

Stanford



Stephen Shew

Clinical Professor, Surgery - Pediatric Surgery

CLINICAL OFFICES

- **Pediatric General Surgery**

300 Pasteur Dr Rm M116

Alway Bldg

Stanford, CA 94305

Tel (650) 723-6439 **Fax** (650) 725-5577

- **Pediatric General Surgery Clinic**

730 Welch Rd

MC 5883 2nd Fl

Palo Alto, CA 94304

Tel (650) 723-4800 **Fax** (650) 724-5344

- **Stanford Children's Health**

1100 Van Ness Ave 7th Fl

San Francisco, CA 94109

Tel (415) 600-0770 **Fax** (650) 725-5577

Bio

CLINICAL FOCUS

- Pediatric Surgery
- Neonatal Surgery
- Pectus Excavatum
- Pectus Carinatum
- Inflammatory Bowel Disease
- Minimally Invasive Surgery
- Anorectal Malformations
- Congenital Diaphragmatic Hernia
- Congenital Pulmonary Airway Malformations
- Hirschsprung's Disease

ACADEMIC APPOINTMENTS

- Clinical Professor, Surgery - Pediatric Surgery

- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director of Surgical Quality, Lucile Packard Stanford Children's Hospital, (2017- present)
- Pediatric NSQIP Surgeon Champion, Lucile Packard Stanford Children's Hospital, (2017- present)
- Interim Chief, Pediatric Surgical Division, UCLA Mattel Children's Hospital, (2016-2017)
- Pediatric NSQIP Surgeon Champion, UCLA Mattel Children's Hospital, (2014-2017)
- Director of Pediatric Surgical Quality, UCLA Mattel Children's Hospital, (2012-2017)
- Children's Oncology Group, Surgical RI, UCLA Mattel Children's Hospital, (2006-2017)
- Director of Pediatric Trauma, UCLA Mattel Children's Hospital, (2006-2017)

HONORS AND AWARDS

- Top Doctors in US, Castle Connolly (2015-pres)
- Super Doctors in Southern California, Super Doctors (2015-2017)
- Rosenkrantz Award for Best Clinical Paper (role as senior author), Surgical Section of the American Academy of Pediatrics (2014)
- Award of Recognition for Pediatric Trauma, City of Los Angeles (2010)
- member, Society of University Surgeons (2010)
- Fellow, American Association for the Surgery of Trauma (2009)
- Career Development Award K-08, NIH (2006-2011)
- Fellow, American College of Surgeons (2006)
- Fellow, American Academy of Pediatrics (2004)
- Award for Teaching Excellence, Baylor College of Medicine (2002)
- Best Presentation in Experimental Research, Canadian Association of Pediatric Surgeons (1998)
- Robert H. Bartlett Award for Best Research Presentation, Extracorporeal Life Support Organization (1998)

PROFESSIONAL EDUCATION

- Fellowship, University California, Los Angeles , Graduate Program in Translational Investigation (K30) (2008)
- Board Certification: Pediatric Surgery, American Board of Surgery (2006)
- Fellowship: University of Missouri (2004) MO
- Board Certification: General Surgery, American Board of Surgery (2003)
- Residency: Baylor College of Medicine Surgery Residency (2002) TX
- Fellowship, USDA Children's Nutrition Research Center, Baylor College of Medicine - Stable Isotope Laboratory , Maternal & Infant Nutrition (T32) (1999)
- Medical Education: Baylor College of Medicine Registrar (1995) TX

Research & Scholarship

CLINICAL TRIALS

- Transanastomotic Tube for Proximal Esophageal Atresia With Distal Tracheoesophageal Fistula Repair, Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Surgery (Fellowship Program)

