

The da Vinci Xi ROBOT-Assisted Surgery

An intelligent surgical solution
for Minimally Invasive Surgery

General
Surgery

Thoracic
Surgery

Urological
Surgery

Gynecological
Surgery

ENT
Surgery

Colorectal
Cancer Surgery



Better Access



Improved Visualization



Enhanced Precision



Less Complications



Fast Recovery



GET TO KNOW

ROBOT-ASSISTED SURGERY USING THE DA VINCI Xi

Robotic-Assisted Surgery using the da Vinci Xi system is currently the most advanced platform designed for a wide range of minimally invasive surgeries. Its innovative technology makes this robotic system versatile and suitable for different fields of surgery. Robotic arms with 3D camera and magnification allow enhanced visualization with better access to hard-to-reach locations, resulting in an improved surgical precision with less postoperative complication and faster recovery.

At **Bangkok Hospital**, our surgeons are highly specialized and well-trained in robotic-assisted surgery, adhering to international standards. Our ultimate goal is to achieve the best possible surgical outcomes and patient's safety, ensuring that all patients are in good hands.

WHAT ARE ADVANTAGES

OF THE DA VINCI Xi ?

The fourth generation of the da Vinci system yields benefits, including:



Better access

Robotic arms are capable of free movements of nearly 360° on seven axes, thereby improving access to anatomically challenging or hard-to-reach areas.



More precise surgery

Surgery can be carried out efficiently since the robotic arm's movements are highly precise with greater range of motion. The arms rotate instruments interchangeably in tight spaces in ways that are not otherwise possible.



Improved visualization

A sophisticated camera provides magnified, high-definition views of the surgical area with a better visualization of vessels, nerves and muscles nearby, resulting in less complications caused by damage to the surrounding areas.



Built-in tremor-filtration

Built-in tremor-filtration eliminates the surgeon's hand tremors to prevent involuntary movements, allowing more surgical accuracy.



Multi-quadrant surgery:

It allows a single operation on several connected organs located in different abdominal quadrants without moving the position of the patient.



Faster recovery

Due to small incisions, patients often experience less pain, shorter hospital stay with a quick return to daily life.



WHO ARE GOOD CANDIDATES FOR THE DA VINCI Xi?

Robotic-Assisted Surgery using the da Vinci Xi can be applied to a wide variety of surgery, especially **complicated cases or difficult-to-reach areas.**



Thoracic diseases

e.g. lung cancer, chest wall cancer and thymus gland disease.



Abdominal diseases and Hepato-pancreato-biliary diseases

e.g. hernias, gallstones, liver cancer, pancreatic cancer and gallbladder cancer.



Gastrointestinal diseases

e.g. esophageal cancer and colorectal cancer.



Urological diseases

e.g. prostate cancer, bladder cancer and kidney cancer.



Gynecological diseases

e.g. uterine fibroid or uterine cancer, ovarian mass and pelvic organ prolapse.



Otolaryngology-head and neck diseases

e.g. benign tumors in the throat, neck masses, tonsil cancer, base of the tongue cancer, Laryngeal cancer and nasopharyngeal cancer.

OUR WELL-TRAINED EXPERT SURGEONS

SPECIALIZED IN ROBOT-ASSISTED SURGERY



PROFILE OF EXPERT SURGEONS



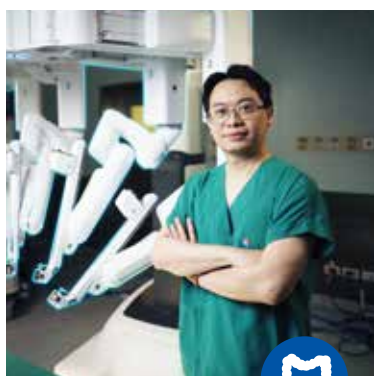
Dr. Padungkiat
Tangpiroontham



Asst. Prof. Dr. Tanet
Thaidumrong



Dr. Yingchi
Wang



Dr. Chanin
Pundee



Assoc. Prof. Dr. Thun
Ingkakul, MD, FACS, FRCST



Asst. Prof. Dr. Supreecha
Asavakarn



Dr. Romyen
Jitmongngan



Dr. Padungkiat

Tangpiroontham

“ Robot-assisted thoracic surgery is new era of surgical excellence that accelerates surgical precision through the latest innovation with precise resection, less pain and faster recovery ”

