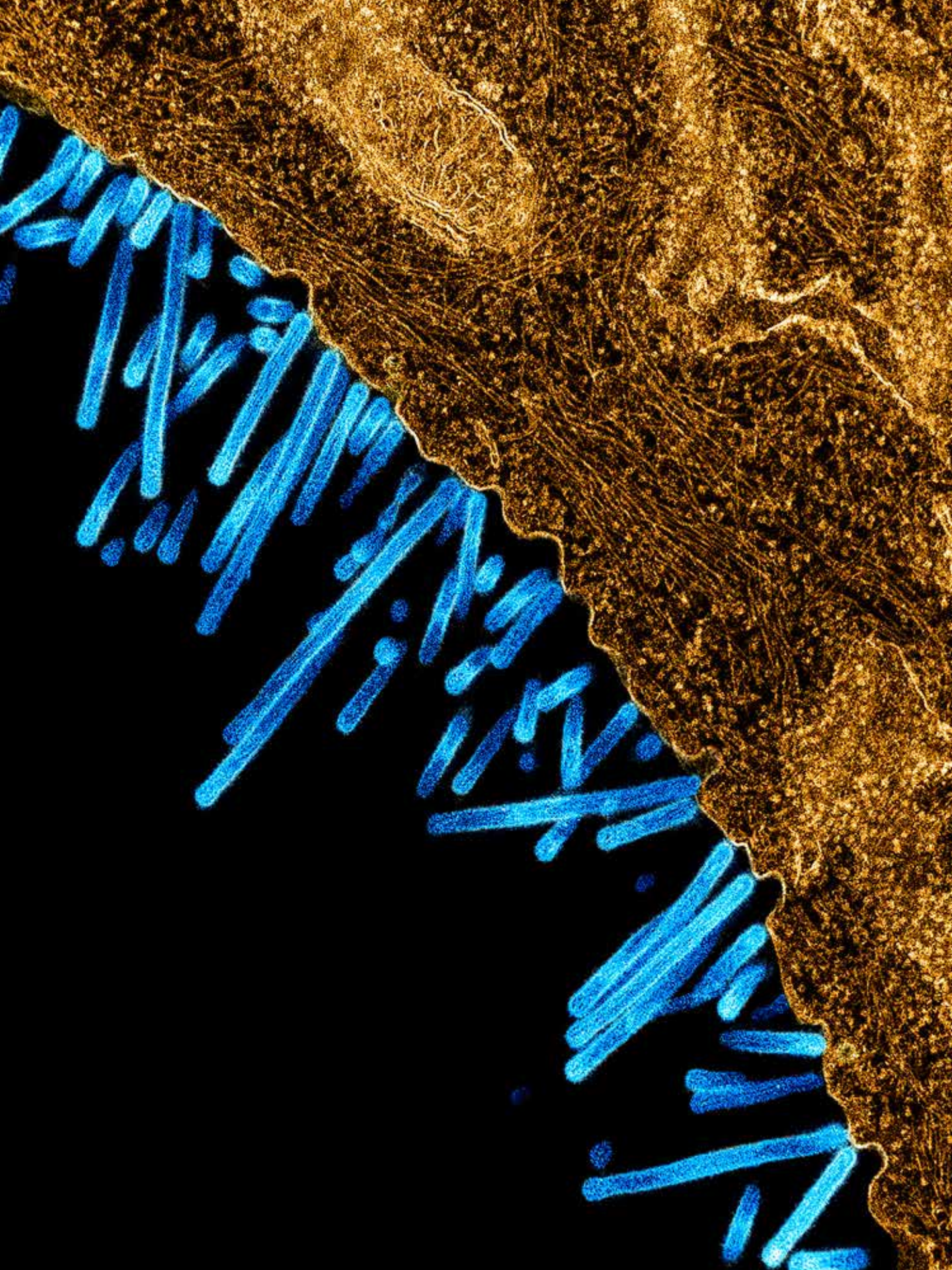


Pediatric Infectious Diseases

Fellowship Training Program





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Department of Infectious Diseases

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From the Chairs

Le Bonheur Children's Hospital, St. Jude Children's Research Hospital and the University of Tennessee Health Science Center (UTHSC) have one of the country's most unique partnerships.

