

In Riyadh, Surgeons at KFSHRC Push the Limits of Robotic Organ Transplantation

RYIADH, SAUDI ARABIA, October 10, 2025 /EINPresswire.com/ -- Robotic systems, once limited to assisting surgeons, now enable greater precision in some of the region's most complex transplant procedures. At [KFSHRC](#), they are increasingly used in heart, liver, and kidney transplants to reduce trauma, shorten recovery, and improve surgical control. For selected kidney donors, robots perform both organ removal and transplantation, a sign of how deeply technology is shaping modern surgery at the hospital.



The hospital has steadily built what experts describe as one of the most comprehensive robotic transplantation programs in the Middle East. Surgeons now perform entire procedures, from donor organ removal to recipient implantation, through minimally invasive robotic systems that reduce trauma, shorten recovery time, and lower postoperative risk. For selected kidney donors, robots handle the full extraction and transplant process, a shift that reflects how deeply automation has been woven into the hospital's surgical infrastructure.

One recent case, that of an eight-year-old boy whose failing liver had deprived him of much of his childhood, has become emblematic of this transformation. Using a robotic-assisted platform, the surgical team completed a partial liver transplant through incisions no larger than a few centimeters. The child was discharged within two weeks, half the usual recovery period, returning home with a new organ and a renewed sense of normalcy.

Through its participation in the Global Health Exhibition 2025, scheduled for October 27 to 29 at the Riyadh Front Exhibition & Conference Center, KFSHRC invites healthcare professionals and the public to explore its latest breakthroughs, including robotic surgery techniques, T-cell therapy, preimplantation genetic diagnosis, and its comprehensive multi-organ transplant portfolio. The hospital will also showcase its pharmaceutical manufacturing and translational research capabilities, underscoring its integrated approach to innovation and clinical

excellence.

KFSHRC has been ranked first in the Middle East and North Africa and 15th globally among the world's top 250 Academic Medical Centers for the third consecutive year. It is recognized by Brand Finance (2025) as the most valuable healthcare brand in Saudi Arabia and the Middle East, and is listed among Newsweek's World's Best Smart Hospitals (2025).

Riyadh

King Faisal Specialist Hospital & Research Centre

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