

Stanford



John Kerner

Professor of Pediatrics (Gastroenterology) at the Lucile Salter Packard Children's Hospital

Pediatrics - Gastroenterology

CLINICAL OFFICES

- **Pediatric Gastroenterology**

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Bio

CLINICAL FOCUS

- Gastroenterology/Nutrition/Hepatology, Pediatric
- Pediatric Gastroenterology

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Pediatrics - Gastroenterology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University School of Medicine Registrar (1979) CA
- Residency: Stanford University School of Medicine Registrar (1976) CA
- Medical Education: University of California at San Francisco School of Medicine (1973) CA
- Board Certification: Pediatric Gastroenterology, American Board of Pediatrics (1990)
- Board Certification: Pediatrics, American Board of Pediatrics (1979)
- Internship: Stanford University School of Medicine (1974) CA

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am interested in pediatric nutritional support and have experience evaluating new enteral and parenteral products especially for the neonate (I studied a "new" I.V. fat product for Abbott; I participated in a multicenter trial of a formula with fish oil in it for neonates with Mead Johnson and a multicenter trial of a new human milk fortifier for Wyeth). I am the medical director of our nutrition support team and home pharmacy and am interested in short- and long-term "outcome studies" re: use of TPN-impact on development of patient and family functioning in short bowel patients on long-term parenteral/enteral support.

More recently my research has involved : studying how to limit amounts of Aluminum in TPN solutions;Use of ethanol locks in preventing CLABSIs;Use of novel fat emulsions in IR patients; developing a "Care Card"for home TPN patients to improve the healthcare of pts. with central lines who present to the ED with fever;treatment of central line occlusion (original studies of Alteplase); risk factors of CLABSIs in pediatric short bowel syndrome:
Liver biopsies in the first year of life in IR patients on TPN

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Ke-You Zhang

Publications

PUBLICATIONS

- **Getting the OK to Import Zero K MVI: Maintaining TTR in an Infant with SBS.** *Digestive diseases and sciences*
Huang, A., Lee, K., Chan, M., Mak, K., Nishioka, F., Gilbaugh, A., Laguit, K., Nespor, C., Almond, C., Kerner, J.
2020
- **Risk Factors of Ambulatory Central Line-Associated Bloodstream Infection in Pediatric Short Bowel Syndrome.** *JPEN. Journal of parenteral and enteral nutrition*
Seddik, T. B., Tian, L., Nespor, C., Kerner, J., Maldonado, Y., Gans, H.
2019
- **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
- **Procalcitonin as a Predictive Marker for Bacteremia in Children With a Central Line and Fever.** *Hospital pediatrics*
Damman, J., Arias, P., Kerner, J., Zhang, K. Y., Dehghan, M., Krishnan, G., Nespor, C., Bensen, R., Park, K. T.
2019
- **The Runs: Sudden Copious Ostomy Output in an Acolonic Hirschsprung Disease Patient with Short Gut Syndrome** *DIGESTIVE DISEASES AND SCIENCES*
Nakayuenyongsuk, W., Barnes, D., Martin, B., Christofferson, M., Kerner, J.
2019; 64 (1): 56–59
- **Nutritional Needs and Support for Children with Chronic Liver Disease.** *Nutrients*
Yang, C. H., Perumpail, B. J., Yoo, E. R., Ahmed, A., Kerner, J. A.
2017; 9 (10)
- **Feeling the Impact of Long-Term Total Parenteral Nutrition.** *Digestive diseases and sciences*
Sellers, Z. M., Thorson, C., Co, S., Schaberg, K. B., Kerner, J. A.
2017
- **Management of short bowel syndrome in postoperative very low birth weight infants** *SEMINARS IN FETAL & NEONATAL MEDICINE*
Mayer, O., Kerner, J. A.
2017; 22 (1): 49–56
- **Severe Lactic Acidosis in a Parenteral Nutrition-Dependent Teenager with Ulcerative Colitis.** *Digestive diseases and sciences*
Barnes, D., Kerner, J.
2016; 61 (10): 2804-2806
- **Iodine Supplementation for Pediatric Patients Receiving Long-Term Parenteral Nutrition.** *Nutrition in clinical practice*
Santoro, J. D., Nespor, C., Poole, R. L., Kerner, J. A.
2016; 31 (2): 245-249

