

# Stanford

---

## Hayden Schwenk

Clinical Associate Professor, Pediatrics - Infectious Diseases

### CLINICAL OFFICES

453 Quarry Rd

MC 5660

Stanford, CA 94304

**Tel** (650) 497-4834      **Fax** (650) 725-8040

#### • Pediatrics

725 Welch Rd

MC 5208

Palo Alto, CA 94304

**Tel** (650) 497-8979      **Fax** (408) 885-3357

#### • Pediatric Infectious Disease

300 Pasteur Dr Rm G312

Stanford, CA 94305

**Tel** (650) 497-4834      **Fax** (650) 725-8040

### Bio

---

### CLINICAL FOCUS

- Pediatric Infectious Diseases

### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Infectious Diseases
- Member, Maternal & Child Health Research Institute (MCHRI)

### PROFESSIONAL EDUCATION

- Board Certification: Pediatric Infectious Diseases, American Board of Pediatrics (2013)
- MPH, Harvard School of Public Health , Clinical Effectiveness (2013)
- Board Certification, Pediatric Infectious Diseases , American Board of Pediatrics (2013)
- Fellowship: Boston Children's Hospital (2013) MA
- Board Certification: Pediatrics, American Board of Pediatrics (2009)
- Residency: Lucile Packard Children's Hospital (2009) CA
- Medical Education: University of Texas Southwestern Medical Center (2006) TX

## Publications

---

### PUBLICATIONS

- **Respiratory Failure in an 11-day-old Neonate.** *NeoReviews*  
Aiden, A. P., Khan, A., Schwenk, H., Fuerch, J. H.  
2023; 24 (1): 36-38
- **Characteristics of antifungal utilization for hospitalized children in the United States.** *Antimicrobial stewardship & healthcare epidemiology : ASHE*  
Eguiguren, L., Lee, B. R., Newland, J. G., Kronman, M. P., Hersh, A. L., Gerber, J. S., Lee, G. M., Schwenk, H. T.  
2022; 2 (1): e190
- **Near-fatal Legionella pneumonia in a neonate linked to home humidifier by metagenomic next generation sequencing.** *Med (New York, N.Y.)*  
West, P. T., Brooks, E. F., Costales, C., Moreno, A., Jensen, T. D., Budvytiene, I., Khan, A., Pham, T. H., Schwenk, H. T., Bhatt, A. S., Banaei, N.  
2022
- **Association of Diagnostic Stewardship for Blood Cultures in Critically Ill Children With Culture Rates, Antibiotic Use, and Patient Outcomes: Results of the Bright STAR Collaborative.** *JAMA pediatrics*  
Woods-Hill, C. Z., Colantuoni, E. A., Koontz, D. W., Voskertchian, A., Xie, A., Thurm, C., Miller, M. R., Fackler, J. C., Milstone, A. M., Bright STAR Authorship Group, Agulnik, A., Albert, J. E., Auth, M. J., et al  
2022
- **Updated Guidance on Use and Prioritization of Monoclonal Antibody Therapy for Treatment of COVID-19 in Adolescents.** *Journal of the Pediatric Infectious Diseases Society*  
Wolf, J., Abzug, M. J., Anosike, B. I., Vora, S. B., Waghmare, A., Sue, P. K., Olivero, R. M., Oliveira, C. R., James, S. H., Morton, T. H., Maron, G. M., Young, J. L., Orscheln, et al  
1800
- **Hidden No More: Capturing the Full Picture of Prolonged Perioperative Antibiotic Prophylaxis.** *Hospital pediatrics*  
Schwenk, H. T., Bio, L. L.  
1800
- **Leveraging antimicrobial stewardship programs in response to the coronavirus disease 2019 (COVID-19) public health emergency** *Antimicrobial Stewardship & Healthcare Epidemiology*  
Joerger, T. A., Bio, L., Puckett, L., Schwenk, H.  
2022; 2 (1)
- **A National Survey of Outpatient Parenteral Antibiotic Therapy Practices.** *Journal of the Pediatric Infectious Diseases Society*  
Vaz, L. E., Felder, K. K., Newland, J. G., Hersh, A. L., Rajapakse, N. S., Willis, Z. I., Banerjee, R., Gerber, J. S., Schwenk, H. T., Wang, M. E.  
1800
- **Recent advances in Clostridioides difficile infection epidemiology, diagnosis and treatment in children.** *Current opinion in infectious diseases*  
Kociolek, L. K., Crews, J. D., Schwenk, H. T.  
2021
- **Antibiotic Stewardship for the Neonatologist and Perinatologist.** *Clinics in perinatology*  
Katz, S., Banerjee, R., Schwenk, H.  
2021; 48 (2): 379-391
- **Toxoplasmosis in Pediatric Hematopoietic Stem Cell Transplantation Patients.** *Transplantation and cellular therapy*  
Schwenk, H. T., Khan, A., Kohlman, K., Bertaina, A., Cho, S., Montoya, J. G., Contopoulos-Ioannidis, D. G.  
2021; 27 (4): 292-300
- **Response to Trimethoprim-Sulfamethoxazole in a Pediatric Hematopoietic Stem Cell Transplant Recipient With Disseminated Toxoplasmosis: A Case Report.** *Journal of the Pediatric Infectious Diseases Society*  
Khan, A., Schwenk, H. T., Kohlman, K., Bertaina, A., Cho, S., Montoya, J. G., Contopoulos-Ioannidis, D.  
2021
- **Toxoplasmosis Among 38,751 Hematopoietic Stem Cell Transplant Recipients: A Systematic Review of Disease Prevalence and a Compilation of Imaging and Autopsy Findings.** *Transplantation*

