

# Stanford

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## Stephanie Chao

Assistant Professor of Surgery (Pediatric Surgery) at the Stanford University Medical Center

Surgery - Pediatric Surgery

### CLINICAL OFFICES

- **Pediatric General Surgery**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Hadley Monin - Administrative Assistant

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### Bio

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### CLINICAL FOCUS

- Pediatric Surgery
- Chest Wall Deformities
- Minimal Access Surgery
- Neonatal Surgery
- Trauma
- Adolescent Weight Management and Bariatric Surgery
- Congenital Diaphragmatic Hernia
- Pediatric Biliary Disease
- Anorectal Malformations

### ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Surgery - Pediatric Surgery
- Member, Maternal & Child Health Research Institute (MCHRI)

### ADMINISTRATIVE APPOINTMENTS

- Program Director, Chest Wall Program, Stanford Children's Health, (2016- present)
- Trauma Medical Director, Lucile Packard Children's Hospital at Stanford, (2016- present)
- Course Director, Division of Pediatric Surgery Continuing Medical Education, (2015- present)
- Surgical Representative, LPCH Operating Room Local Improvement Team (LIT), (2013- present)
- Resident Representative, Stanford Graduate Medical Education Committee, (2008-2010)

### HONORS AND AWARDS

- Asian Pacific American Heritage Month Honoree, NBC, Asian Americans for Community Involvement (AACI) (2019)

- Best Abstract Award, IRCAD France - Research Institute against Digestive Cancer (2019)
- Coolest Tricks Award, International Pediatric Endosurgery Group (IPEG) (2019)
- Hepatitis Testing Innovation Contest Commendation Award, European Association for the Study of the Liver(EASL)/World Health Organization (2016)
- Lloyd Nyhus Travel Scholar, US International Surgical Society (2015)
- Hilary Sanfey Outstanding Resident (awarded to most outstanding female surgery resident in the US), Association of Women Surgeons (2012)
- Best Poster Presentation, SNMA Annual Medical Education Conference (2011)
- Samuel L. Kountz Humanitarian Award, Stanford University (2009)
- Residents in Radiology Executive Council Award (Outstanding Poster), American Roentgen Ray Society (2005)
- Research Fellowship, University of California Dean's Research Grant (2003)
- Research Scholarship, Child Neurology Foundation (2003)
- Aces for Campus Excellence, Doublemint (2002)
- Phi Beta Kappa, Phi Beta Kappa Society (2002)
- Research fellowship, Howard Hughes Medical Institute Summer Research Fellowship (2001)

### **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, Pediatric Trauma Society (2016 - present)
- Fellow, American Academy of Pediatrics (2014 - present)
- Member, American Pediatric Surgical Association (2014 - present)
- Member, Association of Women Surgeons (2013 - present)
- Board of Directors, National Resident Matching Program (NRMP) (2010 - 2012)
- Invited Consultant, World Health Organization (WHO), Western Pacific Region - Laos (2010 - 2010)
- Advisory Committee, Immunization Action Coalition – Birth Dose Project (2009 - present)
- Advisory Committee, California Viral Hepatitis Clinical Task Force (2009 - present)
- Taskforce Member, National Hepatitis B Task Force (2009 - present)
- Advisory Committee, Viral Hepatitis and Liver Cancer Prevention Control Act 2009 (US Congressional Bill# H.R. 3974) (2009 - 2009)
- Fellow, American College of Surgeons (2006 - present)

### **PROFESSIONAL EDUCATION**

- Board Certification: Pediatric Surgery, American Board of Surgery (2016)
- Fellowship: Stanford University School of Medicine (2015) CA
- Board Certification: General Surgery, American Board of Surgery (2013)
- Residency: Stanford University School of Medicine (2013) CA
- Medical Education: University of California San Francisco (2006) CA

### **COMMUNITY AND INTERNATIONAL WORK**

- Jade Ribbon Campaign, China, Vietnam, Laos, Korea, Philippines
- Hep B Moms, China, Vietnam, Laos, Korea, Philippines

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Chao's research focuses on preventing surgical diseases minimizing the impact of surgery. She works with the Asian Liver Center towards the global eradication of hepatitis B, the leading cause of liver cancer and liver disease globally. Dr. Chao helped launch the Jade Ribbon Campaign in 2001 to improve public and physician awareness about hepatitis B. Her work has been supported by the US Centers for Disease Control and the American Cancer Society. The Asian Liver Center also works in collaboration with the World Health Organization to improve screening and immunization strategies in Asia. For more information, visit: <http://liver.stanford.edu> AND <http://hepbmoms.org>

Dr. Chao also serves as the Trauma Medical Director for Stanford Children's Health. Her research and interests include preventing childhood injury, the leading cause of death among children.