Together, the three institutions work to discover, teach and care for children from around the world. Our institutions are repeatedly listed in the "Best Hospitals for Pediatric Cancer" and "Best Children's Hospital" rankings by U.S. News & World Report and carry Magnet designation. The Pediatric Infectious Diseases fellows rotate through all three institutions and will be trained at nationally recognized facilities by renowned faculty. The St. Jude program emphasizes gaining state-of-the-art expertise in the infectious complications of transplantation and cancer therapy, a skill increasingly needed in academic settings, and the management of children and adolescents living with HIV infection. The program is strongly research focused with the aim of producing highly trained physician scientists and clinical researchers. Le Bonheur's Leapfrog Top 10 facility, expansive community programs and national destination programs are among the country's best, and include 118 specialized intensive care beds, the region's only Level 1 Pediatric Trauma Center, only Level 4 Epilepsy Monitoring Unit and multiple solid organ transplant programs.

Le Bonheur, St. Jude and UTHSC have a vision for our partnership and the impact we can make in pediatrics nationally and in the lives of the children and families we help. We want outstanding candidates who see our vision and want to be part of the excellence we are building here in Memphis. We look forward to meeting you.



Elaine Tuomanen, MD

*ALSAC Endowed Chair
Department of Infectious Diseases
Director Children's Infection
Defense Center*



Jon McCullers, MD

*Professor and Chair
Pediatrics - Infectious Disease
University of Tennessee Health
Science Center*



Elisabeth Adderson, MD

*Program Director
Associate Member, Department of
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From the Program Director

Thank you for your interest in our program! Our mission is to prepare pediatricians for a successful career in academic medicine. We offer robust clinical programs targeting traditional pediatric infectious diseases and are national leaders in the care of immunocompromised patients. Our reputation as one of the very best training programs in the country is based on a quarter century of faculty and trainee excellence. We are proud to have trained clinician scientists who are leaders in virtually all areas of pediatric infectious diseases.

We practice in two beautiful, new freestanding children's hospitals that offer the latest technology and put patient care at the forefront. Training is individualized and may include electives in antimicrobial stewardship, infection prevention, global health and others. We provide didactic and pragmatic education in the principles and practice of scientific investigation, cutting edge research tools and unparalleled resources. Fellows have the opportunity to learn through formal programs leading to masters and doctoral degrees in epidemiology, public health, biomedical sciences, global child health and other disciplines, and to contribute to research projects that cross departments and institutions, including in clinical, translational and basic sciences.

The key to the success of our fellowship program is the close interaction of our fellows with our faculty and our institutions' commitment to medical education. We are delighted to share the details of our program with you and look forward to meeting you.

Program Mission

The mission of the program is to prepare pediatricians for a successful career in academic medicine. Graduates of the program will provide outstanding clinical care to children and young adults with infectious diseases, develop expertise in clinical, translational or basic research, and meet the requirements for board certification in Pediatric Infectious Diseases by the American Board of Pediatrics.

Program Goals

As a fellow, you will:

- Provide high quality, compassionate patient care
- Effectively collaborate with patients, families and other health care professionals
- Understand the biomedical, clinical, epidemiological and social-behavioral aspects of infectious disease and apply this knowledge to patient care and scholarly activity
- Appraise and assimilate scientific evidence to continuously improve patient care, based on ongoing feedback and self-evaluation
- Work in inter-professional teams to enhance patient safety and improve patient care quality

Program Description

The Pediatric Infectious Diseases Fellowship Training Program is ACGME-accredited and affiliated with the Pediatric Residency Program at the University of Tennessee Health Science Center. The training program is jointly administered by the Department of Infectious Diseases at St. Jude Children's Research Hospital and the Division of Pediatric Infectious Diseases at Le Bonheur Children's Hospital. It is one of the largest training programs in North America and offers exceptional opportunities for training in both clinical medicine and biomedical research.

