

International Conference on
STEM CELLS AND REGENERATIVE MEDICINE
&
2nd World Congress on
PEDIATRICS AND CHILD CARE

November 06-07, 2019 | Tokyo, Japan



Mario Navarrete Arellano

Hospital Central Militar, Mexico

Pediatric Robotic Surgery, experience and results of the first program in Mexico and Latin America

Statement of the Problem: There have been few reports on robotic general pediatric surgery. So far, the largest number of publications has been in the area of robotic urology. There is evidence that robotic surgery in children is safe. If conventional laparoscopy is used, the reconstruction procedures are very challenging, whereas robotic surgery overcomes its limitations and offers important advantages in complex surgeries. For example, the choledochal cysts have an incidence in the Asian population of 1 in 1000, about two thirds of cases reported in Japan. The surgical treatment is extirpation of the cyst with bilioenteric anastomosis in Roux-en-Y. I will emphasize this pathology, because robotic surgery is an excellent treatment alternative. More than 70 different surgical techniques have been published in children. There is a scarcity of publications in Latin America and our program is pioneer. The purpose to present the applications, share our experience and spread the robotic surgery in pediatric patients.

Methodology & Theoretical Orientation: A prospective, observational and longitudinal study was conducted from March 2015 to April 2019, that involved all pediatric patients that was treated with robotic surgery. The parameters evaluated were 13. I present the results of 256 procedures and 46 different robotic surgical techniques and in the discussion we compare our results with publications on general pediatric robotic surgery.

Conclusion & Significance: A enormous variety of surgeries can be safely performed, including complex surgeries: hepatobiliary, thoracic and tumor areas. It is important to offer children the advantages and safety of robotic surgery, it has been accepted slowly for children. It is possible to implement an effective program of pediatric robotic surgery in which multiple procedures are performed and with similar results to hospital centers in developed countries. It is very important to promote surgery of the future.

Biography

Mario Navarrete Arellano is a specialist in Medical Pediatrics and Pediatric Surgeon, 29 years of experience in pediatric surgery, open surgery and conventional minimally invasive (thoraco-laparoscopy) and in the last 4 years has developed the expertise in robotic surgery (more than 200 procedures), in a public hospital of third level of care and performing private practice. Graduate from the Escuela Médico Militar (1975-1981) and Escuela Militar de Graduados de Sanidad (1982-1990), Universidad del Ejército y Fuerza Aérea Mexicanos. I hold the degree General Brigadier Surgeon Medical. Hospital trajectory: Added Medical Doctor, Head of Service, Head of Department, Head of Division of Pediatrics and Pediatric Surgery, Head of the External Assistance Area and Medical Subdirector in the Hospital Central Militar, Mexico City (1990-2018). Profesor and Chief of Courses of Pre and Postgraduate of Medical Pediatric and Pediatric Surgery, Escuela Médico Militar and Escuela Militar de Graduados de Sanidad, Universidad del Ejército y Fuerza Aérea (1985-2009). Mexico City. Advisor in 10 Works of Research (Thesis of Degree). More than 50 Publications in Medical Journals of the Specialty and Author or co-author of 4 Chapters in specialty books. Speaker or Profesor in more than 200 academic events, national or international. Member of 10 Societies, Associations, College and Academy National and International.

drcirurgiaroticamx@gmail.com