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Hand assisted laparoscopic surgery: An overview

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Hand assisted laparoscopic surgery is an updated highly advanced version of laparoscopic technique. Such techniques bridge the gap between traditional surgery and total laparoscopic surgery. Introduction of the hand intracorporeally enhanced the degree of freedom, hence, a remarkable degree of precision and safety in task performance. Clinical and experimental studies confirmed safe use of the hand with insufflation pressure enhancing dexterity as well as a steep learning curve. Therefore, the author made an overview analysis to the factors related to safety; efficiency; dexterity; instrumentation and cost-effectiveness for the use of hand assisted laparoscopic surgery with a particular emphasis on live donor nephrectomy. Prospective studies made by Kolvenbach R on the use of hand assisted laparoscopic surgery in aortic aneurysm repair proved high degree of safety and efficiency as well as cost effectiveness. Several studies highlighted a multitude of factors significantly contributing into a high degree of precision and task performance which reflected on uneventful enhanced recovery programme. There are various hand port devices of which the pros and cons for each port will be discussed in details. Several studies; in particular, the author's experimental studies confirmed that optimum safe insufflation pressure would be 10 mm Hg with no leak from the hand port and optimum dexterity and task performance. Hand assisted laparoscopic surgery is a safe and efficient technique. It significantly enhances concept of enhanced recovery programme. Raising public awareness can provide a high impact in enhancing live donor nephrectomy; hence reducing the inexorable renal transplant waiting list for patients with end stage renal disease.

Biography

Haussam Elenin has completed his MD in Minimal Access Surgery with a special interest in Hand Assisted Laparoscopic Surgery. He has been Regional Surgical Adviser and Surgical Tutor for the Royal College of Surgeons for North Ireland and has a wide case mix of Surgical experience of more than 25 years. He has over 15 publications. The author is currently a Consultant Laparoscopic and General Surgeon at The Private Hospital Groups of Dr. Suleiman Al Habib Hospitals in Riyadh/Saudi Arabia.

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