Publications

PUBLICATIONS

- **Impact of Clinical Factors on the Intestinal Microbiome in Infants With Gastroschisis.** *JPEN. Journal of parenteral and enteral nutrition*
Wu, A. J., Lee, D. J., Li, F. n., Tobin, N. H., Aldrovandi, G. M., Shew, S. B., Calkins, K. L.
2020
- **Intravenous Fish Oil and Serum Fatty Acid Profiles in Pediatric Patients With Intestinal Failure-Associated Liver Disease** *JOURNAL OF PARENTERAL AND ENTERAL NUTRITION*
Ong, M. L., Venick, R. S., Shew, S. B., Dunn, J. Y., Reyen, L., Grogan, T., Calkins, K. L.
2019; 43 (6): 717–25
- **Long-Term Outcomes in Children With Intestinal Failure-Associated Liver Disease Treated With 6 Months of Intravenous Fish Oil Followed by Resumption of Intravenous Soybean Oil** *JOURNAL OF PARENTERAL AND ENTERAL NUTRITION*
Wang, C., Venick, R. S., Shew, S. B., Dunn, J. Y., Reyen, L., Gou, R., Calkins, K. L.
2019; 43 (6): 708–16
- **Intravenous Fish Oil and Serum Fatty Acid Profiles in Pediatric Patients With Intestinal Failure-Associated Liver Disease.** *JPEN. Journal of parenteral and enteral nutrition*
Ong, M. L., Venick, R. S., Shew, S. B., Dunn, J. C., Reyen, L., Grogan, T., Calkins, K. L.
2019
- **Long-Term Outcomes in Children With Intestinal Failure-Associated Liver Disease Treated With 6 Months of Intravenous Fish Oil Followed by Resumption of Intravenous Soybean Oil.** *JPEN. Journal of parenteral and enteral nutrition*
Wang, C., Venick, R. S., Shew, S. B., Dunn, J. C., Reyen, L., Gou, R., Calkins, K. L.
2018
- **Impact of societal factors and health care delivery systems on gastroschisis outcomes.** *Seminars in pediatric surgery*
Taylor, J. S., Shew, S. B.
2018; 27 (5): 316–20
- **Low-Dose Parenteral Soybean Oil for the Prevention of Parenteral Nutrition-Associated Liver Disease in Neonates With Gastrointestinal Disorders.** *JPEN. Journal of parenteral and enteral nutrition*
Calkins, K. L., Havranek, T., Kelley-Quon, L. I., Cerny, L., Flores, M., Grogan, T., Shew, S. B.
2017; 41 (3): 404-411
- **Nonoperative Management of Appendicitis.** *Clinical pediatrics*
Scott, A. n., Lee, S. L., DeUgarte, D. A., Shew, S. B., Dunn, J. C., Shekherdimian, S. n.
2017: 9922817696465
- **Is there a relationship between hospital volume and patient outcomes in gastroschisis repair?** *JOURNAL OF PEDIATRIC SURGERY*
Sacks, G. D., Ulloa, J. G., Shew, S. B.
2016; 51 (10): 1650-1654
- **Effect of High-Dose Cysteine Supplementation on Erythrocyte Glutathione: A Double-Blinded, Randomized Placebo-Controlled Pilot Study in Critically Ill Neonates.** *JPEN. Journal of parenteral and enteral nutrition*
Calkins, K. L., Sanchez, L. A., Tseng, C., Faull, K. F., Yoon, A. J., Ryan, C. M., Le, T., Shew, S. B.
2016; 40 (2): 226-234
- **Innovation in Pediatric Surgical Education for General Surgery Residents: A Mobile Web Resource** *JOURNAL OF SURGICAL EDUCATION*
Rouch, J. D., Wagner, J. P., Scott, A., Sullins, V. F., Chen, D. C., DeUgarte, D. A., Shew, S. B., Tillou, A., Dunn, J. C., Lee, S. L.
2015; 72 (6): 1190-1194
- **Maternal Factors Associated with the Occurrence of Gastroschisis** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Baer, R. J., Chambers, C. D., Jones, K. L., Shew, S. B., MacKenzie, T. C., Shaw, G. M., Jelliffe-Pawlawski, L. L.
2015; 167A (7): 1534-1541
- **Maternal factors associated with the occurrence of gastroschisis.** *American journal of medical genetics. Part A*
Baer, R. J., Chambers, C. D., Jones, K. L., Shew, S. B., MacKenzie, T. C., Shaw, G. M., Jelliffe-Pawlawski, L. L.