Care of the immunocompromised host, antimicrobial stewardship and research are top priorities for education in pediatric infectious diseases. In addition to robust

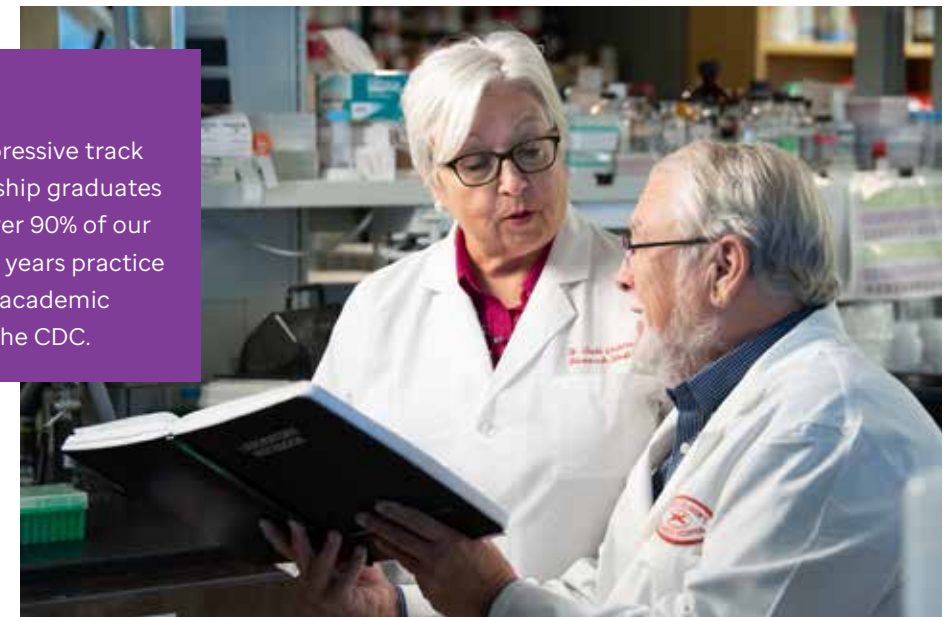
clinical programs targeting traditional pediatric infectious diseases, we are national leaders in the care of immunocompromised patients and in providing education related to this population. In response to the threat of antimicrobial resistance, both training sites have developed vigorous antimicrobial stewardship programs and integrated fellows into these teams.

Fellows rotate at Le Bonheur Children's Hospital and St. Jude Children's Research Hospital and provide consultative services to the 60-bed Sheldon Korones Newborn Center at Regional One Health Medical Center. Training is individualized, and may include electives in Antimicrobial Stewardship, Infection Prevention, Global Pediatric Medicine and others.



Program Alumni

Our program has an impressive track record of placing fellowship graduates in successful careers. Over 90% of our graduates in the past 20 years practice ID full time, including in academic medicine, industry and the CDC.



