

The Children's Hospital Los Angeles/University of Southern California Pediatric Robotic Surgery Program is the only dedicated pediatric robotic surgery program in California, and the largest in the southwestern United States. Children's Hospital is affiliated with the Keck School of Medicine of the University of Southern California (USC) and is one of the few children's hospitals that provides advanced minimally invasive surgery for children.

Robotic surgery using the da Vinci Surgical System from Intuitive Surgical allows surgeons at CHLA to perform minimally invasive reconstructive procedures with tiny keyhole incisions, through the use of 3-D visualization, intuitive computer-enhanced motion control and increased range of motion.

Benefits include:

- Smaller incisions
- Shorter hospital stays
- Decreased postoperative pain medication requirements
- Improved cosmetic appearance after surgery

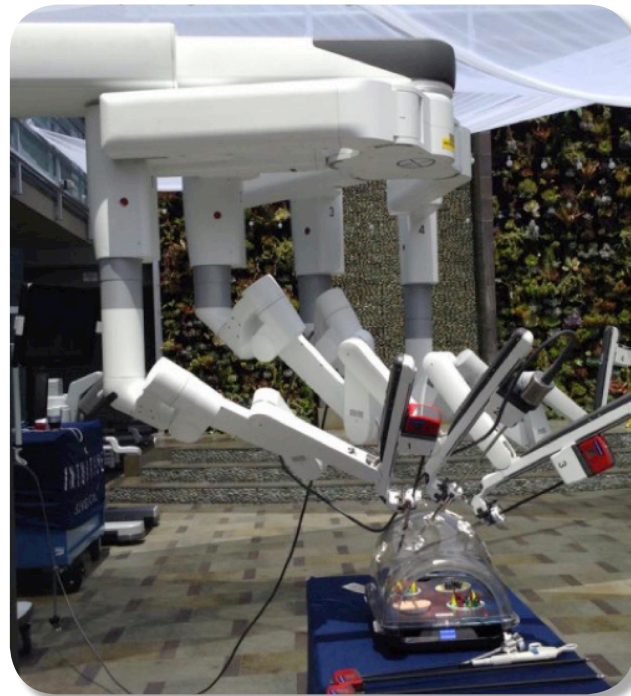
Robotic surgery is used for:

- Ureteropelvic junction (UPJ) obstruction—pyeloplasty
- Vesicoureteral reflux (VUR)—ureteral reimplantation
- Kidney reconstructive surgery, including partial nephrectomy
- Ureter reconstructive surgery
- Bladder reconstructive surgery
- Pelvic organ removal and reconstruction

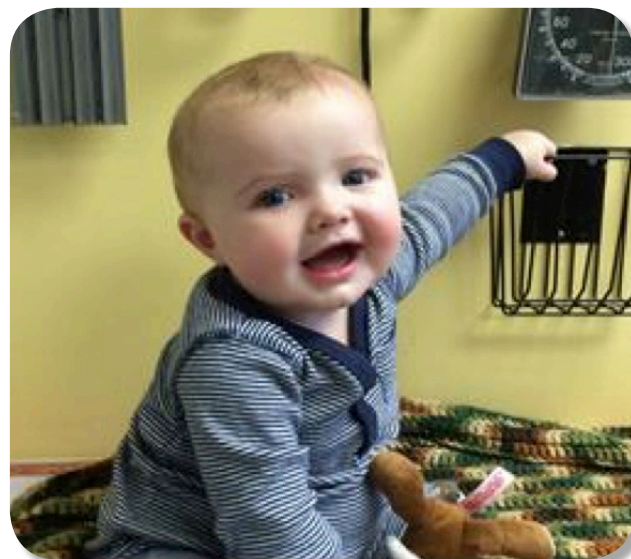
Patients are discharged home sooner than with open surgery (usually after only one night in the hospital), and they require fewer pain medications than children who underwent open surgery.¹

Surgeons at Children's Hospital have performed more than 200 robotic surgeries on children, making the program one of the most experienced centers for pediatric robotic surgery in the U.S. The program also serves as a pediatric robotic surgery research and training center for pediatric surgical specialists.