- Contopoulos-Ioannidis, D. G., Cho, S. M., Bertaina, A., Leung, A. N., Fischbein, N., Lanzman, B., Schwenk, H. T., Montoya, J. G.  
2021
- **Initial Guidance on Use of Monoclonal Antibody Therapy for Treatment of COVID-19 in Children and Adolescents.** *Journal of the Pediatric Infectious Diseases Society*  
Wolf, J. n., Abzug, M. J., Wattier, R. L., Sue, P. K., Vora, S. B., Zachariah, P. n., Dulek, D. E., Waghmare, A. n., Olivero, R. n., Downes, K. J., James, S. H., Pinninti, S. G., Yarbrough, et al  
2021
  - **Pediatric Clostridioides difficile Infection: Diagnosis and Diagnostic Stewardship.** *Journal of the Pediatric Infectious Diseases Society*  
Schwenk, H. T., Pollock, N. R., Vaughan-Malloy, A. M.  
2021; 10 (Supplement\_3): S16-S21
  - **Pediatric antimicrobial stewardship practices at discharge: A national survey** *Infection Control & Hospital Epidemiology*  
Wang, M. E., Felder, K., Newland, J. G., Hersh, A. L., Rajapakse, N. S., Willis, Z. I., Banerjee, R., Gerber, J. S., Schwenk, H. T., Vaz, L. E.  
2021: 1-3
  - **Clinical Accuracy and Impact of Plasma Cell-Free DNA Fungal PCR Panel for Non-Invasive Diagnosis of Fungal Infection.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*  
Senchyna, F. n., Hogan, C. A., Murugesan, K. n., Moreno, A. n., Ho, D. Y., Subramanian, A. n., Schwenk, H. T., Budvytiene, I. n., Costa, H. A., Gombar, S. n., Banaei, N. n.  
2021
  - **Standardization of Post-operative Antimicrobials Reduced Exposure While Maintaining Good Outcomes in Pediatric Liver Transplant Recipients.** *Transplant infectious disease : an official journal of the Transplantation Society*  
Bio, L. L., Schwenk, H. T., Chen, S. F., Conlon, S., Gallo, A., Andy Bonham, C., Gans, H. A.  
2020: e13538
  - **Use of Prospective Audit and Feedback to Reduce Antibiotic Exposure in a Pediatric Cardiac ICU.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*  
Schwenk, H. T., Kruger, J. F., Sacks, L. D., Wood, M. S., Qureshi, L., Bio, L. L.  
2020
  - **The current state of antifungal stewardship among pediatric antimicrobial stewardship programs.** *Infection control and hospital epidemiology*  
Eguiguren, L., Newland, J. G., Kronman, M. P., Hersh, A. L., Gerber, J. S., Lee, G. M., Schwenk, H. T.  
2020: 1-6
  - **Inpatient Observation After Transition From Intravenous to Oral Antibiotics.** *Hospital pediatrics*  
Stromberg, T. L., Robison, A. D., Kruger, J. F., Bentley, J. P., Schwenk, H. T.  
2020
  - **Reporting and Categorization of Blood Culture Contaminants in Infants and Young Children: A Scoping Review** *JOURNAL OF THE PEDIATRIC INFECTIOUS DISEASES SOCIETY*  
Chappell-Campbell, L., Schwenk, H. T., Capdarest-Arest, N., Schroeder, A. R.  
2020; 9 (2): 110-17
  - **Clinical Impact of Clostridium difficile PCR Cycle Threshold-Predicted Toxin Reporting in Pediatric Patients** *JOURNAL OF THE PEDIATRIC INFECTIOUS DISEASES SOCIETY*  
Schwenk, H. T., Bio, L. L., Kruger, J. F., Banaei, N.  
2020; 9 (1): 44-50
  - **A 10-Month-Old Female With Complicated Mastoiditis Due to Fusobacterium necrophorum: A Case Report and Literature Review.** *Journal of the Pediatric Infectious Diseases Society*  
Rosenthal, A. n., Gans, H. n., Schwenk, H. T.  
2020
  - **Multicenter initial guidance on use of antivirals for children with COVID-19/SARS-CoV-2.** *Journal of the Pediatric Infectious Diseases Society*  
Chiotos, K. n., Hayes, M. n., Kimberlin, D. W., Jones, S. B., James, S. H., Pinninti, S. G., Yarbrough, A. n., Abzug, M. J., MacBrayne, C. E., Soma, V. L., Dulek, D. E., Vora, S. B., Waghmare, et al  
2020

