

KFSH Advances Precision Surgery Through Patient-Specific Planning and Multidisciplinary Care

NY, UNITED STATES, September 11, 2026 /EINPresswire.com/ -- King Faisal Specialist Hospital and Research Centre (KFSH) is applying patient-specific planning and minimally invasive technology at a scale demonstrated by 882 organ transplants in 2024 and more than 1,700 robotic living-donor liver resections. This experience provides a measurable foundation for precision surgery in complex cases where small differences in access, angle and tissue preservation can change the clinical outcome.



The approach begins before the patient enters the operating room. Radiologists, surgeons, oncologists, anaesthesiologists, pathologists, critical-care specialists, nurses and perioperative teams evaluate the disease, the patient's anatomy and underlying medical conditions to develop an individualized surgical strategy.

This model was demonstrated in a complex case at KFSH Jeddah involving a 74-year-old patient with separate pancreatic and liver malignancies. The clinical team combined a pancreaticoduodenectomy, partial liver resection and reconstruction of the digestive and biliary pathways in a single operation.

Treating both malignancies together required careful planning in anatomically sensitive areas, where small deviations could affect major blood vessels, biliary structures and surrounding organs. High-definition three-dimensional visualization and advanced instrument control enabled the surgical team to work within confined spaces and complete the operation without converting to open surgery.

KFSH applies the same principle across organ transplantation, oncology, neurosurgery and other

highly specialized fields. Digital modelling, intraoperative visualization and minimally invasive platforms allow clinical teams to plan access more carefully, protect critical structures and tailor procedures to disease location and patient anatomy.

KFSH describes precision surgery as an integrated clinical discipline in which technology strengthens, rather than replaces, multidisciplinary expertise and patient-specific decision-making. The discipline is among the areas the hospital will present at the C3 US NYC Davos of Healthcare™ Summit 2026, to be held on September 14 in New York City.

King Faisal Specialist Hospital and Research Centre has been ranked first in the Middle East and Africa and 12th globally among the world's top 250 academic medical centers for 2026. It was also recognized as the most valuable healthcare brand in the Kingdom and the Middle East for 2026, according to Brand Finance, and listed by Newsweek among the World's Best Hospitals, World's Best Smart Hospitals, and World's Best Specialized Hospitals for 2026.

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