Special Issue

Views and Perspectives of Robot-Assisted Liver Surgery

Message from the Guest Editors

Minimally invasive liver surgery has less morbidity with equal oncological outcomes compared to open procedures. The robot adds some technical innovations to minimally invasive surgery that might help us to overcome some limitations of conventional laparoscopy. The enhanced degrees of freedom at the tip of the instruments enable precise dissection in narrow spaces, improve stitching and ensure tissue control in complex situations during surgery. The three-dimensional visualization is stable with several frames of magnification. One major limitation is the missing haptic, which is a feature that should be added in the future. The current so-called robots are not really robots, they are tele-manipulators because they are handled by a surgeon from a console. Real autonomy of the machines does not exist so far. However, the current systems are platforms that have the potential for future innovation. Here, we summarize the current results indicating the value of the robot in minimally invasive liver surgery from oncological surgery to living donor hepatectomy for transplantation and give some insight into future trends and innovation.

Guest Editors

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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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