Clinical Care Sites

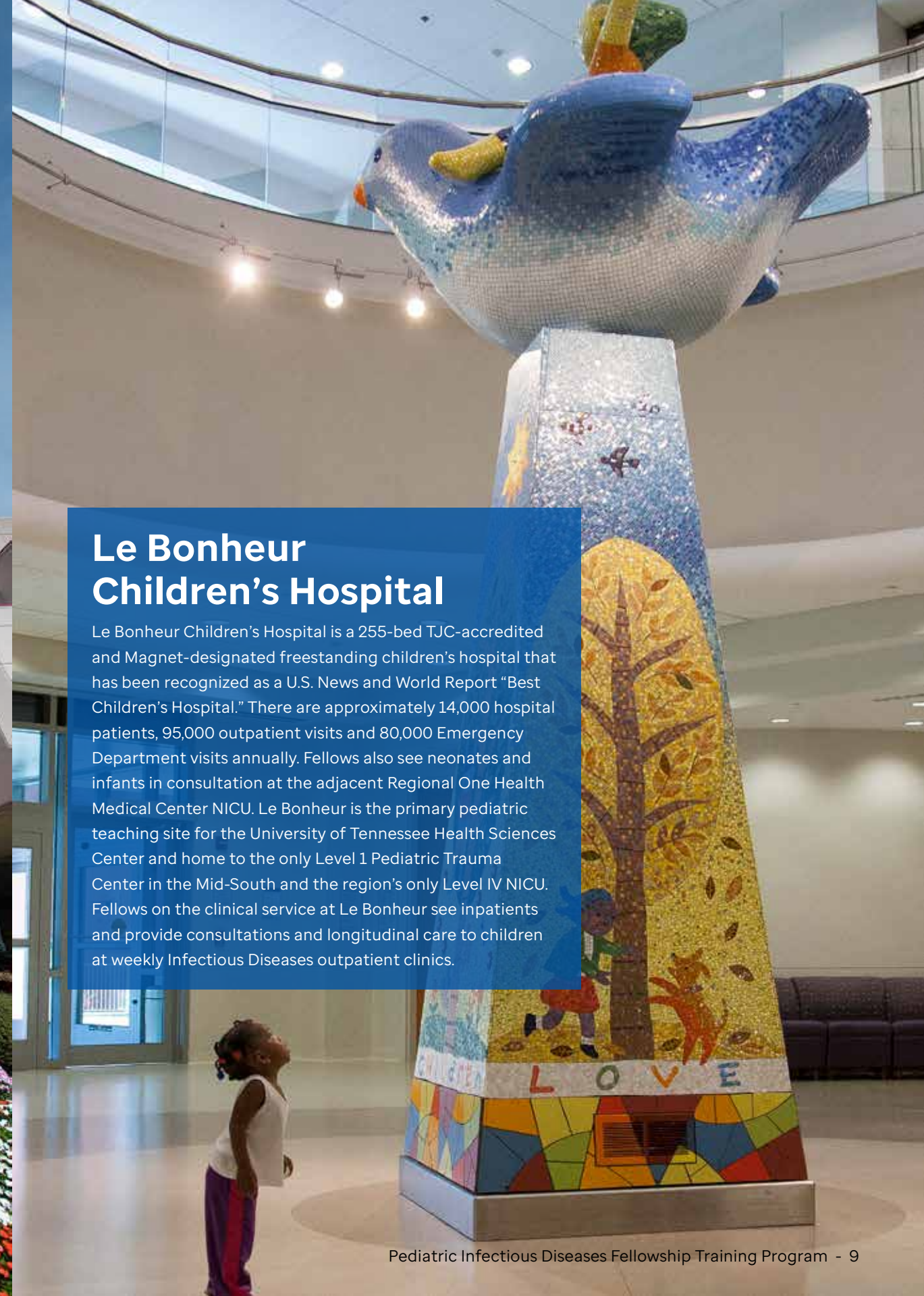
St. Jude Children's Research Hospital

St. Jude Children's Research Hospital is a 78-bed TJC-accredited and Magnet-designated freestanding hospital. It primarily serves children with cancer, non-malignant hematological disorders and HIV infection. 7,800 active patients are followed annually, mostly as outpatients. St. Jude has been named a US News and World Report Best Hospital for Pediatric Cancer. The HIV Clinical Program at St. Jude has been recognized as a Center of Excellence by the Robert Wood Johnson Foundation and is an International Maternal Pediatric Adolescent AIDS Clinical Trials (IMPACT), Adolescent Trials Network (ATN), and Pediatric HIV/AIDS Cohort Study (PHACS) study site. At St. Jude, fellows rotate with Oncology, Transplant and HIV services.