- **Intractable Diarrhea in Two Brothers: Late Diagnosis of Tufting Enteropathy in Adolescence.** *Digestive diseases and sciences*
Haas, K., Martin, B., Martín, M., Kerner, J.
2016; 61 (2): 381-383
- **ACTG2 variants impair actin polymerization in sporadic Megacystis Microcolon Intestinal Hypoperistalsis Syndrome** *HUMAN MOLECULAR GENETICS*
Halim, D., Hofstra, R. W., Signorile, L., Verdijk, R. M., van der Werf, C. S., Sribudiani, Y., Brouwer, R. W., van Ijcken, W. J., Dahl, N., Verheij, J. M., Baumann, C., Kerner, J., van Bever, et al
2016; 25 (3): 571-83
- **Evaluation of Intestinal Biopsies for Pediatric Enteropathy A Proposed Immunohistochemical Panel Approach** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Martin, B. A., Kerner, J. A., Hazard, F. K., Longacre, T. A.
2014; 38 (10): 1387-1395
- **Hodgkin lymphoma following adalimumab for the treatment of Crohn's disease in an adolescent.** *Digestive diseases and sciences*
Rodriguez, A. A., Kerner, J., Luna-Fineman, S., Berry, G. J.
2014; 59 (10): 2403-2405
- **Hodgkin Lymphoma Following Adalimumab for the Treatment of Crohn's Disease in an Adolescent** *DIGESTIVE DISEASES AND SCIENCES*
Rodriguez, A. A., Kerner, J., Luna-Fineman, S., Berry, G. J.
2014; 59 (10): 2403-2405
- **Case 3 Lactic Acidosis and Cardiovascular Collapse in a Teen With Ulcerative Colitis** *PEDIATRICS IN REVIEW*
Wallenstein, M. B., Burgener, E. B., Klotz, J., Kerner, J. A.
2014; 35 (10): 444-46
- **Index of suspicion.** *Pediatrics in review*
Todd, S., Arora, R., Kannikeswaran, N., Allarakhia, I., Sivaswamy, L., Wallenstein, M. B., Burgener, E. B., Klotz, J., Kerner, J. A.
2014; 35 (10): 439-446
- **Misdiagnosis of Alpha-1 Antitrypsin Phenotype in an Infant with CMV Infection and Liver Failure** *DIGESTIVE DISEASES AND SCIENCES*
Arias, P., Kerner, J., Christofferson, M., Berquist, W., Park, K. T.
2014; 59 (8): 1710-1713
- **Infliximab for the treatment of granulomatous peritonitis.** *Digestive diseases and sciences*
Yeh, A. M., Kerner, J., Hillard, P., Bass, D.
2013; 58 (12): 3397-3399
- **Multiple hepatic adenomas in a child with microvillus inclusion disease.** *Digestive diseases and sciences*
Burgis, J. C., Pratt, C. A., Higgins, J. P., Kerner, J. A.
2013; 58 (10): 2784-2788
- **Evaluation of ethanol lock therapy in pediatric patients on long-term parenteral nutrition.** *Nutrition in clinical practice*
Pieroni, K. P., Nespor, C., Ng, M., Garcia, M., Hurwitz, M., Berquist, W. E., Kerner, J. A.
2013; 28 (2): 226-231
- **ECHINOCANDIN AND ETHANOL LOCK THERAPY TREATMENT OF FUNGAL CATHETER INFECTIONS** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Pieroni, K. P., Nespor, C., Poole, R. L., Kerner, J. A., Berquist, W. E.
2013; 32 (3): 289-291
- **Aluminum Exposure in Neonatal Patients Using the Least Contaminated Parenteral Nutrition Solution Products** *NUTRIENTS*
Poole, R. L., Pieroni, K. P., Gaskari, S., Dixon, T., Kerner, J. A.
2012; 4 (11): 1566-1574
- **An Evolving Case of Concurrent Eosinophilic Esophagitis and Eosinophilic Gastroenteritis** *DIGESTIVE DISEASES AND SCIENCES*
Le-Carlson, M., Triadafilopoulos, G., Pai, R. K., Kerner, J. A.
2012; 57 (4): 842-844
- **New advances in the management of children with intestinal failure.** *JPEN. Journal of parenteral and enteral nutrition*

