

Which procedure should we prefer robotic surgical system to laparoscopy?

Adeviye ELCI ATILGAN

ABSTRACT: TObjective: The robotic surgical system is mainly superior to laparoscopy with its ability to move in seven axes and the opportunity to mimic the surgeon's hand movements. At the same time provides the surgeon with a high-definition, three-dimensional view of the operative field. However, despite these advantages, it have not completely replace laparoscopy. However, in some procedures, we prefer the robotic system especially to laparoscopy. Here, we aimed to evaluate the cases in which we prefer the robot to the laparoscopy.

Methodology: An electronic-based search was performed on our university database for benign gynecologic operations performed with Da Vinci XI Robotic system and laparoscopy in the last 10 years was searched. The indications were also Compared.

Findings: We found 1152 benign minimal invasive procedures performed for benign conditions at this period. 220(19.09%) of them operated with Da Vinci XI Robotic system and the rest was performed with laparoscopy.

When we search the indications of surgeries from the patient file archives, we see that the robotic system was most frequently preferred in deep infiltrating endometriosis120(54.5%), myomectomy48(21.8%), (11.2%), hysterectomy 50(22.7%) and tuboplasty2(0.9%) procedures respectively. On the other hand laparoscopy was most frequently preferred for hysterectomy ,myomectomy , ovarian cystectomy respectively.

Conclusion & Significance: Since the higher cost of robotic surgery, it does not seem possible to replace the laparoscopy completely. However, endometriosis, which requires dissection in deeper abdominal planes, in tuboplasty and myomectomy procedures as easier suturation capability with high definition, three-dimensional view, robotic system is preferred primarily.

Biography:-

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