

# A STUDY ON SURGICAL ROBOTS AND THEIR RECENT DEVELOPMENTS

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**Abstract** – In recent years, Robotics has been rapidly developing with outstanding growth and innovation. This paper aims to analyze the key developments in the sub-domain of robotics such as medical robots, especially surgical robots. Surgical robots have evolved as a transformed force in the medical field in the way of performing complex surgical procedures. In this paper a comprehensive review of the latest trends, developments, and the challenges faced by the surgical robots and their instruments have been provided, including minimally invasive robotic surgery, telemedicine, remote surgery and robot-assisted surgery across various specialties in the medical field. This paper also provides the developments in surgical robots and their instruments in surgical precision, AI-driven decision support, and remote surgery capabilities, also provides the ability of surgical robots in the field of healthcare to address the challenges and enhance the specialized healthcare systems. This review offers a valuable resource for healthcare specialists, and researchers for gaining a better understanding of the evolution and the recent state of surgical robots and its impact on healthcare practices.

**Keywords** – Robotic surgery, Healthcare, Medical, Surgical Robots, Telemedicine.

## 1. INTRODUCTION

Robotics is concerned with the design and development of robotic systems. A robotic system has the capability of doing functions and activities for people to make their lives easier and to manage the typical work process. Robotics is a multidisciplinary engineering field that covers electrical, mechanical, computer science, bioengineering, and other fields. These technologies are being utilized to create a machine that can take the place of people and do human-like activities. Later, robotics technology allowed for the development of personal and service robots to aid people in a variety of industries. Medical robots and surgical systems are a fast-expanding sector within service robotics.

Evolution in Medicine and Computer Technology has opened massive steps in the field of surgery. Implementation of Robotic Surgery (RS) in the operating theatre improved the quality and risk of several surgical procedures. Particularly, robotic surgery is a minimally invasive method that reduces post-surgery recovery time. In this case, the surgeon follows certain steps to administer the instrument. The steps involve direct manipulation or control of access

through computers. Robotic surgery can be performed without the presence of a surgeon leading to the advantage of remote surgery. The surgical robot arms carry tools like light, cutting tools, and a camera [1].



Figure 1. Surgical Robot and Surgery Process.

## 2. EVOLUTION OF ROBOTIC SURGERY

The concept of robotic surgery evolved about 25 years ago to assist orthopedic surgery. Arthrobot was the earliest surgical robot invented in Vancouver in 1983 to place the patient's leg over the vocal remark of the surgeon. The robot performed almost 60 arthroscopic surgeries within the first 12 months [2]. In 1985, the PUMA 200 robot was used to orient the cannula during brain biopsy under CT guidance. In the later 1980s, Brian Davies et al., at Imperial College in London developed a PROBOT to assist the prostate surgery. The advantage of PROBOT was its size and accuracy. In 1991 Alberto and his team developed a robot for the resection of the prostate (TRUP) which was used in clinical trials [3].

In 1992, ROBODOC was developed for an orthopedic operation on the femur for the replacement of the hip [4]. Similarly, CRIGOS [5] and Maquet CASPAR [6] were also developed for orthopedic surgery. The surgical robot developed by Yulan Wang in 1989 was able to move an endoscope during the surgical Laparoscope operation [7]. This system was commercialized as AESOP (An automated endoscopic system for optimal positioning) and used in the operation room. Later the AESOP system is remodeled into Zeus Robotic surgical system with additional arms and different surgical tools [8]. In 1994, Steve Charles and the

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**Marcello Migliore, Domenico Galetta  
, Masayuki Chida**



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on the outflow system and the canal as illustrated in this book

**Surgical Research** Wiley W. Souba, Douglas W. Wilmore, 2001-02-23 With the recent changes in the health care industry surgeons face increasing pressure to devote their time to their clinical activities thus limiting their research efforts It is essential that young and creative individuals are encouraged to perform research and are given incentives to participate in research under the mentorship of more experienced research investigators Surgical Research is the first book to include all the information necessary for the surgical scientist to perform a research experiment The editors have assembled outstanding expert investigators in multiple surgical fields and asked them to describe how they achieve their research accomplishments In Surgical Research these experts in the field have outlined everything involved in preparing and conducting a research project Some of the topics covered in the book include how to state a research question how to review the available information how to write research protocol how to obtain grant money for the experiment how to analyze the data and how to present the findings Also discussed are the ethics of animal and human experimentation along with the history and philosophy of surgical research To continue to advance technologies and surgical methods research must continually be performed Potentially great discoveries are being missed because would be researchers do not know where to start or how to conduct research and therefore do not even try This book provides prospective researchers with all the basic steps needed to perform a research experiment in the surgical field No student resident or fellow should start a research project without this book and no senior surgical scientist should be without it occupying a prominent position in the library Key Features The first complete compendium detailing the process and procedures to perform surgical research Provides details on and compares various methodologies A must have resource for the surgical resident fellow or scientist Includes a listing of resources and web sites to help the researcher even further

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