2015; 167 (7): 1534-1541

- **Academic-community partnerships improve outcomes in pediatric trauma care** *JOURNAL OF PEDIATRIC SURGERY*
Kelley-Quon, L. I., Crowley, M. A., Applebaum, H., Cummings, K., Kang, R. J., Tseng, C., Mangione, C. M., Shew, S. B.
2015; 50 (6): 1032-1036
- **Outcomes and Costs of Surgical Treatments of Necrotizing Enterocolitis** *PEDIATRICS*
Stey, A., Barnert, E. S., Tseng, C., Keeler, E., Needleman, J., Leng, M., Kelley-Quon, L. I., Shew, S. B.
2015; 135 (5): E1190-E1197
- **Multi-institutional practice patterns and outcomes in uncomplicated gastroschisis: A report from the University of California Fetal Consortium (UCfC)** *JOURNAL OF PEDIATRIC SURGERY*
Lusk, L. A., Brown, E. G., Overcash, R. T., Grogan, T. R., Keller, R. L., Kim, J. H., Poulain, F. R., Shew, S. B., Uy, C., DeUgarte, D. A.
2014; 49 (12): 1782-1786
- **Evaluation of Hospital Readmissions in Surgical Patients Do Administrative Data Tell the Real Story?** *JAMA SURGERY*
Sacks, G. D., Dawes, A. J., Russell, M. M., Lin, A. Y., Maggard-Gibbons, M., Winograd, D., Chung, H. R., Tomlinson, J., Tillou, A., Shew, S. B., Hiyama, D. T., Cryer, H. G., Brunnicardi, et al
2014; 149 (8): 759-764
- **Pediatric Intestinal Failure-Associated Liver Disease Is Reversed With 6 Months of Intravenous Fish Oil** *JOURNAL OF PARENTERAL AND ENTERAL NUTRITION*
Calkins, K. L., Dunn, J. C., Shew, S. B., Reyen, L., Farmer, D. G., Devaskar, S. U., Venick, R. S.
2014; 38 (6): 682-692
- **Reply to letter to the editor.** *Journal of pediatric surgery*
Shew, S. B.
2014; 49 (5): 845-847
- **Complications of Pediatric Cholecystectomy: Impact from Hospital Experience and Use of Cholangiography** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*
Kelley-Quon, L. I., Dokey, A., Jen, H. C., Shew, S. B.
2014; 218 (1): 73-81
- **Congenital malformations associated with assisted reproductive technology: A California statewide analysis** *JOURNAL OF PEDIATRIC SURGERY*
Kelley-Quon, L. I., Tseng, C., Janzen, C., Shew, S. B.
2013; 48 (6): 1218-1224
- **Short-term intravenous fish oil and pediatric intestinal failure associated liver disease: 3-year follow-up on liver function and nutrition** *JOURNAL OF PEDIATRIC SURGERY*
Calkins, K., Lowe, A., Shew, S. B., Dunn, J. C., Reyen, L., Farmer, D. G., Devaskar, S. U., Venick, R.
2013; 48 (1): 228-232
- **Hospital Type as a Metric for Racial Disparities in Pediatric Appendicitis** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*
Kelley-Quon, L. I., Tseng, C., Jen, H. C., Lee, S. L., Shew, S. B.
2013; 216 (1): 74-82
- **Postoperative complications and health care use in children undergoing surgery for ulcerative colitis** *JOURNAL OF PEDIATRIC SURGERY*
Kelley-Quon, L. I., Tseng, C., Jen, H. C., Ziring, D. A., Shew, S. B.
2012; 47 (11): 2063-2070
- **Predictors of Proctocolectomy in Children With Ulcerative Colitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Kelley-Quon, L. I., Jen, H. C., Ziring, D. A., Gupta, N., Kirschner, B. S., Ferry, G. D., Cohen, S. A., Winter, H. S., Heyman, M. B., Gold, B. D., Shew, S. B.
2012; 55 (5): 534-540
- **Hospital type predicts surgical complications for infants with hypertrophic pyloric stenosis.** *American surgeon*
Kelley-Quon, L. I., Tseng, C., Jen, H. C., Shew, S. B.
2012; 78 (10): 1079-1082
- **Does hospital transfer predict mortality in very low birth weight infants requiring surgery for necrotizing enterocolitis?** *SURGERY*
Kelley-Quon, L. I., Tseng, C., Scott, A., Jen, H. C., Calkins, K. L., Shew, S. B.