Le Bonheur Children's Hospital

Le Bonheur Children's Hospital is a 255-bed TJC-accredited and Magnet-designated freestanding children's hospital that has been recognized as a U.S. News and World Report "Best Children's Hospital." There are approximately 14,000 hospital patients, 95,000 outpatient visits and 80,000 Emergency Department visits annually. Fellows also see neonates and infants in consultation at the adjacent Regional One Health Medical Center NICU. Le Bonheur is the primary pediatric teaching site for the University of Tennessee Health Sciences Center and home to the only Level 1 Pediatric Trauma Center in the Mid-South and the region's only Level IV NICU. Fellows on the clinical service at Le Bonheur see inpatients and provide consultations and longitudinal care to children at weekly Infectious Diseases outpatient clinics.



Clinical Training

Clinical rotations at Le Bonheur and St. Jude afford fellows the opportunity to manage a tremendous variety of pediatric infectious diseases.

St. Jude and the University of Tennessee Health Science Center are nationally recognized for their care of immunocompromised children and adolescents. Our trainees benefit from this unique clinical experience, not only by providing consultative services to these patients, but by gaining understanding in how immunodeficiency impacts other aspects of clinical care, such as infection prevention and antimicrobial stewardship.

Fellows participate in a minimum of 54 weeks of clinical rotations over three years. The clinical schedule is flexible.

Typically, fellows spend approximately three months each on the consulting service at Le Bonheur and St. Jude, and four weeks on the HIV service at St. Jude in their first year, then approximately two months at each hospital over the subsequent two years. In their second year, fellows spend four weeks with the Transplant Infectious Diseases service. A two-week refresher on the HIV service is scheduled in the third year to bring fellows up to date on therapy and prevention. Programs are individualized, and may include additional rotations at either hospital and/or electives in Antimicrobial Stewardship, Infection Prevention, Global Health and others.

Fellows supervise medical students, pediatric and medicine/pediatric residents and pharmaceutical service residents rotating on infectious disease teams. Fellows take call by pager at night when on clinical rotations only, and have one day off per week (averaged monthly) during their clinical rotations.



Research Training

Fellows spend at least two-thirds of their time, primarily during their second and third years, in a protected research environment during which they have no clinical responsibilities and no call.

Fellows work with faculty and collaborators based at Le Bonheur, St. Jude, and/or the University of Tennessee in any department offering research related to infectious diseases.

Exceptional opportunities exist in clinical, translational and basic science research, including:

- St. Jude Children's Infection Defense Center
- St. Jude Pediatric AIDS Clinical Trials Unit
- World Health Organization Collaborating Center for Influenza at St. Jude
- Le Bonheur Children's Foundation Research Institute

Major research programs include the epidemiology and pathophysiology of respiratory and gastrointestinal infections and infectious diseases in immunocompromised hosts, the development of novel vaccines for respiratory viruses and pneumococcus, bacterial and viral genomics and the microbiome, HIV clinical trials, antimicrobial stewardship, and global health. Fellows have the option of participating in masters and doctoral programs in many disciplines, with tuition assistance. Extended research beyond the third year of fellowship is available for promising trainees.



Educational Activities and Conferences

Special Conferences

St. Jude/Pediatric Infectious Diseases Society (PIDS) Research Conference

Annual conference featuring presentations from leading investigators in infectious diseases and microbiology. Also includes a series of career development workshops and presentation of original research, and a global infectious diseases forum. The highlight of the conference is the Erskine Lecture, honoring a visiting leader in infectious diseases or epidemiology.

St. Jude/PIDS Pediatric Transplant ID Symposium

Offered in combination with the annual St. Jude/PIDS Research Conference, featuring presentations on transplant immunology and infections.