Specialty

Thoracic Surgical Oncology

Expertise

- Robotic-Assisted Thoracic Surgery
- Uniportal Video Assisted Thoracic Surgery (VATS)
- Lung Cancer
- Mediastinal Cancer
- Chest Wall Surgery Reconstruction
- Electromagnetic Navigation Bronchoscopy

Languages

English and Thai

Centers & Clinics

- **Surgical Oncology Center**, Bangkok Cancer Hospital
- **Cardiothoracic Surgery Center**, Bangkok Heart Hospital

Education

- 2017 Foregut and Thoracic Surgery**, Harvard Medical School Brigham and Women's Hospital, United States
- 2015 Cardiovascular and Thoracic Surgery**, Siriraj Hospital, Mahidol University, Thailand
- 2007 Doctor of Medicine**, Siriraj Hospital, Mahidol University, Thailand

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Asst. Prof. Dr. Tanet

Thaidumrong

“ Robotic-assisted surgery using the da VINCI Xi can help speed recovery and restore urinary continence ”

Specialty

Urological Surgery

Expertise

- Robot-Assisted Surgery and Minimally Invasive Surgery in Urology
- Retzius Sparing Robot- Assisted Radical Prostatectomy (RS-RARP)
- Robot-Assisted Partial Nephrectomy (RAPN)
- Robot-Assisted Radical Nephroureterectomy with Bladder Cuff Excision(RARNU)
- Robot-Assisted Adrenalectomy (RAA)
- Robot-Assisted Pyeloplasty (RAP)
- Laparoscopic Urologic Surgery
- Endoscopic Urological Surgery
- Urinary Stone Surgery and Prevention
- Transurethral Anatomical Enucleation of Prostate (TUAEP) with LASER or Bipolar Systems
- REZUM - Water Vapor Therapy for Benign Prostatic Hyperplasia (BPH)
- Transurethral Resection of Bladder Tumor
- Kidney Transplantation

Languages

English and Thai

Centers & Clinics

Urology Center, Bangkok Hospital

Education

- 2022** Certified TR300 advance training course-Davinci Xi Surgical Systems : Robot-Assisted Partial Nephrectomy
- 2021** Certified Robotic Surgery, Instuitive - Provided Instruction
- 2012** Laparoscopic and Robotic Urology, Saint Augustin Clinique, Bordeaux, France
- 2011** Urological Surgery, Rajavithi Hospital, Thailand
- 2010** Laparoscopic Urological Surgery, IRCAD TAIWAN
- 2009** Laparoscopic and Robotic Urology, L'Institut Mutualiste Montsouris, Paris, France
- 2008** Laparoscopic Radical Prostatectomy, Europ'eenne De Chirurgie, Paris, France
- 2003** Doctor of Medicine, Rangsit University, Thailand

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Asst. Prof. Dr. Supreecha

Asavakarn

“ The da VINCI Xi can be widely applied to abdominal conditions, e.g. hernias and gallstones as well as liver, pancreatic and gallbladder cancers ”

Specialty

Hepato-Pancreato-Biliary (HPB) Surgery / Minimally Invasive Surgery and Organ Transplant (Robot-Assisted Surgery)

Expertise

- Robot-Assisted Abdominal Surgery
- Laparoscopic Abdominal Surgery
- Laparoscopic Liver Resection
- Groin and Abdominal Wall Hernia Surgery
- Liver Transplantation, Kidney Transplantation, Pancreas Transplantation
- Gallbladder Diseases, Gallstones Diseases
- Bile Duct Tumor and Bile Duct Cancer Surgery
- Liver Tumor and Liver Cancer Surgery
- Pancreatic Tumor / Cancer Surgery

Languages

English and Thai

Centers & Clinics

- **Surgery Center**, Bangkok Hospital
- **Surgical Oncology Center and Colorectal Surgery Clinic**, Bangkok Cancer Hospital

Education

- 2014 Certificate of Da Vinci Xi Training**, Intuitive Surgical, Seoul, Korea
- 2014 International Fellowship Program**, Division of the Minimally Invasive and Robotic Surgery, the Valley Hospital, New Jersey, USA.
- 2013 Laparoscopic Hapatobiliary Surgery Advanced Course**, IRCAD, France
- 2012 HPB and Transplantation**, Department of Surgery, Kyoto University Hospital, Japan
- 2009 Surgery**, Siriraj Hospital, Mahidol University, Thailand
- 2002 Doctor of Medicine**, Siriraj Hospital, Mahidol University, Thailand