2012; 152 (3): 337-343

- **Liver herniation in gastroschisis: incidence and prognosis** *JOURNAL OF PEDIATRIC SURGERY*
McClellan, E. B., Shew, S. B., Lee, S. S., Dunn, J. C., DeUgarte, D. A.
2011; 46 (11): 2115-2118
- **Trends and Outcomes of Adolescent Bariatric Surgery in California, 2005-2007** *PEDIATRICS*
Jen, H. C., Rickard, D. G., Shew, S. B., Maggard, M. A., Slusser, W. M., Dutson, E. P., DeUgarte, D. A.
2010; 126 (4): E746-E753
- **Disparity in Management and Long-term Outcomes of Pediatric Splenic Injury in California** *ANNALS OF SURGERY*
Jen, H. C., Tillou, A., Cryer, H. G., Shew, S. B.
2010; 251 (6): 1162-1166
- **Hospital Readmissions and Survival After Nonneonatal Pediatric ECMO** *PEDIATRICS*
Jen, H. C., Shew, S. B.
2010; 125 (6): 1217-1223
- **Laparoscopic Versus Open Appendectomy in Children: Outcomes Comparison Based on a Statewide Analysis** *JOURNAL OF SURGICAL RESEARCH*
Jen, H. C., Shew, S. B.
2010; 161 (1): 13-17
- **Creation of Inpatient Capacity During a Major Hospital Relocation Lessons for Disaster Planning** *ARCHIVES OF SURGERY*
Jen, H. C., Shew, S. B., Atkinson, J. B., Rosenthal, J. T., Hiatt, J. R.
2009; 144 (9): 859-864
- **Hospital Differences in Short-Term Outcomes for Uncomplicated Pediatric Patients With Gallbladder Disease** *JOURNAL OF SURGICAL RESEARCH*
Jen, H. C., Shew, S. B.
2009; 153 (2): 195-200
- **Surgical concerns in malrotation and midgut volvulus.** *Pediatric radiology*
Shew, S. B.
2009; 39: S167-71
- **The impact of hospital type and experience on the operative utilization in pediatric intussusception: a nationwide study** *JOURNAL OF PEDIATRIC SURGERY*
Jen, H. C., Shew, S. B.
2009; 44 (1): 241-246
- **Recombinant activated factor VII use in critically ill infants with active hemorrhage** *JOURNAL OF PEDIATRIC SURGERY*
Jen, H., Shew, S.
2008; 43 (12): 2235-2238
- **Management of High-Grade Splenic Injury in Children** *AMERICAN SURGEON*
Jim, J., Leonardi, M. J., Cryer, H. G., Hiatt, J. R., Shew, S., Cohen, M., Tillou, A.
2008; 74 (10): 988-992
- **Use of esophagocrural sutures and minimal esophageal dissection reduces the incidence of postoperative transmigration of laparoscopic Nissen fundoplication wrap** *JOURNAL OF PEDIATRIC SURGERY*
St Peter, S. D., Valusek, P. A., Calkins, C. M., Shew, S. B., Ostlie, D. J., Holcomb, G. W.
2007; 42 (1): 25-30
- **Management of postoperative infections after the minimally invasive pectus excavatum repair** *JOURNAL OF PEDIATRIC SURGERY*
Calkins, C. M., Shew, S. B., Sharp, R. J., Ostlie, D. J., Yoder, S. M., Gittes, G. K., Snyder, C. L., Guevel, W., Holcomb, G. W.
2005; 40 (6): 1004-1008
- **Assessment of cysteine synthesis in very low-birth weight neonates using a [C-13(6)]glucose tracer** *JOURNAL OF PEDIATRIC SURGERY*
Shew, S. B., Keshen, T. H., Jahoor, F., Jaksic, T.
2005; 40 (1): 52-56