Dr. Chao is the Director of the Stanford Chest Wall Program. She is interested in studying new ways to treat and image patients with pectus excavatum and pectus carinatum.

Dr. Chao is also working with pediatric anesthesiologists to find ways to minimize anxiety and discomfort associated with surgery. This includes the use of virtual reality to decrease perioperative anxiety.

Other research interests: pediatric surgery, neonatal surgery, congenital diaphragmatic hernia outcomes, pediatric obesity, minimal access surgery

### CLINICAL TRIALS

- Longitudinal Virtual Reality Use in Pediatric Surgical Procedures, Recruiting

### PROJECTS

- Chronic Hepatitis B and Liver Cancer control - Asian Liver Center, Stanford University
- Chest Wall Deformities: 3D imaging
- Pediatric Trauma Outcomes
- Congenital Diaphragmatic Hernia - Predictors of Surgical Outcomes
- Pediatric Per Oral Endoscopic Myotomy - Lucile Packard Children's Hospital
- Evaluation of laparoscopic assisted TAP blocks

## Publications

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### PUBLICATIONS

- **Correction to: Delayed appearance of mature ganglia in an infant with an atypical presentation of total colonic and small bowel aganglionosis: a case report.** *BMC pediatrics*  
Salimi Jazi, F., Chandler, J. M., Thorson, C. M., Sinclair, T. J., Hazard, F. K., Kerner, J. A., Dutta, S., Dunn, J. C., Chao, S. D.  
2019; 19 (1): 172
- **Delayed appearance of mature ganglia in an infant with an atypical presentation of total colonic and small bowel aganglionosis: a case report** *BMC PEDIATRICS*  
Jazi, F., Chandler, J. M., Thorson, C. M., Sinclair, T. J., Hazard, F. K., Kerner, J. A., Dutta, S., Dunn, J. Y., Chao, S. D.  
2019; 19
- **Delayed appearance of mature ganglia in an infant with an atypical presentation of total colonic and small bowel aganglionosis: a case report.** *BMC pediatrics*