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- Peterson, J., Kerner, J. A.
2012; 36 (1): 36S-42S
- **New Advances in the Management of Children With Intestinal Failure** *JOURNAL OF PARENTERAL AND ENTERAL NUTRITION*
Peterson, J., Kerner, J. A.
2012; 36: 36S-42S
 - **Chylous Ascites After Laparoscopic Nissen Fundoplication** *DIGESTIVE DISEASES AND SCIENCES*
Park, K. T., Adikibi, B., MacKinlay, G. A., Gillett, P. M., Sylvester, K. G., Kerner, J. A.
2012; 57 (1): 28-31
 - **Immunophenotyping of Peripheral Eosinophils Demonstrates Activation in Eosinophilic Esophagitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Tammie Nguyen, T., Gernez, Y., Fuentesbella, J., Patel, A., Tirouvanziam, R., Reshamwala, N., Bass, D., Berquist, W. E., Cox, K. L., Kerner, J. A., Nadeau, K. C.
2011; 53 (1): 40-47
 - **Reversal of Hepatic and Renal Failure from Sickle Cell Intrahepatic Cholestasis** *DIGESTIVE DISEASES AND SCIENCES*
Khan, M. A., Kerner, J. A.
2011; 56 (6): 1634-1636
 - **The use of Omegaven in treating parenteral nutrition-associated liver disease** *JOURNAL OF PERINATOLOGY*
Park, K. T., NESPOR, C., Kerner, J.
2011; 31: S57-S60
 - **Aluminum in pediatric parenteral nutrition products: measured versus labeled content.** *The journal of pediatric pharmacology and therapeutics : JPPT : the official journal of PPAG*
Poole, R. L., Pieroni, K. P., Gaskari, S., Dixon, T. K., Park, K., Kerner, J. A.
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 - **Increased Number of Regulatory T Cells in Children With Eosinophilic Esophagitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Fuentesbella, J., Patel, A., Nguyen, T., Sanjanwala, B., Berquist, W., Kerner, J. A., Bass, D., Cox, K., Hurwitz, M., Huang, J., Nguyen, C., Quiros, J. a., Nadeau, et al
2010; 51 (3): 283-289
 - **Increased HLA-DR Expression on Tissue Eosinophils in Eosinophilic Esophagitis** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Patel, A. J., Fuentesbella, J., Gernez, Y., Nguyen, T., Bass, D., Berquist, W., Cox, K., Sibley, E., Kerner, J., Nadeau, K.
2010; 51 (3): 290-294
 - **Nickel Toxicity Presenting as Persistent Nausea and Abdominal Pain** *DIGESTIVE DISEASES AND SCIENCES*
Fuentesbella, J., Kerner, J. A.
2010; 55 (8): 2162-2164
 - **Aluminum Content of Parenteral Nutrition in Neonates: Measured Versus Calculated Levels** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*
Poole, R. L., Schiff, L., Hintz, S. R., Wong, A., Mackenzie, N., Kerner, J. A.
2010; 50 (2): 208-211
 - **Eotaxin and FGF enhance signaling through an extracellular signal-related kinase (ERK)-dependent pathway in the pathogenesis of Eosinophilic esophagitis.** *Allergy, asthma, and clinical immunology : official journal of the Canadian Society of Allergy and Clinical Immunology*
Huang, J. J., Joh, J. W., Fuentesbella, J., Patel, A., Nguyen, T., Seki, S., Hoyte, L., Reshamwala, N., Nguyen, C., Quiros, A., Bass, D., Sibley, E., Berquist, et al
2010; 6 (1): 25-?
 - **Transcription Factors as Disease Indicators in Eosinophilic Esophagitis** *10th Annual Meeting of the Federation-of-Clinical-Immunology-Societies*
Nguyen, T., Gernez, Y., Fuentesbella, J., Patel, A., Tirouvanziam, R., Reshamwala, N., Saper, V., Bass, D., Berquist, W., Kerner, J., Nadeau, K.
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 - **Liver Abscesses, Pylephlebitis, and Appendicitis in an Adolescent Male** *DIGESTIVE DISEASES AND SCIENCES*
Patel, A. J., Ong, P. V., Higgins, J. P., Kerner, J. A.
2009; 54 (12): 2546-2548
 - **Diversion Colitis in a 19-Year-Old Female with Megacystis-Microcolon-Intestinal Hypoperistalsis Syndrome** *DIGESTIVE DISEASES AND SCIENCES*
Talisetti, A., Longacre, T., Pai, R. K., Kerner, J.
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2009; 54 (11): 2338-2340

