

Conceptual Medical Procedure: Robotic Single Site Laparoscopic Myomectomy

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Introduction

Our article aims to be both a review of the recent past and a forecast of what lies ahead for regenerative medicine. We attempt to predict the future by taking into account the rate of technological advancement over the last ten years. We also explore the evolving nature and pragmatic challenges of gynaecologic surgery for the conceptive endocrinology and fruitlessness subspecialist. We will make sense of how novel developments might alter our perceptions and presumptions regarding the indications, timing, and intensity of careful intercession in the patient seeking preservation of ripeness as well as the patient who is barren. This study does not aim to be exhaustive; rather, it focuses on those developments that, in our opinion, have a real chance of influencing the future of meticulous practise [1]. Ours is essentially an audit of innovation. All things considered, it doesn't focus on cautious, careful techniques like ovarian and uterine tissue transplantation.

However, there are definite indications in the industry that the time has come for a mechanical insurgency in medical procedure. Approximately ten robot-aided surgical (RAS) products are being developed by as many organisations at this time. Future competition is expected to be fierce, with a strong focus on cost control and reduction. In all upcoming meticulous stages, we anticipate that mechanical tools and laparoscopic ports will be identical to the 5 mm laparoscopic ones [2]. However, developing completely wristed, scaled-down automated instruments has proven to be incredibly difficult. Although 5 mm snake tip instruments have long been available, they lack the adaptability of pulley-based instruments. Additionally, more durable semi-disposable equipment would lower RAS's operating costs. Mechanical arms should be less intrusive and less likely to collide with the bedside staff and other mechanical arms. This may be achieved by a simple reduction in arm widths, but it may also involve more advanced technology, such as an increase in the number of joints per arm, as well as the development of aware arms that can register their own area in space and adjust as necessary by the developments of other arms.

The advancement of vision is expected to continue, with 4K visors presumably replacing the current 1080K visors. Nevertheless, the degree of lucidity we can achieve while scaling

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down laparoscopes may be constrained by actual limitations due to camera size and the need to keep up with stereoscopy. Brilliant vision and image fusion are likely to advance. The primary smart vision advancement currently available is firefly fluorescence imaging, which is compatible with the two most recent generations of the da Vinci robot. In the movie Firefly, a remarkable camera uses close-up infrared imaging to identify an infused tracer, indocyanine green, and exceptionally vascularized tissues. Firefly has a variety of uses, including highlighting lymph nodes and even ureters (with transurethral infusion via catheter/cystoscopy). It is difficult to imagine how comparative innovations could change the way we approach conditions like endometriosis for example, when fluorescence can be connected to explicit tissue markers [3]. Despite the fact that there are few conceptual medical procedures that use fireflies. Future mechanical/non-automated stages can be expected to use picture fusion, where imported data from 3-layered (3D) ultrasound, 3D processed tomography, and attractive reverberation imaging is "locked" onto specific physical focuses that the robot can perceive during a medical procedure, taking into account picture scaling and constant 3D picture fusion. Applications for regenerative medicine could include extensive myoma planning in difficult different myomectomies, area of damaged adnexal, urological, and rectal life systems in difficult adhesiolysis, endometriosis extractions, and unexpected mullein inconsistency cases.

The business is sending out clear signals that the time has come for a mechanical insurgency in medical procedure. Approximately

ten robot-aided surgical (RAS) products are being developed at the moment by as many organisations [4]. It is anticipated that future competition will be fierce, with a strong emphasis on cost control and reduction. In all upcoming meticulous stages, we anticipate that mechanical tools and laparoscopic ports will be identical to the 5 mm laparoscopic ones (and ought to as of now expect to copy the 3 mm minilaparoscopy standard). However, developing completely wristed, scaled-down automated instruments has proven to be incredibly difficult. Although 5 mm snake tip instruments have long been available, they lack the adaptability of pulley-based instruments. Additionally, more durable semi-disposable equipment would lower RAS's operating costs. Mechanical arms should be less intrusive and less likely to collide with the bedside staff and other mechanical arms.

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