- Salimi Jazi, F., Chandler, J. M., Thorson, C. M., Sinclair, T. J., Hazard, F. K., Kerner, J. A., Dutta, S., Dunn, J. C., Chao, S. D.  
2019; 19 (1): 93
- **Firearm Legislation Stringency and Firearm-Related Fatalities among Children in the United States.** *Journal of the American College of Surgeons*  
Madhavan, S., Taylor, J. S., Chandler, J. M., Staudenmayer, K. L., Chao, S. D.  
2019
  - **Letter to the Editor: Early Consequences of Pectus Excavatum Surgery on Self-Esteem and General Quality of Life** *WORLD JOURNAL OF SURGERY*  
Darling, C., Chao, S., Ramamurthi, R., Tsui, B.  
2019; 43 (3): 963–64
  - **Management of hepatitis B infected pregnant women: a cross-sectional study of obstetricians.** *BMC pregnancy and childbirth*  
Chao, S. D., Cheung, C. M., Chang, E. T., Pei, A., So, S. K.  
2019; 19 (1): 275
  - **3D Optical Imaging for Pectus Excavatum Assessment.** *The Annals of thoracic surgery*  
Taylor, J. S., Madhavan, S., Szafer, D., Pei, A., Koppolu, R., Barnaby, K., Wall, J. K., Chao, S. D.  
2019
  - **Impact of licensed federal firearm suppliers on firearm-related mortality**  
Chao, S. D., Kastenber, Z. J., Madhavan, S., Staudenmayer, K.  
LIPPINCOTT WILLIAMS & WILKINS.2019: 123–27
  - **Algorithm for Calculating Haller Index for Pectus Excavatum Using 3-Dimensional Optical Scanning**  
Taylor, J. S., Szafer, D., Madhavan, S., Hasseini, S., Pei, A., Koppolu, R., Barnaby, K. D., Danzer, E., Wall, J. K., Chao, S.  
ELSEVIER SCIENCE INC.2018: S192
  - **Strict Firearm Legislation Is Associated with Lower Firearm-Related Fatalities among Children and Teens in the US**  
Chao, S. D., Madhavan, S.  
ELSEVIER SCIENCE INC.2018: E33–E34
  - **Impact of Licensed Federal Firearm Suppliers on Firearm-Related Mortality.** *The journal of trauma and acute care surgery*  
Chao, S. D., Kastenber, Z. J., Madhavan, S., Staudenmayer, K. L.  
2018
  - **A Simplified Method for Three-Dimensional Optical Imaging and Measurement of Patients with Chest Wall Deformities.** *Journal of laparoendoscopic & advanced surgical techniques. Part A*  
Szafer, D., Taylor, J. S., Pei, A., de Ruijter, V., Hosseini, H., Chao, S., Wall, J.  
2018
  - **A Simplified Method for Three-Dimensional Optical Imaging and Measurement of Patients with Chest Wall Deformities**  
Szafer, D., Taylor, J. S., Pei, A., de Ruijter, V., Hosseini, H., Chao, S., Wall, J.  
MARY ANN LIEBERT, INC.2019: 267–71
  - **Initial experience with peroral endoscopic myotomy for treatment of achalasia in children** *JOURNAL OF PEDIATRIC SURGERY*  
Kethman, W. C., Thorson, C. M., Sinclair, T. J., Berquist, W. E., Chao, S. D., Wall, J. K.  
2018; 53 (8): 1532–36
  - **Letter to the Editor: Early Consequences of Pectus Excavatum Surgery on Self-Esteem and General Quality of Life.** *World journal of surgery*  
Darling, C., Chao, S., Ramamurthi, R., Tsui, B.  
2018
  - **Pleomorphic myxoid liposarcoma in an adolescent with Li-Fraumeni syndrome.** *Pediatric surgery international*  
Sinclair, T. J., Thorson, C. M., Alvarez, E., Tan, S., Spunt, S. L., Chao, S. D.  
2017
  - **Initial experience with peroral endoscopic myotomy for treatment of achalasia in children.** *Journal of pediatric surgery*  
Kethman, W. C., Thorson, C. M., Sinclair, T. J., Berquist, W. E., Chao, S. D., Wall, J. K.  
2017

