



Sharon F. Chen

Clinical Professor, Pediatrics - Infectious Diseases

CLINICAL OFFICE (PRIMARY)

- **Pediatric Infectious Disease**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Linda Lambert - Administrative Assistant

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Bio

CLINICAL FOCUS

- Pediatric Infectious Diseases
- Immunocompromised Hosts

ACADEMIC APPOINTMENTS

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

HONORS AND AWARDS

- Member, Alpha Omega Alpha (1999)
- Pediatric Housestaff Outstanding Fellow's Award, Stanford University (2003)
- Outstanding Faculty Educator Award, University of Minnesota (2004)
- Outstanding Faculty Educator Award, University of Minnesota (2006)
- Henry J. Kaiser Family Foundation Award for Excellence in Preclinical Teaching, Stanford University School of Medicine (2017)
- Medical Education Scholarship Award of Excellence, Department of Pediatrics, Stanford University School of Medicine (2018)

PROFESSIONAL EDUCATION

- Medical Education: Baylor College of Medicine (1996) TX
- Board Certification: Pediatric Infectious Diseases, American Board of Pediatrics (2005)
- Bachelor of Arts, University of Texas at Austin, Biology (1992)
- Residency: University of Rochester (1999) NY
- Fellowship: Stanford University Medical Center (2003) CA
- Masters of Science, Univ Minnesota Schl Public Hlth, Clinical Research (2006)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interest is in viral infections commonly affecting immunocompromised patients, investigating anti-viral immunity of these opportunistic viruses. I have a special interest in latent and persistent viruses, such as cytomegalovirus, BK virus, and adenovirus in pediatric solid organ transplant patients. I focus on the host immune response to these viral infections with the end goal of improving clinical practices. I collaborate with both individual and core viral/immunology laboratories to conduct my research.

As Co-director of the Pediatric Infectious Diseases Program in Immunocompromised Hosts (PIDPIC), I develop and conduct clinical and translational studies to improve identification, treatment and prevention of infectious diseases in the immunocompromised patient population. In collaboration with the clinical teams, we establish best practices from our clinical studies in order to improve our care for this patient population.

My scholarly work extends to medical education. I was the Curriculum Co-Chair for a multi-institution microbiology and immunology curriculum-development project (with the Robert Wood Johnson Foundation) that re-imagined teaching of a fundamental pre-clinical course. Using this new curriculum, I co-direct our microbiology & infectious diseases course using a flipped-classroom education approach with active learning tools. Additionally, I have a broad interest in assessment. With a start-up education company, I am creating a cloud-based computer-patient assessment tool called Stanford CASE (Clinical Assessment Simulation Engine). The vision is for Stanford CASE to assess a learner's thinking while deliberating through a patient case using a mixture of self-assessment and artificial intelligence-adapted scoring. I envision Stanford CASE to be used for all levels of assessments from a single course to certification board exams.

Teaching

COURSES

2023-24

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases II: INDE 265 (Aut)

2022-23

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases II: INDE 265 (Aut)

2021-22

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases II: INDE 265 (Aut)

2020-21

- Microbiology and Infectious Diseases I: INDE 263 (Win)
- Microbiology and Infectious Diseases III: INDE 265 (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Candice Kim