Pediatric HIV/AIDS Training Course

Offered biannually, this course presents evidence-based data to help health care providers optimize their practice.

Regular Conferences

ID Combined Clinical Conference

Weekly case presentations from St. Jude and Le Bonheur with discussions led by the fellow.

ID Research Conference

Work-in-progress presented by faculty and fellows.

Journal Club

Monthly fellow-led discussion of current literature with an emphasis on study design and evidence-based medicine.

Pediatric ID Review Lecture Series

Monthly didactic series based on topics suggested by fellows.

HO/ID Biostatistics Journal Club

Interdisciplinary fellow-led monthly discussion of biostatistics and study design.

Children's Infectious Defense Center Conference

Presentation of current research by CIDC members and guest experts.

HIV Lecture Series

Monthly series of HIV-related presentations by St. Jude HIV team members or outside guest speakers.

Systems-Based Seminars

Development series focused on administrative skills, community resources, ethics, and other topics related to the effective practice of medicine.

ID Division Weekly Clinical Conference

Fellow-led discussion of interesting current cases at Le Bonheur.

St. Jude Clinical Rounds

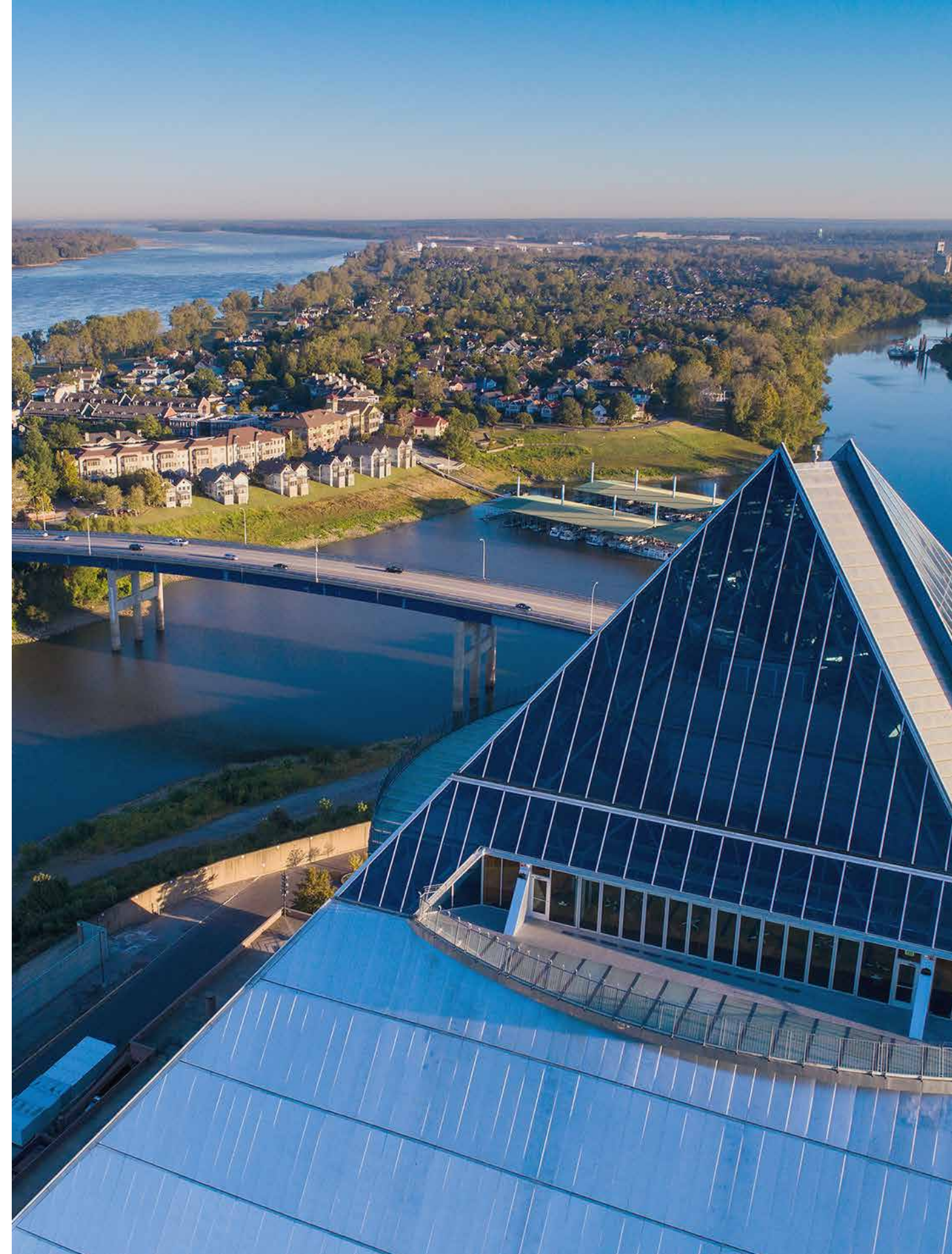
Fellow-led discussion of interesting current cases at St. Jude.

