

## Training in minimally invasive surgery

**Maria Kazantzi**

Evangelismos Private Hospital, Cyprus

### Abstract

Minimally invasive surgery poses a significant role in routine surgical operations recently. More and more patients prefer a less invasive method to get treated. However, the learning curve required to obtain minimal invasive surgery expertise has been a barrier in its spreading. The traditional method of obtaining technical skills in surgical specialties is based in the principle of 'see one, do one, teach one' when the resident surgeon, after observing a procedure for the first time, is then expected to be capable to perform that procedure without complications and is also expected to be able to train another resident surgeon on how to perform effectively the same procedure. However, this method may not be applicable to minimally invasive surgery due to difficulties like a lack of depth perception, a poor hand-eye coordination, an alteration of haptic feedback, a reduction of the movement to four degree of freedom, etc. The need of a multidimensional training is essential. Simulators and trainer boxes in laparoscopic surgery are nowadays recognized as valid instruments for learning and training surgeons in different procedures. Animal and cadaveric models are of a great importance too. Our experience in Greece is also covered in this presentation, displaying the improvement trainees achieved between their first and last performance in the simulator center regarding economy of movements, suturing accuracy, tissue handling and time to perform a laparoscopic knot.

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### Biography

Maria Kazantzi is a doctor in general surgery at "Evangelismos" hospital of Athens and Msc "Surgical Oncology" at the National and Kapodistrian University of Athens. She postgraduate from UMF Gr.T.Popa Iasi Romania. She is the member of the NoDE (Network of doctors'

education) institute. Recent publication of Maria Kazantzi is "The big debate: wait and watch or surgical resection for advance rectal cancer after clinical complete response. She is the reviewer at the "Surgical Research Open Journal".