

## Pediatric Infectious Diseases Fellowship Program Objectives

### General Goals and Objectives

By the end of the Pediatric Infectious Disease Fellowship Program, all residents are expected to expand and cultivate knowledge and skills developed in previous training and to achieve the following objectives based on the six general competencies. Under the guidance and supervision of faculty, the residents will assume graded responsibility as educational experience and procedural skill are developed.

### Key of Methods

#### Teaching Methods

CT=Clinical Teaching  
 CON=Conferences  
 LEC=Lectures  
 RM=Role Modeling  
 SDL=Self Directed Learning  
 JC=Journal Club  
 BRC=Board Review Course  
 SRA=Self Reflection Activity  
 QIP=Quality Improvement Project  
 RP= Research Project  
 MEN=Mentoring  
 CBT=Case Based Teaching  
 GR=Grand Rounds  
 MM=M & M Conference  
 PLP=Personal Learning Plan

#### Evaluation Methods

FO=Focused Observation  
 360=360 Degree Evaluation  
 GR=Global Rating Form  
 CE=Fellowship Committee Evaluation  
 SITE=SITE Examination  
 EM=Evaluation Meeting  
 with Program Director

#### Frequency of Evaluation

D=Daily  
 MON=Monthly  
 2A=Semi-annually  
 A=Annually  
 ER=End of Rotation

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>GENERAL OBJECTIVES</b>			
	Provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Gather essential and accurate information about their	CT, CON, LEC,	FO	D

	patients.	RM, SDL	360 GR EM CE	A ER A 2A, A
	Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgments.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Develop and carry out patient management plans.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Counsel and educate patients and their families.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Use information technology to support patient care decisions and patient education.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Perform competently all medical and invasive procedures considered essential for the area of practice.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Provide health care services aimed at preventing health problems or maintaining health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Work with health care professionals, including those from other disciplines, to provide patient-focused care.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			

	See specific rotations for a detailed list of patient care objectives.			
Medical Knowledge	<b>GENERAL OBJECTIVES</b>			
	Demonstrate knowledge about established and evolving biomedical, clinical, and cognate sciences and the application of this knowledge to patient care.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Demonstrate an investigatory and analytic thinking approach to clinical situations.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Know and apply the basic and clinically supportive sciences which are appropriate to their discipline.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See specific rotations for a detailed list of medical knowledge objectives.			
Practice Based Learning and Improvement	<b>GENERAL OBJECTIVES</b>			
	Investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Analyze practice experience and perform practice-based improvement activities using a systematic methodology.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A

Obtain and use information about their own population of patients and the larger population of patients from which their patients are drawn.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Use information technology to manage information, access on-line medical information; and support their own education.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Facilitate the learning of students and other health care professionals.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
Evaluate patient care practices, discuss how they meet standards, and develop ways to improve these practices.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Compare clinical practice, patient safety, and quality of care with evidence based medicine.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Participate in all mandated conferences (include a list of conferences).	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Complete a QA/QI project under faculty direction.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE	A ER A A

			EM	2A, A
	Demonstrate improvement in clinical management and diagnostic assessment.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Implement new scientific advances and clinical approaches from a variety of sources into current patient care practices.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Analyze and evaluate medical literature and examine alternate sources for information that pertains to their patient's health problems.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Take responsibility for lifelong learning.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Use information technology such as Up-To-Date, PubMed or Ovid to enhance patient care.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Teach fellow residents, medical students, and interns.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Maintain appropriate records documenting practice activities (such as patient logs).	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Interpersonal and Communication Skills	<b>GENERAL OBJECTIVES</b>			
	Demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their patients' families, and professional	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR	A D ER

associates.		CE EM	A 2A, A
Create and sustain a therapeutic and ethically sound relationship with patients.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Use effective listening skills and elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Work effectively with others as a member or leader of a health care team or other professional group.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
Carefully listen to patients to assess the patient's health problems including their verbal and non-verbal communications.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Demonstrating respectful and considerate attitudes, effectively communicate with patients, families, and other health care personnel, when addressing management plans, patient issues, and especially end-of-life decisions.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Accurately present (verbally and written) a case to attending physicians, fellow residents, and other health care professionals.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Provide timely, legible, and thorough medical record documentation - histories and physical examinations, admission notes, progress notes, procedure notes and discharge summaries.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Provide education and counseling to patients, and families using non-technical and clear language. (Use non-verbal	CT, RM, MEN, CBT, GR, CON,	360 FO	A D

	and verbal communication skills)	LEC	GR CE EM	ER A 2A, A
	Demonstrate skill in handling all difficult patient care situations.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Spend adequate time with patients addressing their questions and concerns.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Work well within team consisting of students, residents, attending physicians, nurses, and patients.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Function effectively as a consultant for specialty and subspecialty care.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Represent the Pediatric Infectious Disease staff in interactions with patients and their families, acting with compassion and consideration at all times.	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Professionalism	<b>GENERAL OBJECTIVES</b>			
	Demonstrate a commitment to carrying our professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients, society that supercedes self-interest; accountability to patients, society, and the profession; and a commitment to excellence and on-going professional development.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate a commitment to ethical principles pertaining	CT, CBT, MEN,	360	A

