

We Treat Kids Better

The Children's Hospital Los Angeles/University of Southern California (USC) 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 USC, and is one of the few children's hospitals that provide advanced minimally invasive surgery to children for their pediatric surgical conditions.

Robotic surgery using the da Vinci Surgical System from Intuitive Surgical allows the pediatric robotic surgeons at Children's Hospital to perform minimally invasive reconstructive procedures in children. The 3-D visualization, intuitive computer-enhanced motion control and increased range of motion allow for delicate surgical procedures in children to be performed with tiny keyhole incisions.

The benefits of robotic surgery 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
- Cholecystectomy—gallbladder removal
- Nissen fundoplication—esophageal reflux 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 use less pain medications than children who underwent open surgery.¹

Surgeons at Children's Hospital have performed more than 200 robotic surgeries in 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 pediatric urologists Andy Chang, MD, Roger De Filippo, MD, Steve Kim, MD, and Chester Koh, MD, who serves as the director of the Children's Hospital Los Angeles/USC Pediatric Robotic Surgery Program, as well as pediatric surgeon Cathy Shin, MD, and pediatric gynecologist Claire Templeman, MD.



Natalie (below) had robot-assisted kidney surgery in 2008 at Children's Hospital Los Angeles. "The entire experience was amazing, for Natalie and for us," says her mom, Lara.



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

Pediatric Urology

Chester J. Koh, MD, FACS, FAAP
Director, Robotic Surgery Program
Assistant Professor, Urology
Keck School of Medicine, USC

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

Andy Y. Chang, MD, FACS, FAAP
Assistant Professor, Urology
Keck School of Medicine, USC

Steve S. Kim, MD, MSCE
Assistant Professor, Urology
Keck School of Medicine, USC

Pediatric Surgery

Cathy Shin, MD
Assistant Professor, Surgery
Keck School of Medicine, USC

Pediatric Gynecology

Claire Templeman, MD
Assistant Professor, OB/GYN
Keck School of Medicine, USC



*Chester J. Koh,
MD, FACS, FAAP*

Local Offices:

Pediatric Urology

Bakersfield	Santa Monica
Beverly Hills	Tarzana-Encino
Lancaster	Thousand Oaks
Long Beach	Torrance
Orange County	Valencia
Oxnard-Ventura	West Covina
Pasadena	West Hills
Pomona	

Pediatric Surgery

Arcadia
Encino
Long Beach
Thousand Oaks
West Los Angeles

Appointments

Pediatric Urology – 323-361-2247
Pediatric Surgery/Pediatric Gynecology – 323-361-2322

Websites

CHLA.org/ROBOTICSURGERY
CHLA.org/UROLOGY
CHLA.org/PEDIATRICSURGERY

Children's Hospital Los Angeles
4650 Sunset Blvd.
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).

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

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

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 11 children's hospitals in the nation—and the only hospital in California—to be named to the elite Honor Roll of children's hospitals in the *U.S. News & World Report* rankings for 2011-12. Founded in 1901, Children's Hospital is one of the nation's leading children's hospitals and is acknowledged worldwide for its leadership in pediatric and adolescent health. Children's Hospital Los Angeles 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.