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Jose Luis Mosso Vazquez

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Biography

Jose Luis Mosso Vazquez has completed general surgery in Mexico, endoscopic surgery in France and robotic surgery in USA. GI endoscopist and paediatrician also. He is practitioner in public health hospitals. He is also professor research at the school of medicine, Universidad Panamericana in Mexico City. He performed, developed and built the first robot as assistance for laparoscopic surgery in Mexico, co-founder of Mexican society of computer assisted surgery; He introduced virtual reality apps during outpatient surgery and more medical areas. He designed techniques for training laparoscopic surgery with smartphones and tablets for undergraduate students, medical students and college students. He performs laparoscopic surgery with smartphones on humans. He applies hibernation to perform surgeries in experimental models. He has over 45 publications and has been serving as an editorial board member in cyber psychology and behaviour Journal.

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Note:

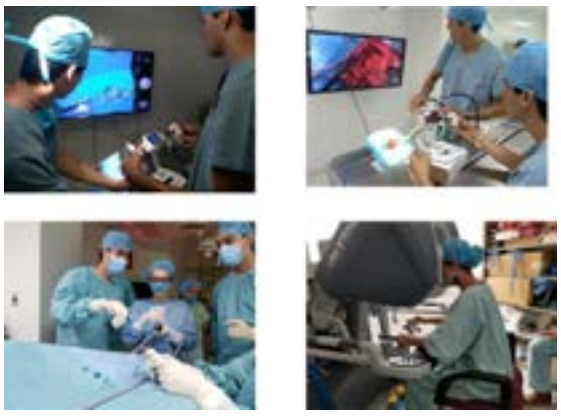
MOBILE COMPUTING DEVICES FOR LAPAROSCOPIC TRAINING EDUCATION

Mobile devices as smartphones and tablets have been used during more than 10 years as laparoscopic trainers. Undergraduate medical students and college students have been used these devices in a laparoscopic surgery learning program.

Methodology: In the first phase we used Nintendo Wii for hand eye coordination, mobile device as laparoscope are placed on bases with holder instruments attached to perform surgical tasks in physical models and live models. Students perform laparoscopic surgeries on rabbits with conventional equipment. As complementary training we have included da Vinci simulator and rotation in live surgeries under laparoscopic and robotic surgeries.

Results: 606 students have been participated in this program from the school of medicine at the Panamericana University and many private colleges in Mexico City. This study demonstrated that college students made surgical tasks faster than undergraduate medical students.

Conclusion: Cell phone and tablets as surgical simulators is a simple trainer to develop surgical skill in physical as live tissues in animal models. This device is different for the rest of the others devices in the worldwide because user can work in an open space and it permits to work on live models. We had the first experience with the participation with foreign students from USA and France with successfully results. This program is open for the worldwide and lasts 3 weeks.



Figures: Mobile devices simulators on dry and live models (above) Laparoscopic tools on live models and da Vinci simulator (below)