- **The parental perspective regarding the contralateral inguinal region in a child with a known unilateral inguinal hernia** *JOURNAL OF PEDIATRIC SURGERY*
Holcomb, G. W., Miller, K. A., Chaignaud, B. E., Shew, S. B., Ostlie, D. J.
2004; 39 (3): 480-482
- **Energy expenditure in ill premature neonates** *JOURNAL OF PEDIATRIC SURGERY*
Garza, J. J., Shew, S. B., Keshen, T. H., Dzakovic, A., Jahoor, F., Jaksic, T.
2002; 37 (3): 289-293
- **Do critically ill surgical neonates have increased energy expenditure?** *JOURNAL OF PEDIATRIC SURGERY*
Jaksic, T., Shew, S. B., Keshen, T. H., Dzakovic, A., Jahoor, F.
2001; 36 (1): 63-67
- **Ligation of a patent ductus arteriosus under fentanyl anesthesia improves protein metabolism in premature neonates** *JOURNAL OF PEDIATRIC SURGERY*
Shew, S. B., Keshen, T. H., Glass, N. L., Jahoor, F., Jaksic, T.
2000; 35 (9): 1277-1281
- **Validation of a [C-13]bicarbonate tracer technique to measure neonatal energy expenditure** *PEDIATRIC RESEARCH*
Shew, S. B., Beckett, P. R., Keshen, T. H., Jahoor, F., Jaksic, T.
2000; 47 (6): 787-791
- **The metabolic needs of critically ill children and neonates.** *Seminars in pediatric surgery*
Shew, S. B., Jaksic, T.
1999; 8 (3): 131-139
- **The determinants of protein catabolism in neonates on extracorporeal membrane oxygenation** *JOURNAL OF PEDIATRIC SURGERY*
Shew, S. B., Keshen, T. H., Jahoor, F., Jaksic, T.
1999; 34 (7): 1086-1090
- **Does extracorporeal membrane oxygenation improve survival in neonates with congenital diaphragmatic hernia? The Congenital Diaphragmatic Hernia Study Group.** *Journal of pediatric surgery*
1999; 34 (5): 720-724
- **Growth deficiency and malnutrition in Bloom syndrome** *JOURNAL OF PEDIATRICS*
Keller, C., Keller, K. R., Shew, S. B., Plon, S. E.
1999; 134 (4): 472-479
- **Does extracorporeal membrane oxygenation benefit neonates with congenital diaphragmatic hernia? Application of a predictive equation** *JOURNAL OF PEDIATRIC SURGERY*
Keshen, T. H., Gursoy, M., Shew, S. B., Smith, E., MILLER, R. G., Wearden, M. E., Moise, A. A., Jaksic, T.
1997; 32 (6): 818-822
- **Compartmentation of endogenously synthesized amino acids in neonates** *JOURNAL OF SURGICAL RESEARCH*
MILLER, R. G., Keshen, T. H., Jahoor, F., Shew, S. B., Jaksic, T.
1996; 63 (1): 199-203