K-Club

Monthly training in study design, data analysis, grant preparation, and scientific writing.

E-Club

Monthly series on medical education and educational scholarship.





Explore Memphis

Memphis City Government
memphistn.gov

Memphis Convention and Visitors Bureau
memphistravel.com

Downtown Memphis Commission
downtownmemphis.com

I Love Memphis
ilovememphisblog.com

Shelby Farms Park
shelbyfarmspark.org

Life in Memphis

Memphis offers all the charm and hospitality of a Southern city, but also provides the cultural diversity and entertainment opportunities of a large metropolis. With a metropolitan population of more than 1 million people, Memphis retains much of the allure of a small town, yet features world-class museums, parks, music, dining and entertainment.

The cost of living in Memphis is reasonable. Affordable housing in the form of apartments, lofts and single-family homes can easily be found within a few miles of St. Jude and the UTHSC medical campus.

- Enjoy professional sporting events including the Memphis Grizzlies NBA team, the Memphis Redbirds AAA baseball team and the Memphis 901 FC USL soccer team.
- Visit Beale Street, one of the most famous music districts in the world.
- Bike through Shelby Farms, the nation's largest urban park.

- Feed the koi or enjoy some tunes at summer concerts in the Memphis Botanic Garden.
- Kayak on the Wolf River.
- Catch an impressionist exhibit or picnic on the lawn with the Memphis Symphony at the Dixon Gallery and Gardens.
- Enjoy Broadway shows at the Orpheum Theatre or concerts at the FedEx Forum, Cannon Center for the Performing Arts, the open-air amphitheater on Mud Island, Germantown Performing Arts Center or Levitt Shell.



Benefits

St. Jude offers many excellent benefits to clinical fellows.

- **Competitive Salaries** – St. Jude clinical fellows receive highly competitive stipends that are above the national average, as reported by the Association of Medical Colleges and National Institutes of Health. All fellows receive annual salary increases.
- **Sign-on Bonus** – Clinical fellows receive a \$3,000 sign-on bonus included in the first paycheck.
- **Research Allowance** – \$20,000 annually for research supplies and support.
- **Professional Development Account** – \$2,500 annually for professional development, conference travel, journal subscriptions, etc.
- **Clinical Fellow Tuition Assistance Program** – Competitive scholarship program that fully funds a related master’s degree at institutions such as Harvard, Johns Hopkins, George Washington University and Emory University.



