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Right Hemicolectomy with Complete Mesocolic Excision Using the Versius Surgical System®: A Step-by-Step Guide

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Abstract
The application of new robotic platforms in colorectal surgery has increased greatly in the last 10 years. New systems have been released and entered the surgical panorama, broadening the technological offer. Robotic surgery applied to colorectal oncological surgery has been widely described. Hybrid robotic surgery in right sided colonic cancer has been previously reported. According to the site and local extension of a right-sided colon cancer, a different lymphadenectomy could be required. For more distant and locally advanced tumors a complete mesocolic excision (CME) is indicated. CME for right colon cancer is a complex operation compared to standard right hemicolectomy. Therefore a hybrid robotic system may be effectively applied to CME during a minimally-invasive right hemicolectomy to improve the dissection accuracy. Here we report a step-by-step hybrid laparoscopic/robotic right hemicolectomy with CME performed with the Versius Surgical System®, a tele-operated surgical robotic system intended for the use of robotic assisted surgery.
Key words: hybrid robotic surgery, CME, CMR Versius