Pediatric robotic surgeons at Children's Hospital include chief of the Division of Urology, Roger De Filippo, MD; Andy Chang, MD; Steve Kim, MD; Scott Sparks, MD; and Paul Kokorowski, MD, MPH, who serves as the director of the Children's Hospital Los Angeles/USC Pediatric Robotic Surgery Program.



da Vinci Robot



"When Dr. Kokorowski showed me the pictures of the previous surgeries and I saw that the incisions were so small ... I was so happy with the results."—Parent of child who had robot-assisted kidney surgery at CHLA

1. Behan JW, Kim SS, Dorey FJ, De Filippo RE, Chang AY, Hardy BE, and Koh CJ. "Human Capital Gains Associated with Robotic-Assisted Laparoscopic Pyeloplasty in Children Compared to Open Pyeloplasty." *Journal of Urology*, October 2011 (in press).

Pediatric Robotic Surgery Program

Paul J. Kokorowski, MD, MPH
Director, Pediatric Robotic Surgery Program, CHLA
Assistant Professor, Urology,
Keck School of Medicine of USC

Roger E. De Filippo, MD, FAAP
Chief, Division of Urology, CHLA
Associate Professor, Urology,
Keck School of Medicine of USC

Steve S. Kim, MD, MSCE
Director, Health Systems Innovation and Clinical Outcomes Program, CHLA
Assistant Professor, Urology,
Keck School of Medicine of USC

Andy Y. Chang, MD, FACS, FAAP
Vice Chief, Division of Pediatric Urology and Director, Genitourinary Oncology Program, CHLA
Assistant Professor, Urology,
Keck School of Medicine of USC

Scott Sparks, MD
Director, Resident Education Program and Surgical Director, Comprehensive Stone Program, CHLA
Assistant Professor, Urology, Keck School of Medicine of USC



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Local Offices:

Arcadia
Bakersfield
Long Beach
Orange County

Oxnard - Ventura
Pasadena
Pomona

Santa Monica
South Bay
Tarzana/Encino

Thousand Oaks
Torrance
Valencia

CHLA.org/UROLOGY

Children's Hospital Los Angeles
4650 Sunset Blvd., #114
Los Angeles, CA 90027

Robotic Surgery Research Publications from Children's Hospital

Kim PH, Patil M, Kim SS, Dorey FJ, De Filippo RE, Chang AY, Hardy BE, Gill IS, Desai MM, and Koh CJ. "Early Comparison of Nephrectomy Options in Children (Open, Transperitoneal Laparoscopic, Laparo-Endoscopic Single Site (LESS), and Robotic Surgery)." *British Journal of Urology International*, 2011 (in press).

Kokorowski P, Chandrasoma S, De Filippo RE, Chang AY, Peters CA, and Koh CJ. "Pediatric Robot-Assisted Laparoscopic Pyeloplasty Using a Transmesenteric Approach." *Journal of Endourology Part B, Videourology*. Vol. 24, Issue 4, August 31, 2010. doi: 10.1089/vid.2010.0044

Yamzon J, Kokorowski P, De Filippo RE, Chang AY, Hardy BE, and Koh CJ. "Pediatric Robotic-assisted Laparoscopic Excision of

Urachal Cyst and Bladder Cuff (Techniques in Endourology)." *Journal of Endourology* 22(10): 2385-8, 2008, and *Journal of Endourology Part B, Videourology*, Vol. 24, Issue 1, March 1, 2010. doi: 10.1089/vid.2009.0052

Behan JW, Kim SS, Dorey FJ, De Filippo RE, Chang AY, Hardy BE, and Koh CJ. "Human Capital Gains Associated with Robotic-Assisted Laparoscopic Pyeloplasty in Children Compared to Open Pyeloplasty." *Journal of Urology*, October 2011 (in press).

Chandrasoma S, Kokorowski P, Peters CA, and Koh CJ. "Straight-arm Positioning and Port Placement for Pediatric Robotic-Assisted Laparoscopic Renal Surgery." *Journal of Robotic Surgery* 4:29-32, 2010.



About Children's Hospital Los Angeles

Children's Hospital Los Angeles is one of only 12 children's hospitals in the nation—and the only hospital in California—to be named to the elite Honor Roll of children's hospitals by U.S. News & World Report for 2015-16. The magazine ranks CHLA's Division of Urology among the top 10 pediatric urology programs in the country. Founded in 1901, Children's Hospital is acknowledged worldwide for its leadership in pediatric and adolescent health. CHLA is also home to The Saban Research Institute, one of the largest and most productive pediatric research facilities in the United States, and is one of America's premier teaching hospitals, affiliated with the Keck School of Medicine of the University of Southern California since 1932.