- **Multicenter interim guidance on use of antivirals for children with COVID-19/SARS-CoV-2.** *Journal of the Pediatric Infectious Diseases Society*  
Chiotos, K. n., Hayes, M. n., Kimberlin, D. W., Jones, S. B., James, S. H., Pinninti, S. G., Yarbrough, A. n., Abzug, M. J., MacBrayne, C. E., Soma, V. L., Dulek, D. E., Vora, S. B., Waghmare, et al  
2020
- **Model-Informed Precision Dosing of Vancomycin in Hospitalized Children: Implementation and Adoption at an Academic Children's Hospital.** *Frontiers in pharmacology*  
Frymoyer, A. n., Schwenk, H. T., Zorn, Y. n., Bio, L. n., Moss, J. D., Chasmawala, B. n., Faulkenberry, J. n., Goswami, S. n., Keizer, R. J., Ghaskari, S. n.  
2020; 11: 551
- **Reducing Piperacillin and Tazobactam Use for Pediatric Perforated Appendicitis.** *The Journal of surgical research*  
Sedik, T. B., Rabsatt, L. A., Mueller, C. n., Bassett, H. K., Contopoulos-Ioannidis, D. n., Bio, L. L., Anderson, V. D., Schwenk, H. T.  
2020; 260: 141–48
- **A multifaceted quality improvement project improves intraoperative redosing of surgical antimicrobial prophylaxis during pediatric surgery** *PEDIATRIC ANESTHESIA*  
Colletti, A. A., Wang, E., Marquez, J. L., Schwenk, H. T., Yeverino, C., Sharek, P. J., Caruso, T. J.  
2019; 29 (7): 705–11
- **Dipyldium caninum Infection.** *The New England journal of medicine*  
Hogan, C. A., Schwenk, H.  
2019; 380 (21): e39
- **A multifaceted quality improvement project improves intraoperative redosing of surgical antimicrobial prophylaxis during pediatric surgery.** *Paediatric anaesthesia*  
Colletti, A. A., Wang, E. n., Marquez, J. L., Schwenk, H. T., Yeverino, C. n., Sharek, P. J., Caruso, T. J.  
2019
- **Reporting and Categorization of Blood Culture Contaminants in Infants and Young Children: A Scoping Review.** *Journal of the Pediatric Infectious Diseases Society*  
Chappell-Campbell, L., Schwenk, H. T., Capdarest-Arest, N., Schroeder, A. R.  
2018
- **Clinical Impact of Clostridium difficile PCR Cycle Threshold-Predicted Toxin Reporting in Pediatric Patients.** *Journal of the Pediatric Infectious Diseases Society*  
Schwenk, H. T., Bio, L. L., Kruger, J. F., Banaei, N.  
2018
- **Liver Failure and Rash in a 6-week-old Girl** *PEDIATRICS IN REVIEW*  
Mediratta, R., Schwenk, H., Rao, A., Chitkara, R.  
2018; 39 (6): 315–U22
- **Predictors of Antimicrobial Stewardship Program Recommendation Disagreement.** *Infection control and hospital epidemiology*  
Bio, L. L., Kruger, J. F., Lee, B. P., Wood, M. S., Schwenk, H. T.  
2018: 1–8
- **IMPLEMENTATION OF A VANCOMYCIN MODEL-BASED DOSING TOOL INTEGRATED WITHIN THE ELECTRONIC HEALTH RECORD.**  
Goswami, S., Keizer, R., Ghaskari, S., Schneider, L., Faulkenberry, J. H., Chasmawala, B., Schwenk, H. T., Frymoyer, A.  
WILEY.2018: S68
- **An Observational Study of Severe Pertussis in 100 Infants 120 Days of Age** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*  
Cherry, J. D., Wendorf, K., Bregman, B., Lehman, D., Nieves, D., Bradley, J. S., Mason, W. H., Sande-Lopez, L., Lopez, M., Federman, M., Chen, T., Blumberg, D., Johnston, et al  
2018; 37 (3): 202–5
- **A Postoperative Care Bundle Reduces Surgical Site Infections in Pediatric Patients Undergoing Cardiac Surgeries.** *Joint Commission journal on quality and patient safety*  
Caruso, T. J., Wang, E. Y., Schwenk, H. n., Marquez, J. L., Cahn, J. n., Loh, L. n., Schaffer, J. n., Chen, K. n., Wood, M. n., Sharek, P. J.  
2018
- **A quality improvement initiative to optimize dosing of surgical antimicrobial prophylaxis.** *Paediatric anaesthesia*

