How To Use Laparoscopic Surgical Instruments Safely

This video from the International Journal of Urology focuses on the use of trocars. It is part of an article with 6 videos on "How to use laparoscopic surgical instruments safely". View the article at the above link and find the videos under Supporting Information of the article.

Article abstract: The development of laparoscopic surgery has been accompanied by a rapid increase in the number of laparoscopic surgical procedures carried out in the field of urology. In 2002 laparoscopic nephrectomy was approved for coverage under Japanese national health insurance, and in 2003 there were over 1000 registered cases in which this procedure was carried out. This suggests that laparoscopic nephrectomy, a procedure formerly conducted at only a few institutions, is now spreading to hospitals across Japan. Laparoscopic surgery involves the use of specialized instruments within a restricted field of vision, and risky surgical techniques can potentially result in visceral or vascular damage. In order to promote the use of safe laparoscopic surgery procedures, the Japanese Urological Association and the Japanese Society of Endourology and Extracorporeal Shock Wave Lithotripsy (ESWL) have inaugurated a certification program for urologic laparoscopy. This program not only encourages development in this field of surgery and provides technical certification to ensure appropriate levels of expertise, but also reviews methods for the correct use of instruments such as trocars and hemostats. The purpose of this video is to present correct methods for the use of a variety of laparoscopic instruments, in order to increase the safety of this procedure. The video has been designed to be useful not only for practitioners who are just beginning laparoscopy, but also for those who already have extensive laparoscopic experience. The video discusses five laparoscopic instruments (trocar, electric surgical devices, ultrasonic surgery devices, clips and clip appliers and endo-staplers), and demonstrates their correct use. In addition, animal models are used to illustrate the potential complications that can be associated with some methods of use.

This is a reproduced video from the Audio-Visual Journal of the Japanese Urological Association. It has been modified with an English voice-over.

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