- **Refeeding Syndrome** *PEDIATRIC CLINICS OF NORTH AMERICA*
Fuentebella, J., Kerner, J. A.
2009; 56 (5): 1201-?
- **Identifying Eosinophilic Esophagitis through Evaluation of Plasma Biomarkers** *65th Annual Meeting of the American-Academy-of-Allergy-Asthma-and-Immunology*
Joh, J., Huang, J., Nguyen, T., Vishwaanath, N., Patel, A., Fuentebella, J., Saper, V., Kerner, J., Cox, K., Berquist, W., Nadeau, K.
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- **Aluminum exposure from pediatric parenteral nutrition: Meeting the new FDA regulation** *JOURNAL OF PARENTERAL AND ENTERAL NUTRITION*
Poole, R. L., Hintz, S. R., Mackenzie, N. I., Kerner, J. A.
2008; 32 (3): 242-246
- **Alteplase for the treatment of central venous catheter occlusion in children: Results of a prospective, open-label, single-arm study (The Cathflo Activase Pediatric Study)** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
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Kerner, J. A., Poole, R. L.
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- **Parenteral nutrition-associated cholestasis related to parental care.** *Nutrition in clinical practice*
Wu, P. A., Kerner, J. A., Berquist, W. E.
2006; 21 (3): 291-295
- **Hepatic infantile hemangioendothelioma with unusual manifestations** *16th Annual Meeting of the North-American-Society-of-Pediatric-Gastroenterology-Hepatology-and-Nutrition*
Burtelow, M., Garcia, T., Lucile, S., Cox, K., Berquist, W., Kerner, J.
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- **Treatment of catheter occlusion in pediatric patients** *Conference on Evidence-Based Approach to Optimal Management of HPEN Access*
Kerner, J. A., Garcia-Careaga, M. G., Fisher, A. A., Poole, R. L.
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- **Gastrointestinal manifestations of food allergies in pediatric patients.** *Nutrition in clinical practice*
Garcia-Careaga, M., Kerner, J. A.
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- **Copper deficiency during parenteral nutrition: a report of four pediatric cases.** *Nutrition in clinical practice*
Hurwitz, M., Garcia, M. G., Poole, R. L., Kerner, J. A.
2004; 19 (3): 305-308
- **The use of alteplase for restoring patency to occluded central venous access devices in infants and children.** *Journal of infusion nursing : the official publication of the Infusion Nurses Society*
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Longhurst, C., Naumovski, L., Garcia-Careaga, M., Kerner, J.
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- **A gastroenterologist's approach to failure to thrive** *PEDIATRIC ANNALS*
Careaga, M. G., Kerner, J. A.
2000; 29 (9): 558-?
- **Growth in human milk-fed very low birth weight infants receiving a new human milk fortifier** *Annual Meeting of the European-Society-for-Pediatric-Research*
Porcellia, P., Schanier, R., Greer, F., Chan, G., Gross, S., Mehta, N., Spear, M., Kerner, J., Euler, A. R.

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Collins, J. J., Kerner, J., SENTIVANY, S., Berde, C. B.
1995; 10 (6): 471-475
- **EVOLVING ASYMMETRIC HYPERTROPHIC PYLORIC-STENOSIS ASSOCIATED WITH HISTOLOGIC EVIDENCE OF EOSINOPHILIC GASTROENTERITIS** *PEDIATRIC RADIOLOGY*
Blankenberg, F. G., Parker, B. R., Sibley, E., Kerner, J. A.
1995; 25 (4): 310-311
- **FORMULA ALLERGY AND INTOLERANCE** *GASTROENTEROLOGY CLINICS OF NORTH AMERICA*
Kerner, J. A.
1995; 24 (1): 1-25
- **THE EFFECT OF NUTRITIONAL ADDITIVES ON ANTIINFECTIVE FACTORS IN HUMAN-MILK** *CLINICAL PEDIATRICS*
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1994; 33 (6): 325-328
- **IMPROVED GROWTH AND DISEASE-ACTIVITY AFTER INTERMITTENT ADMINISTRATION OF A DEFINED FORMULA DIET IN CHILDREN WITH CROHNS-DISEASE** *JOURNAL OF PARENTERAL AND ENTERAL NUTRITION*
Polk, D. B., HATTNER, J. A., Kerner, J. A.
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- **EFFECTS OF MICROWAVE-RADIATION ON ANTIINFECTIVE FACTORS IN HUMAN-MILK** *PEDIATRICS*
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- **MICROVILLOUS INCLUSION DISEASE - THE IMPORTANCE OF ELECTRON-MICROSCOPY FOR DIAGNOSIS** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
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- Modler, S., Kerner, J. A., Castillo, R. O., Vreman, H. J., Stevenson, D. K.
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 - **INTESTINAL FLORA IN THE 2ND WEEK OF LIFE IN HOSPITALIZED PRETERM INFANTS FED STORED FROZEN BREAST-MILK OR A PROPRIETARY FORMULA** *CLINICAL PEDIATRICS*
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