- 
- Caruso, T. J., Wang, E., Schwenk, H. T., Scheinker, D., Yeveerino, C., Tweedy, M., Maheru, M., Sharek, P. J.  
2017; 27 (7): 702-710
- **Subacute Sclerosing Panencephalitis: The Foothold in Undervaccination** *JOURNAL OF PEDIATRICS*  
Holt, R. L., Kann, D., Rassbach, C. E., Schwenk, H. T., Ritter, J. M., Rota, P. A., Elbers, J.  
2016; 179: 259-262
  - **Anchoring Bias as a Limiting Factor in High-Value Care: A Case of Fever of Unknown Origin in a Hospitalized Child.** *Hospital pediatrics*  
Festa, N., Park, K. T., Schwenk, H.  
2016; 6 (11): 699-701
  - **Fever and Renal Failure in a Child With DiGeorge Syndrome and Tetralogy of Fallot.** *Journal of the Pediatric Infectious Diseases Society*  
Itoh, M., Kann, D. C., Schwenk, H. T., Gans, H. A.  
2015; 4 (4): 373-375
  - **Bordetella petrii Sinusitis in an Immunocompromised Adolescent.** *Pediatric infectious disease journal*  
Nagata, J. M., Charville, G. W., Klotz, J. M., Wickremasinghe, W. R., Kann, D. C., Schwenk, H. T., Longhurst, C. A.  
2015; 34 (4): 458-?
  - **Coping with college and inflammatory bowel disease: implications for clinical guidance and support.** *Inflammatory bowel diseases*  
Schwenk, H. T., Lightdale, J. R., Arnold, J. H., Goldmann, D. A., Weitzman, E. R.  
2014; 20 (9): 1618-1627
  - **Progressive multifocal leukoencephalopathy in pediatric patients: case report and literature review.** *Pediatric infectious disease journal*  
Schwenk, H., Ramirez-Avila, L., Sheu, S., Wuthrich, C., Waugh, J., Was, A., DeGirolami, U., Burchett, S., Korálnik, I. J., Ahmed, A.  
2014; 33 (4): e99-105
  - **Progressive multifocal leukoencephalopathy in pediatric patients: case report and literature review.** *Pediatric infectious disease journal*  
Schwenk, H., Ramirez-Avila, L., Sheu, S., Wuthrich, C., Waugh, J., Was, A., DeGirolami, U., Burchett, S., Korálnik, I. J., Ahmed, A.  
2014; 33 (4): e99-e105
  - **Vancomycin Use for Pediatric Clostridium difficile Infection Is Increasing and Associated with Specific Patient Characteristics** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*  
Schwenk, H. T., Graham, D. A., Sharma, T. S., Sandora, T. J.  
2013; 57 (9): 4307-4313