to provision or withholding of clinical care confidentiality of patient information, informed consent, and business practices.	RM, LEC, CON	FO GR CE EM	D ER A 2A, A
Demonstrate a sensitivity and responsiveness to patients' culture, age, gender, and disabilities.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
Demonstrate respect, compassion, integrity, punctuality, reliability, and honesty with regards to patients and colleagues.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Show regard for the opinions of others.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Display initiative and leadership.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Acknowledge errors, alert patients and appropriate health care providers about the errors, and create a plan of action to minimize them.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Demonstrate concern for the educational development of students and residents.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Volunteer for activities for the good of the institution and community.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

	Ask for help when needed and accept constructive feedback.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Maintain patient confidentiality.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Compassionately respond to issues of culture, age, gender, ethnicity, and disability in patient care.	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Systems-Based Practice	<b>GENERAL OBJECTIVES</b>			
	Demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Understand how their patient care and other professional practices affect other health care professionals, the health care organization, and the larger society and how these elements of the system affect their own practice.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Practice cost-effective health care and resource allocation that does not compromise quality of care.	CT, MM, LEC, CON	360 FO GR CE	A D ER A

			EM	2A, A
	Advocate for quality patient care and assist patients in dealing with system complexities.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Know how to partner with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate ability to deliver high-quality medical care in a private, government, and inner city hospital settings.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate the knowledge of different types of medical practice and health care delivery systems and understand how this affects patient care.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate knowledge of business aspects of medical practice including coding, billing, and insurance.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Work with ancillary team members (discharge planners, case managers, and social workers) to provide high quality cost-effective care.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Use systematic approaches to reduce errors.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Practice effective allocation of health care resources to avoid compromising quality of care.	CT, MM, LEC, CON	360 FO GR	A D ER

			CE EM	A 2A, A
	Interact with patients, attending physicians and allied health care personnel as part of a health care team.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Serve as a patient advocate in the outpatient and inpatient setting.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Direct care in inpatient and outpatient settings as a member of a multidisciplinary team.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate knowledge of how the health care system including other physicians, nurses, and health care professionals affect their patient care practices.	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

By the end of the educational experience at LeBonheur Children's Medical Center, PGY-4 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Develop the basic skills to evaluate, diagnose, and treat patients with a wide variety of common acute and chronic infectious diseases including but not limited to: <ul style="list-style-type: none"> <li>• Upper respiratory tract infections</li> <li>• Lower respiratory tract infections</li> <li>• Central nervous system infections</li> <li>• Urinary tract infections</li> <li>• Cardiovascular infections</li> </ul>	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

<ul style="list-style-type: none"> <li>• Bone and joint infections</li> <li>• Skin/soft tissue/muscle infections</li> <li>• Gastrointestinal tract/intra-abdominal infections</li> <li>• Hepatic/biliary infections</li> <li>• Ocular infections</li> <li>• Reproductive tract infections</li> <li>• Sexually transmitted diseases</li> <li>• Foreign-body and catheter-related infections</li> <li>• HIV infection</li> <li>• Nosocomial infections</li> <li>• Surgical and traumatic wound infections</li> <li>• Congenital infections</li> </ul>			
Obtain complete medical history and perform physical examination approaching the level of subspecialist	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize the etiology and manage infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize arthropod-borne infections and zoonotic infections.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize the host-microorganism relationship, and recognize the consequences of disorders of host defense	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize normal flora for relevant body sites	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Develop skills to select diagnostic imaging examinations, invasive procedures, and special techniques to collect	CT, CON, LEC, RM, SDL	FO 360	D A

	specimens and identify microbes		GR EM CE	ER A 2A, A
	Discuss the risks and benefits of laboratory and diagnostic imaging procedures	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Develop knowledge to recommend treatments based on the activities, mechanism of action, routes of administration, adverse effects, major drug interactions and rough relative costs of commonly used antimicrobials	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Demonstrate proficiency in the use of antimicrobial agents and recognize factors that alter the effectiveness of these agents.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Recognize clinically significant synergistic antimicrobial combinations.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Review the currently recommended immunization schedule and appropriate modifications for specific populations	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Develop knowledge in the use of passive and active immunization, and immunomodulating agents in a variety of clinical settings, including recognizing factors that alter the effectiveness of these agents and the adverse effects attributable to these agents	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Review the principles of infection control and public health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Describe strategies to manage patient and hospital staff exposures to infectious agents or material	CT, CON, LEC, RM, SDL	FO 360	D A