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Dr. Chanin

Pundee

“ Medical advances in robot-assisted surgery have sole purpose not only to treat patient's diseases but also to minimize complications and enhance recovery ”

Specialty

Robotic and Laparoscopic Surgery

Expertise

- Robotic / Laparoscopic Hernia and Abdominal Wall Surgery
- Robotic / Laparoscopic Cholecystectomy (Gallbladder Surgery)
- Laparoscopic Abdominal Surgery
- Colorectal Surgery

Languages

English and Thai

Centers & Clinics

- **Surgery Center**, Bangkok Hospital
- **Surgical Oncology Center and Colorectal Surgery Clinic**, Bangkok Cancer Hospital

Education

- 2024 Robotic Training course (TR 300):**
Hernia Repair Surgeon-Led Procedure from DTG Medical PTE, Singapore
- 2023 Certificate of Da Vinci Xi Training**, Intuitive Surgical, Seoul, Korea
- 2012 Minimally invasive surgery**, Siriraj Hospital, Thailand
- 2009 Surgery**, Siriraj Hospital, Thailand
- 2002 Doctor of Medicine**, Siriraj Hospital, Mahidol University, Thailand

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Assoc. Prof. Dr. Thun

Ingkakul, MD, FACS, FRCST

“ Due to better access of the da VINCI Xi, it is beneficial to treat not only the general surgical diseases but also the more complex diseases, e.g. liver and pancreatic conditions with enhanced surgical precision, less complications, and superior surgical outcomes ”

Specialty

Hepato-Pancreato-Biliary (HPB) Surgery / Minimally Invasive Surgery
(Robot-Assisted Surgery)

Expertise

- Robotic / laparoscopic cholecystectomy
- Robotic / laparoscopic pancreatectomy
- Robotic / laparoscopic hepatectomy
- Robotic / laparoscopic bile duct excision/surgery
- Robotic / laparoscopic abdominal wall/inguinal/hiatal hernia repair
- Liver diseases, e.g. liver mass, liver cancer and liver cyst
- Pancreatic diseases, e.g. acute and chronic pancreatitis, pancreatic mass, pancreatic cancer and pancreatic cyst
- Biliary tract diseases: gallstones and other gallbladder diseases and bile duct tumor

Languages

English and Thai

Centers & Clinics

- **Surgery Center**, Bangkok Hospital
- **Surgical Oncology Center and Colorectal Surgery Clinic**, Bangkok Cancer Hospital

Education

- 2023** **Certificate of Da Vinci System Training**, Intuitive Surgical, Seoul, Korea
- 2017** **Fellow of American College of Surgeons (FACS)**
- 2010** **Pancreatic and Biliary Surgery**, Department of Surgery, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA
- 2009** **Hepatobiliary and Pancreatic Surgery**, Department of Surgery and Oncology, Kyushu University Hospital, Fukuoka, Japan
- 2004** **Thai Board of Surgery**, Phramongkutklao Hospital, Thailand
- 1998** **Doctor of Medicine**, Phramongkutklao College of Medicine, Thailand

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Dr. Romyen

Jitmungngan

“ With high-definition 3D image and more precise movement, robot-assisted surgery overcomes some technical limitation and decreases conversion rate ”

Specialty

Colon and rectal surgery

Expertise

- Laparoscopic/Robot-assisted laparoscopic colon and rectal surgery
- Laparoscopic/Robot-assisted laparoscopic rectopexy

Languages

English and Thai

Centers & Clinics

- Colorectal surgery clinic, Surgery Center, Bangkok Hospital

Education

- 2024 **Certificate of da Vinci Technology Training as Console Surgeon**
- 2018 **Diploma**, Thai Board of Colon and Rectal Surgery, Mahidol University
- 2012 **Diploma**, Thai Board of Surgery, Mahidol University

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Dr. Yingchi

Wang

“ With the better dexterity, surgeons are able to perform complex surgery alongside high degree of safety while minimizing operative complications and promoting a fast recovery ”

Specialty

Obstetrics and Gynecology / Minimally Invasive Gynecologic Surgery

Expertise

- Robot-Assisted Gynecologic Surgery
- Advanced Laparoscopic Gynecologic Surgery
- Uterine Fibroid, Endometriosis, Ovarian and Uterine Tumor
- Advanced Huge Uterine Fibroid
- Severe Pelvic Adhesion
- Deep Endometriosis

