. Focusing instructor time to hands on optimization of image acquisition



Access to the eMedical Academy course improved FoCUS image acquisition.

A study comparing FoCUS image acquisition among 120 medical students with and without access to eMedical Academy eViews course showed statistically significant improvement in FoCUS acquisition and speed among the group supported by the eViews course.



Path to Success

Integrating eMedical Academy online courses into the organization's training plan ensures a consistent and robust knowledge base. Self-directed online learning is key to a flexible learning environment for the trainee and reduced time commitment on the part of the trainer.

Hands-on practice is critical to mastery of FoCUS image acquisition. Defining how to incorporate hands-on-practice into the educational plan is essential to a successful outcome.

Defining the organizational FoCUS training needs is critical in building an optimal education plan (identifying the number of trainees/yr, trainer availability, course selection, etc.).

Training compliance, comprehension, and skill is verified using data and proficiency testing.

