

【新聞稿】全港首間私家醫院引入 HUGO 機械臂手術系統

香港港安醫院—荃灣推出全新微創手術套餐 提升泌尿外科手術精準治療



(香港，2026 年 5 月 1 日) — 香港港安醫院—荃灣宣布正式引入全球先進的 **HUGO™ 機械臂手術系統**，成為全港首間私家醫院應用此系統於臨床手術，並率先推出兩項微創手術套餐，包括「機械臂輔助部分/全腎切除手術套餐」及「機械臂輔助前列腺切除手術套餐」。新系統結合人工智能、高解像影像與機械臂技術，進一步提高手術精準度、加快病人康復速度，為病人提供創傷更小、療效更高的新一代治療選擇，標誌著本港私營醫療在智能微創領域的重要里程碑。

機械臂手術系統的引入，標誌著香港港安醫院—荃灣在微創外科領域邁向新里程。相較傳統腹腔鏡手術，機械臂手術可為醫生提供更穩定和靈活的操作平台，尤其在處理位於體內深層或結構複雜的器官時，更能大幅提高手術的精準度與安全性。

Hugo™ RAS 系統採用模組化設計，突破傳統一體化機械臂系統無法靈活移動的限制。其四條機械臂分別安裝於獨立推車上，能靈活移動及定位，方便於不同手術室間轉移，滿足各類複雜手術的需求。同時，系統配備開放式操控台，讓其他醫護人員可即時觀察手術過程中的 3D 立體影像，促進團隊協作，並進一步發揮微創手術的優勢。

Hugo™ RAS 現已於全球超過 20 個國家廣泛應用，有效提升手術的整體安全性與治療成效。系統配備 32 吋 3DHD 人體工學寬屏幕顯示器，改善醫生的操作視野，減輕長時間手術所帶來的身體疲勞，同時支援與手術團隊及病人之間的即時通訊，進一步提升手術流程的協調與效



率。

透過此系統，醫生能以更高精準度完成複雜手術，尤其在泌尿外科如腎臟及前列腺的微創手術中，能大幅減低出血風險、縮小傷口、保護神經及器官功能，進一步降低術後併發症風險與住院時間。病人術後一般可於第三至四日出院，康復速度明顯提升。相較於傳統的開放式或腹腔鏡手術，採用機器人輔助手術的病人通常恢復速度更快，不僅住院天數可望縮短，整體康復期亦大幅減少，有助病人更早重返日常生活。

香港港安醫院—荃灣推出的「機械臂部分/全腎切除手術套餐」適用於腎腫瘤及其他腎臟疾病患者，結合 3D 導航影像及機械臂的靈活操作，有助醫生更準確地分辨及切除病變組織，同時保腎臟功能。

針對前列腺癌或其他前列腺相關疾病的「機械臂前列腺切除手術套餐」，則強調神經功能保留與術後生活質素的維護。系統可協助醫生於手術過程中清晰識別關鍵神經及血管，減少術後尿失禁或性功能影響的風險。

為確保新技術的應用安全與手術效果，香港港安醫院—荃灣早前已為外科醫療團隊安排一系列專業培訓，涵蓋系統操作、臨床實踐及術中應變處理，特別針對泌尿外科等常見應用範疇，確保團隊能熟練掌握新平台並提供一貫高水平的醫療服務。

香港港安醫院—荃灣院長凌宏寶先生表示：「是次成為全港首間私家醫院引入 HUGO™ 機械臂系統，是醫院在外科技術創新方面的重要一步，亦反映對提升病人治療體驗的承諾。未來，醫院將積極拓展機械臂技術於其他專科應用，並持續投入資源於醫療創新，為香港市民提供與國際接軌的高品質醫療服務。」

[Press Release] First Private Hospital in Hong Kong Adopts HUGO™ Robotic-Assisted Surgery System
Hong Kong Adventist Hospital – Tsuen Wan Launches New Minimally Invasive Surgical Packages to Enhance
Urological Precision Surgery

(Hong Kong, 1 May 2026) — Hong Kong Adventist Hospital – Tsuen Wan has officially introduced the globally advanced **HUGO™ Robotic-Assisted Surgery (RAS) System**, becoming the **first private hospital in Hong Kong** to utilize this cutting-edge technology in clinical surgeries. The hospital also announced the launch of two robotic-assisted minimally invasive surgical packages: the **Robotic-Assisted Partial / Total Nephrectomy Package** and the **Robotic-Assisted Prostatectomy Package**.



