





International Journal of Surgery

Volume 104, August 2022, 106766

Quality Improvement Study

The first international Delphi consensus statement on Laparoscopic Gastrointestinal surgery

[Islam Omar](#)^a  , [Karl Miller](#)^b, [Brijesh Madhok](#)^c, [Bassem Amr](#)^d, [Rishi Singhal](#)^e, [Yitka Graham](#)^{f g}, [Sjaak Pouwels](#)^h, [Mohammad Abu Hilal](#)^{i j}, [Sandeep Aggarwal](#)^k, [Irfan Ahmed](#)^l, [Ali Aminian](#)^m, [Basil Jaser Ammori](#)ⁿ, [Tan Arulampalam](#)^o, [Altaf Awan](#)^c, [José María Balibrea](#)^p, [Aneel Bhangu](#)^q, [Richard Raymond Brady](#)^r, [Wendy Brown](#)^s, [Manish Chand](#)^t, [Ara Darzi](#)^u...[Kamal K. Mahawar](#)^{f a g}

[Show more](#) 

 Share  Cite

<https://doi.org/10.1016/j.ijssu.2022.106766> 

[Get rights and content](#) 

Abstract

Background

Laparoscopic surgery has almost replaced open surgery in many areas of Gastro-Intestinal (GI) surgery. There is currently no published expert consensus statement on the principles of laparoscopic GI surgery. This may have affected the training of new surgeons. This exercise aimed to achieve an expert consensus on important principles of laparoscopic GI surgery.

Methods

A committee of 38 international experts in laparoscopic GI surgery proposed and voted on 149 statements in two rounds following a strict modified Delphi protocol.

Results

A consensus was achieved on 133 statements after two rounds of voting. All experts agreed on tailoring the first port site to the patient, whereas 84.2% advised avoiding the umbilical area for pneumoperitoneum in patients who had a prior midline laparotomy. Moreover, 86.8% agreed on closing all 15mm ports irrespective of the patient's body mass index.