Publications

PUBLICATIONS

- **A Multi-Institution Collaboration to Define Core Content and Design Flexible Curricular Components for a Foundational Medical School Course: Implications for National Curriculum Reform.** *Academic medicine : journal of the Association of American Medical Colleges*
Chen, S. F., Deitz, J., Batten, J. N., DeCoste-Lopez, J., Adam, M., Alspaugh, J. A., Amieva, M. R., Becker, P., Boslett, B., Carline, J., Chin-Hong, P., Engle, D. L., Hayward, et al
2019
- **The Use of Short, Animated, Patient-Centered Springboard Videos to Underscore the Clinical Relevance of Preclinical Medical Student Education.** *Academic medicine*
Adam, M., Chen, S. F., Amieva, M., Deitz, J., Jang, H., Porwal, A., Prober, C.
2017
- **Limited Variation in BK Virus T-Cell Epitopes Revealed by Next-Generation Sequencing.** *Journal of clinical microbiology*
Sahoo, M. K., Tan, S. K., Chen, S. F., Kapusinszky, B., Concepcion, K. R., Kjelson, L., Mallemapati, K., Farina, H. M., Fernández-Viña, M., Tyan, D., Grimm, P. C., Anderson, M. W., Concepcion, et al
2015; 53 (10): 3226-3233
- **Novel protocol including liver biopsy to identify and treat CD8+ T-cell predominant acute hepatitis and liver failure.** *Pediatric transplantation*
McKenzie, R. B., Berquist, W. E., Nadeau, K. C., Louie, C. Y., Chen, S. F., Sibley, R. K., Glader, B. E., Wong, W. B., Hofmann, L. V., Esquivel, C. O., Cox, K. L.
2014; 18 (5): 503-509
- **Longitudinal Kinetics of Cytomegalovirus-specific T-cell Immunity and Viral Replication in Infants with Congenital Cytomegalovirus Infection** *Journal of the Pediatric Infectious Diseases Society*
Chen, S. F., Holmes, T. H., Slifer, T., Ramachandran, V., Mackey, S., Hebson, C., Arvin, A. M., Lewis, D. B., Dekker, C. L.
2014
- **Antiviral CD8 T cells in the control of primary human cytomegalovirus infection in early childhood** *40th Annual Meeting of the Infectious-Diseases-Society-of-America*
Chen, S. F., Tu, W. W., Sharp, M. A., Tongson, E. C., He, X. S., Greenberg, H. B., Holmes, T. H., Wang, Z. T., Kemble, G., Manganello, A. M., Adler, S. P., Dekker, C. L., Levvis, et al
UNIV CHICAGO PRESS.2004: 1619-27
- **Persistent and selective deficiency of CD4(+) T cell immunity to cytomegalovirus in immunocompetent young children** *JOURNAL OF IMMUNOLOGY*
Tu, W. W., Chen, S., Sharp, M., Dekker, C., Manganello, A. M., Tongson, E. C., Maecker, H. T., Holmes, T. H., Wang, Z. T., Kemble, G., Adler, S., Arvin, A., Lewis, et al
2004; 172 (5): 3260-3267
- **Clinical characteristics and outcomes of pediatric patients with CMV DNA detection in bronchoalveolar lavage fluid.** *Pediatric pulmonology*
Burgener, E. B., Waggoner, J., Pinsky, B. A., Chen, S. F.
2017; 52 (1): 112-118
- **Molecular and Culture-Based Bronchoalveolar Lavage Fluid Testing for the Diagnosis of Cytomegalovirus Pneumonitis.** *Open forum infectious diseases*
Tan, S. K., Burgener, E. B., Waggoner, J. J., Gajurel, K., Gonzalez, S., Chen, S. F., Pinsky, B. A.
2016; 3 (1): ofv212-?
- **Pleural Effusion and Fever in an Immunocompromised Patient.** *Journal of the Pediatric Infectious Diseases Society*
Kay, A. W., Itoh, M., Valdez, J., Chen, S. F., Mathew, R., Gans, H. A.
2015; 4 (1): e6-9
- **BK Polyomavirus Subtype III in a Pediatric Renal Transplant Patient with Nephropathy.** *Journal of clinical microbiology*
Kapusinszky, B., Chen, S. F., Sahoo, M. K., Lefterova, M. I., Kjelson, L., Grimm, P. C., Kambham, N., Concepcion, W., Pinsky, B. A.
2013; 51 (12): 4255-4258
- **Human Parvovirus B19 in Solid Organ Transplantation** *AMERICAN JOURNAL OF TRANSPLANTATION*
Eid, A. J., Chen, S. F.
2013; 13: 201-205

- **Conversion From Tacrolimus/Mycophenolic Acid to Tacrolimus/Leflunomide to Treat Cutaneous Warts in a Series of Four Pediatric Renal Allograft Recipients** *TRANSPLANTATION*
Lieuko Nguyen, L., McClellan, R. B., Chaudhuri, A., Alexander, S. R., Chen, S. F., Concepcion, W., Grimm, P.
2012; 94 (5): 450-455
- **Mycobacterium bovis disease in a pediatric renal transplant patient** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Chen, S. F., Gutierrez, K.
2006; 25 (6): 564-566
- **Staphylococcus aureus decolonization** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Chen, S. F.
2005; 24 (1): 79-80
- **Acute retinal necrosis syndrome in a child** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*
Chen, S., Weinberg, G. A.
2002; 21 (1): 78-80