This next-generation system integrates artificial intelligence, high-definition imaging, and robotic precision to enhance surgical accuracy, accelerate patient recovery, and offer a less invasive yet more effective treatment option. The adoption of the HUGO™ RAS system marks a significant milestone in the advancement of smart minimally invasive surgery within Hong Kong's private healthcare sector.

Advancing Minimally Invasive Surgery with Robotic Precision

The introduction of the robotic-assisted system represents a new chapter in the hospital's minimally invasive surgical capabilities. Compared to conventional laparoscopic surgery, robotic-assisted surgery offers surgeons a more stable and flexible operating platform—particularly beneficial when operating on deep-seated or anatomically complex organs—thus significantly improving both surgical precision and patient safety.

The HUGO™ RAS System features a modular design, overcoming the mobility limitations of traditional monolithic robotic platforms. Each of its four robotic arms is mounted on independent carts, allowing flexible positioning and easy transfer between operating theatres. The system also comes equipped with an open console interface, enabling the wider surgical team to observe the 3D surgical field in real time, enhancing intraoperative collaboration and maximizing the advantages of minimally invasive techniques.

Currently adopted in over 20 countries worldwide, the HUGO™ RAS system has demonstrated significant improvements in surgical safety and overall clinical outcomes. It features a 32-inch 3DHD ergonomic widescreen display, enhancing the surgeon's field of vision, reducing physical fatigue during prolonged procedures, and supporting real-time communication between the surgical team and the patient, thus streamlining workflow and operational efficiency.

Improved Outcomes in Urological Surgery

The system enables surgeons to perform complex procedures with greater precision—particularly in urological surgeries such as nephrectomies and prostatectomies—by minimizing blood loss, reducing incision size, preserving neural and organ function, and decreasing postoperative complications and length of stay. Most patients are expected to be discharged by postoperative day 3 to 4, reflecting a markedly faster recovery compared to traditional open or laparoscopic procedures. Robotic-assisted surgery typically results in shorter hospital stays and a quicker return to daily life.

The **Robotic-Assisted Partial / Total Nephrectomy Package** is designed for patients with renal tumors or other kidney conditions. It combines 3D navigation imaging with the precise maneuverability of the robotic arms, enabling surgeons to more accurately identify and excise pathological tissue while preserving maximum renal function.



The Robotic-Assisted Prostatectomy Package, targeting prostate cancer and other related conditions, focuses on nerve-sparing techniques and postoperative quality of life. The system aids surgeons in clearly identifying critical nerves and blood vessels during the procedure, helping to reduce the risk of postoperative urinary incontinence and sexual dysfunction.

Commitment to Clinical Excellence and Training

To ensure safe implementation and optimal outcomes, Hong Kong Adventist Hospital – Tsuen Wan has already conducted a series of comprehensive training programs for its surgical teams. These include system operations, clinical applications, and intraoperative contingency management—particularly for urological procedures—ensuring the team is fully proficient with the new platform and continues to deliver the hospital's high standards of care.

Mr. Alex Lan, the president and CEO of Hong Kong Adventist Hospital – Tsuen Wan, stated:

"Becoming the first private hospital in Hong Kong to adopt the HUGO™ Robotic-Assisted Surgery System is a significant step forward in our commitment to surgical innovation. It reflects our dedication to enhancing the patient experience and clinical outcomes. Moving forward, we will actively explore the application of robotic-assisted technology in other specialties and continue investing in medical innovation to provide world-class healthcare services aligned with international standards."

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