Languages

English, Chinese and Thai

Centers & Clinics

Women's Health Center, Bangkok Hospital

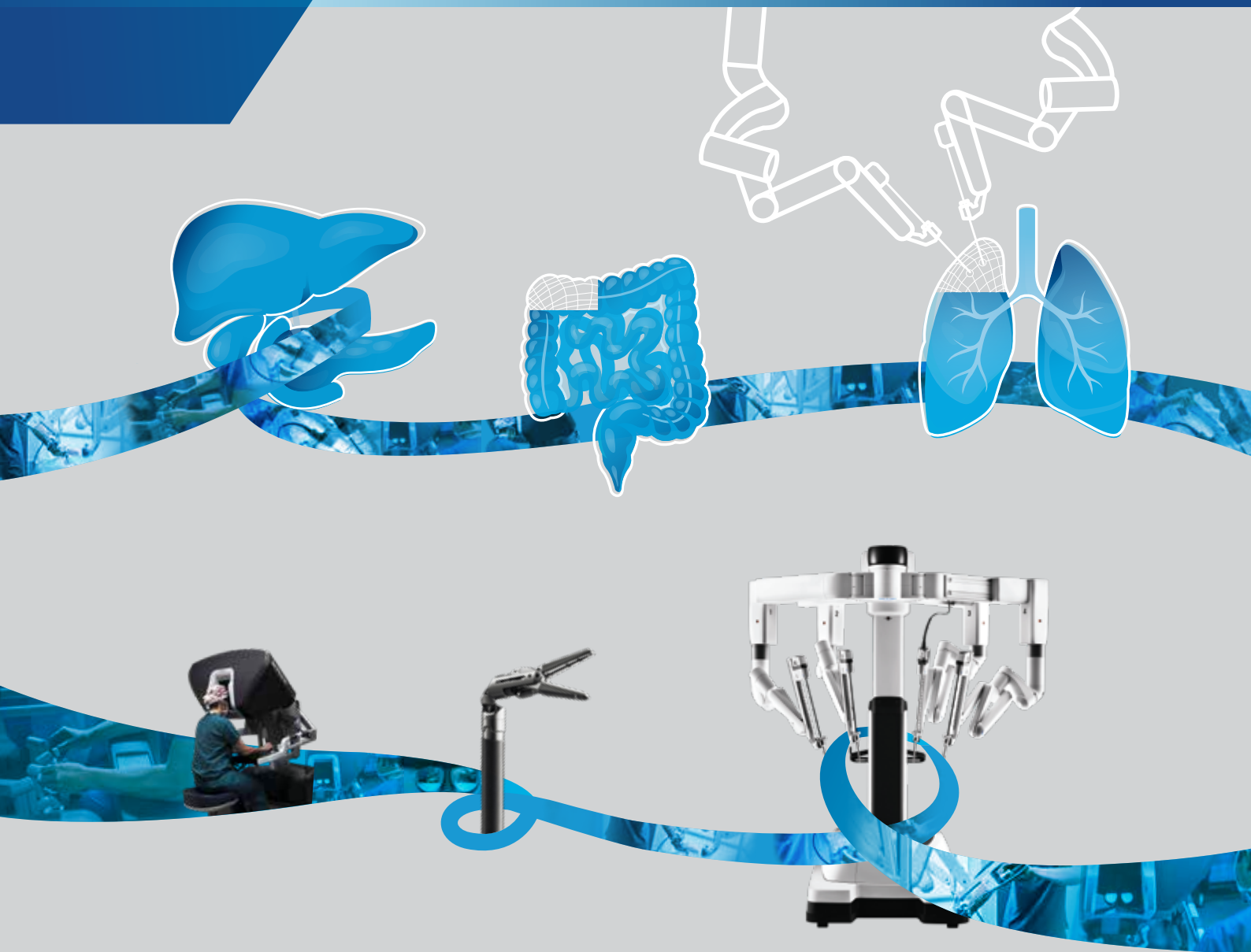
Education

- 2024 Certificate of da Vinci Technology Training as a Console Surgeon,** Royal Prince Alfred Surgical & Robotics Training Institute, Sydney, Australia
- 2014 Clinical Fellow in Endoscopy,** The Asia-Pacific Association for Gynecologic Endoscopy and Minimally Invasive Therapy, Taiwan
- 2009 Obstetrics and Gynecology,** Rajavithi Hospital, Thailand
- 2005 Doctor of Medicine,** Rangsit University, Thailand

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