Health Benefits and Insurance Programs

- Medical insurance (includes prescription coverage)
 - Choice plan: \$38/month–single; \$128/month–family
 - Select plan: \$76/month–single; \$244/month–family
- Vision coverage:
 - \$772/month–single
 - \$15.44/month–family
- Dental coverage:
 - \$9/month–single
 - \$18/month–family
- Group life insurance: 1.5 times the annual salary (employer paid)
- Additional life insurance: up to 3.5 times the annual salary at group rates
- Group accidental death and dismemberment insurance (employer paid)
- Dependent life insurance (employer paid)
- Long-term disability insurance (employer paid)
- Worker’s compensation

Vacation and Paid Leave

- Three weeks of vacation per year
- Eight paid holidays per year
- Two paid personal holidays per year
- Nine days of accrued sick leave per year
- Bereavement and jury duty leave
- Maternity leave

Other Benefits

- Free parking
- Free on-site fitness center, including group classes
- On-campus bike share
- On-site credit union
- On-campus dining featuring multiple themed stations with rotating menus
- Weekly farmer’s market (summer and fall)
- Convenience amenities like on-campus dry cleaning service, car detailing, massage appointments and corporate discounts

Current Faculty

Elisabeth Adderson, MD, MSc | Fellowship Program Director, Associate Member, SJCRH

Sandra Arnold, MD | Chief, Division of Infectious Disease, Professor of Pediatrics, UTHSC

Bindiya Bagga, MD | Associate Professor of Pediatrics, UTHSC

Miguela Caniza, MD, MPH | Associate Member, SJCRH

Maria Carrillo Marquez, MD | Assistant Professor of Pediatrics, UTHSC

John DeVincenzo, MD | Professor of Pediatrics, UTHSC

Pat Flynn, MD | Deputy Medical Director and Member, SJCRH

Aditya Gaur, MD | Member, SJCRH

Hana Hakim, MD | Associate Member, SJCRH

Diego Hijano, MD | Instructor, SJCRH

Nicholas Hysmith, MD | Assistant Professor of Pediatrics, UTHSC

Julia Hurwitz, PhD | Member, SJCRH

Suzanne Jackowski, PhD | Member, SJCRH

Katherine Knapp, MD | Associate Member, SJCRH

Gabriela Maron Alfaro, MD | Assistant Member, SJCRH

Elisa Margolis, MD, PhD | Assistant Member, SJCRH

Sheena Mukkada, MD | Instructor, SJCRH

Nehali Patel, MD | Staff Physician, SJCRH

Charles Rock, PhD | Member, SJCRH

Jason Rosch, PhD | Assistant Member, SJCRH

Charles Russell, PhD | Associate Member, SJCRH

Amali Samarasinghe, PhD | Assistant Professor of Pediatrics, UTHSC

Stacey Schultz-Cherry, PhD | Member, SJCRH

Elaine Tuomanen, MD | Chair, Department of Infectious Diseases, Member, SJCRH

Richard Webby, PhD | Member, SJCRH

Robert Webster, PhD | Emeritus, St. Jude Faculty

Joshua Wolf, MD | Assistant Member, SJCRH

Application Process

Each year the Pediatric Infectious Diseases Fellowship Program accepts up to three new fellows. Preference is given to candidates with interests in careers in clinical, translational or basic science research who have the potential to become successful academic subspecialists.

Eligibility

Applicants must have a MD or local equivalent and three years of postdoctoral training in pediatrics in either an ACGME-accredited pediatric residency program or an RCPSC-accredited pediatric residency program in Canada. Foreign medical graduates who have completed a non-accredited pediatric residency program may also be considered if they meet additional qualifications and conditions.

To Apply

Applications are accepted through the Electronic Residency Application Service (ERAS). If applying off-cycle, please contact the program director directly. Your application should include the following:

- Personal statement
- Curriculum vitae
- Three original letters of recommendation (submitted directly from the referee)
- USMLE transcript
- Medical school transcripts
- ECFMG Certification (if applicable)

Interviews

Interviews begin in mid-July and continue through mid-April. Interviews typically last an entire Friday and provide an opportunity to meet the faculty and current fellows and to tour both hospital facilities. The costs of the interview, including airfare, lodging and meals, are covered by the program.

