

Laparoscopy in Abdominal Emergencies.

Romanian Association for Endoscopic Surgery Consensus. Part I (Trauma)

Florin-Mihail Iordache^{1,2}, Tiberiu Giumba², Cătălin Bărbăian², Andrei Ghioldiș^{3,4}, Vlad Făgărășan^{5,6}, Cătălin Copăescu^{1,7,8}, Victor Tomulescu⁷, Vasile Bințișan^{5,6}, Ciprian Duță^{9,10}, Răzvan Popescu^{3,4}, Valeriu Șurlin^{11,12}, Dan Ulmeanu^{13,14}, Alexandru Nicolau², Bogdan Diaconescu^{1,2}, Valentin Calu^{1,15}, Mircea Lițescu^{1,16}, Adrian Bartoș^{17,18}, Bogdan Totolici^{19,20}, Călin Molnar^{21,22}, Narcis Octavian Zărnescu^{1,23}, Marius Coroș^{21,22}, Stelian Pantea^{9,10}, Daniel Vasile Timofte^{8,24}, Eugen Tarcoveanu²⁴

¹Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

²Department of Surgery, Bucharest Emergency Hospital, Romania

³Ovidius University of Constanța, Faculty of Medicine, Constanța, Romania

⁴St. Andrew University Clinical County Hospital, Constanța

⁵Iuliu Hațieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

⁶1st Surgical Clinic, Clinical County Hospital Cluj-Napoca, Romania

⁷Ponderas Academic Hospital, Bucharest, Romania

⁸Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania

⁹Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania

¹⁰3rd Surgical Clinic, Clinical County Hospital Timișoara, Romania

¹¹University of Medicine and Pharmacy of Craiova, Romania

¹²Department of Surgery, Clinical County Emergency Hospital of Craiova, Romania

¹³Nord Hospital, Bucharest, Romania

¹⁴Titu Maiorescu University, Faculty of Medicine, Bucharest, Romania

¹⁵Department of Surgery, Elias Emergency Clinical Hospital Bucharest, Romania

¹⁶Department of General Surgery, Sf. Ioan Clinical Emergency Hospital, Bucharest, Romania

¹⁷Babes-Bolyai University, Cluj-Napoca, Romania

¹⁸Medicover Hospital, Suceagu, Cluj, Romania

¹⁹West University Vasile Goldis, Arad, Romania

²⁰Department of Surgery, County Hospital Arad, Romania

²¹George Emil Palade University of Medicine and Pharmacy, Science and Technology, Târgu-Mureș, Romania

²²Department of Surgery, Târgu-Mureș Emergency Clinical County Hospital, Târgu-Mureș, Romania

²³Department of Surgery, Bucharest University Clinical Emergency Hospital, Bucharest, Romania

²⁴Department of Surgery, St. Spiridon Clinical Emergency County Hospital Iași, Romania

Abstract

Background: laparoscopy has emerged as a pivotal tool for the management of acute abdominal pathologies. It provides diagnostic and therapeutic advantages, enabling surgeons to evaluate and address diverse acute abdominal conditions using minimally invasive techniques. The aim of this consensus was to obtain evidence-based guidance for surgeons regarding the utilization of laparoscopy in emergency medical settings, and has been divided into trauma and non-trauma emergencies. This is the part dedicated for trauma.

Material and Methods: the task forces of the RAES Research Committee and a panel of experts were established. The development of consensus statements started with an extensive literature review of available medical databases (PubMed, Cochrane, and EMBASE). A set of questions addressing major issues related to the use of laparoscopy in trauma and non-trauma emergencies was defined. The validation of the questions set was performed by the expert group through the first Delphi

round. Consensus statements and recommendations were also obtained. The quality of evidence and recommendation strength were rated using the GRADE system. The recommendations were formulated in a directive manner and then assessed by an expert panel using the Delphi technique for agreement.

Results: the two main types of emergencies were trauma and non-trauma. There were seven recommendations for the trauma section. For each statement, agreement from the expert panel was obtained. The statements included training for surgeons involved in trauma care, indications and contraindications for laparoscopy in trauma cases, and conversions and complications of laparoscopy for trauma.

Conclusions: the RAES consensus offers a set of guidelines for surgeons managing acute abdominal conditions using laparoscopic techniques.

Key words: laparoscopy, emergency surgery, acute abdomen