

Telematic medicine and surgery, the way to harmonize ICT robotic innovations with organizational changes for sustainable healthcare services

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R&D innovations arise from interdisciplinary work in the modern Medicine and Surgery. Therefore, to analyse how telemedicine R&D is influencing strategies and organizational models in healthcare systems we have to study the interactions between ICT-Robotics technologies and healthcare services on large scale. The problem has to be faced on different levels at the same: medical, technological as well economical and organizational. Overall, to make effective changes based on ICT and robotics, the healthcare systems need to leave the idea of generic e-health services in ancient healthcare organizations, but to design new treatments and patient management based on telematic medicine and surgery. At organizational level that means to switch costs-saving strategies for organizational lean thinking. The innovation of value can be obtained when healthcare organization combines innovative telematic medicine and surgery services with utility, prices and costs. To work on these innovations without rearranging the whole organizational flow around the future e-health services means inducing the healthcare organization to generate wastes and face unnecessary expences attached to future healthcare processes with such high and probably unsustainable costs.

Starting from this analysis, the National Telematic Surgery Group, SIT defined a set of fundamental issues to support the R&D projects on telematic surgery: ICT and robotic innovations developed from surgical needs; Telematic surgery services implementation based on patient management schemes; integration of imaging management systems in operation room directly controlled by surgeons; introduction of a new professional (operation room safety manager); new training system for surgical teams.

Biography

Francesco Gabbrielli attained his medicine graduation from University of Pisa 1996, and then achieved Ph.D. in General Surgery Specialist and Experimental Surgery from University of L'Aquila. He practices laparoscopic surgery and day surgery in public and private Hospitals. He has wide experience in research projects on ICT and Robotic innovations in telematic medicine and surgery, quality and safety management, transplantation network organization and governance. He is founder and general manager of the National Telematic Surgery Group (SIT: Italian Society of Telemedicine). He has published more than 40 papers in reputed journals and recently the book on new methodologies for R&D project in Telemedicine (IGI Global).

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