- **A multidisciplinary approach to laparoscopic sleeve gastrectomy among multiethnic adolescents in the United States.** *Journal of pediatric surgery*  
Jaramillo, J. D., Snyder, E., Farrales, S., Stevens, M., Wall, J. K., Chao, S., Morton, J., Pratt, J. S., Hammer, L., Shepard, W. E., Bruzoni, M.  
2017
- **A Multidisciplinary Approach to Laparoscopic Sleeve Gastrectomy Among Multiethnic Adolescents in the United States**  
Jaramillo, J. D., Snyder, E., Farrales, S., Wall, J. K., Chao, S., Hammer, L. D., Albanese, C., Morton, J. M., Bruzoni, M.  
ELSEVIER SCIENCE INC.2016: E153
- **Endoscopic Division of Duodenal Web Causing Near Obstruction in 2-Year-Old with Trisomy 21** *JOURNAL OF LAPAROENDOSCOPIC & ADVANCED SURGICAL TECHNIQUES*  
Wood, L. S., Kastenber, Z., Sinclair, T., Chao, S., Wall, J. K.  
2016; 26 (5): 413-417
- **Salvage of a failed open gastrocutaneous fistula repair with an endoscopic over-the-scope clip** *JOURNAL OF PEDIATRIC SURGERY CASE REPORTS*  
Jaramillo, J., Hyun, J., Abrajano, C., Koppolu, R., Chao, S., Hartman, G., Wall, J.  
2016; 8: 40-41
- **Multimodality Renal Failure in a Patient with OEIS Complex.** *AJP reports*  
Santoro, J. D., Chao, S., Hsieh, M. H., Lee, H. C.  
2015; 5 (2): e161-4
- **Medical training fails to prepare providers to care for patients with chronic hepatitis B infection.** *World journal of gastroenterology*  
Chao, S. D., Wang, B., Chang, E. T., Ma, L., So, S. K.  
2015; 21 (22): 6914-6923
- **Initial Results of Endoscopic Gastrocutaneous Fistula Closure in Children Using an Over-the-Scope Clip.** *Journal of laparoendoscopic & advanced surgical techniques. Part A*  
Wright, R., Abrajano, C., Koppolu, R., Stevens, M., Nyznyk, S., Chao, S., Bruzoni, M., Wall, J.  
2015; 25 (1): 69-72
- **Introduction of the Per-Oral Endoscopic Myotomy Technique to Pediatric Surgical Practice** *J Pediatr Surg Case Rep*  
Chao, S. D., Russo, M., Wright, R., Rivas, H., Wall, J. K.  
2014; 2 (6)
- **Introduction of the per-oral endoscopic myotomy technique to pediatric surgical practice** *Journal of Pediatric Surgery Case Reports*  
Chao, S., Russo, M., Wright, R., Rivas, H., Wall, J.  
2014
- **Intraoperative functional luminal imaging to assess esophagogastric junction distensibility during per-oral endoscopic myotomy in pediatric patients** *J Gastroint Dig Syst*  
Wright, R., Chao, S. D., Wall, J. K.  
2014; 4 (4)
- **Education and counseling of pregnant patients with chronic hepatitis B: perspectives from obstetricians and perinatal nurses in santa clara county, california.** *Asian Pacific journal of cancer prevention*  
Yang, E. J., Cheung, C. M., So, S. K., Chang, E. T., Chao, S. D.  
2013; 14 (3): 1707-1713
- **Low Levels of Knowledge and Preventive Practices Regarding Vertical Hepatitis B Transmission among Perinatal Nurses** *JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING*  
Chao, S. D., Cheung, C. M., Yang, E. J., So, S. K., Chang, E. T.  
2012; 41 (4): 494-505
- **The Jade Ribbon Campaign: A systematic, evidence-based public awareness campaign to improve Asian and Pacific Islander health** *J Comm in Healthcare*  
Chao, S. D., So, S. K.  
2011; 4 (1)
- **The Jade Ribbon Campaign: A Model Program for Community Outreach and Education to Prevent Liver Cancer in Asian Americans** *JOURNAL OF IMMIGRANT AND MINORITY HEALTH*  
Chao, S. D., Chang, E. T., Le, P. V., Prapong, W., Kiernan, M., So, S. K.

2009; 11 (4): 281-290

- **Eliminating the Threat of Chronic Hepatitis B in the Asian and Pacific Islander Community: A Call to Action** *ASIAN PACIFIC JOURNAL OF CANCER PREVENTION*  
Chao, S. D., Chang, E. T., So, S. K.  
2009; 10 (3): 507-512
- **Short waitlist time does not adversely impact outcome following liver transplantation for hepatocellular carcinoma** *AMERICAN JOURNAL OF TRANSPLANTATION*  
Chao, S. D., Roberts, J. P., Farr, M., Yao, F. Y.  
2007; 7 (6): 1594-1600
- **Anomalies of the corpus callosum: An MR analysis of the phenotypic spectrum of associated malformations** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Hetts, S. W., Sherr, E. H., Chao, S., Gobuty, S., Barkovich, A. J.  
2006; 187 (5): 1343-1348
- **Single infusion of myeloid progenitors reduces death from *Aspergillus fumigatus* following chemotherapy-induced neutropenia** *BLOOD*  
Bitmansour, A., Cao, T. M., Chao, S., Shashidhar, S., Brown, J. M.  
2005; 105 (9): 3535-3537
- **Central nervous system aspergillosis in an immunocompetent patient: cure in a hospice setting with very high-dose itraconazole.** *The American journal of hospice & palliative care*  
Palanisamy, A., Chao, S. D., Fouts, M., Kerr, D.  
2005; 22 (2): 139-144
- **Lack of drug interaction conformity in commonly used drug compendia for selected at-risk dermatologic drugs** *AMERICAN JOURNAL OF CLINICAL DERMATOLOGY*  
Chao, S. D., Maibach, H. I.  
2005; 6 (2): 105-111