			GR EM CE	ER A 2A, A
	Identify current emerging pathogens and recognize emerging infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Describe the role of genetic and environmental factors in infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Discuss the clinical manifestations of primary and secondary immunodeficiencies and manage these immunodeficiencies.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Identify the types of and indications for isolation	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Recognize the common nosocomial infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Develop techniques to determine antimicrobial agent concentrations in blood and other body fluids	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate clinical or laboratory research competence in a selected area of interest chosen by the fellow in consultation with the proposed mentor and subject to approval of the fellowship committee. The fellow will publish a hypothesis-driven, first author manuscript and be prepared to pursue independent research of scientific merit.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A

List the basic steps in an infection	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Recognize the common microbial virulence factors	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Develop the understanding of the pathophysiology, epidemiology, clinical manifestations, diagnosis, and management of infectious diseases in immunocompetent and immunocompromised children	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Develop knowledge of the principles of epidemiology and apply these to practical situations.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Review biostatistics principles and common biostatistical tests	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Develop understanding of the principles of data analysis, interpretation, and management, and tests to data analysis and interpretation in practical situations	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Discuss principles of data management including relational databases, data backup, and data security	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE	D A ER A

			CE EM	2A, A A
	Develop knowledge and skills to utilize diagnostic microbiology, immunology, virology, mycology, and parasitology laboratories (i.e., culture techniques, rapid diagnostic methods, molecular methods for identification of bacteria, mycobacteria, fungi, viruses, rickettsiae, chlamydiae, and parasites in clinical specimens)	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Develop knowledge of pharmacokinetic principles of antimicrobial therapy	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Describe the microbiological and immunologic factors that determine the outcome of the interaction between host and microbe			
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Present clinical cases at clinical and research conferences, and lead a consultation team	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Review the proper documentation of consultation charges.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Discuss the role of the consultant, provide consultation service and develop strategy for writing a well-formatted note	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Review techniques for preparing a grant, and writing and publishing a scientific manuscript	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Discuss the grant review process and the manuscript review	CT, RM, MEN,	360	A

	process	CBT, GR, CON, LEC	FO GR CE EM	D ER A 2A, A
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Review the responsibilities of conducting animal research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Develop understanding of how social, religious and emotional issues can affect the outcome of a disease, and how these issues can affect performance of staff	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Identify resources available to manage these issues	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Review medicolegal issues of consultations and committee service	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Discuss the implications of limitations in resources required to deliver optimal medical care	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Review current national and local cost containment issues	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

By the end of the educational experience at LeBonheur Children’s Medical Center, PGY-5 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year. During the second year of training, the PGY-5 resident is expected to function at the level approaching that of an independent infectious disease subspecialist.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	With skills approaching the level of a subspecialist, evaluate, diagnose, and treat patients with a wide variety of all common and more uncommon acute and chronic infectious diseases including but not limited to: <ul style="list-style-type: none"> <li>• Upper respiratory tract infections</li> <li>• Lower respiratory tract infections</li> <li>• Central nervous system infections</li> <li>• Urinary tract infections</li> <li>• Cardiovascular infections</li> <li>• Bone and joint infections</li> <li>• Skin/soft tissue/muscle infections</li> <li>• Gastrointestinal tract/intra-abdominal infections</li> <li>• Hepatic/biliary infections</li> <li>• Ocular infections</li> <li>• Reproductive tract infections</li> <li>• Sexually transmitted diseases</li> <li>• Foreign-body and catheter-related infections</li> <li>• HIV infection</li> <li>• Nosocomial infections</li> <li>• Surgical and traumatic wound infections</li> <li>• Congenital infections</li> </ul>	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Obtain comprehensive medical history and perform physical examination approaching the level of subspecialist	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Identify and describe normal flora for relevant body sites	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A	

Identify and recognize common microbial virulence factors	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Assimilate the basic steps in an infection into patient care practice	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Describe and identify arthropod-borne infections and zoonotic infections.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Assess the host-microorganism relationship, and recognize the consequences of disorders of host defense	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Appropriately utilize diagnostic microbiology, immunology, virology, mycology, and parasitology laboratories	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Select diagnostic imaging examinations, invasive procedures, and special techniques to collect specimens and identify microbes	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Analyze the risks and benefits of laboratory and diagnostic imaging procedures	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recommend treatments based on the activities, mechanism of action, routes of administration, adverse effects, major drug interactions and rough relative costs of commonly used antimicrobials	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

Refine skills in using antimicrobial agents and recognizing factors that alter the effectiveness of these agents.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Apply pharmacokinetic principles of antimicrobial therapy and recognize clinically significant synergistic antimicrobial combinations.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Apply appropriate immunization modifications for specific populations	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Demonstrate knowledge of the use of passive and active immunization, and immunomodulating agents in a variety of clinical settings, including recognizing factors that alter the effectiveness of these agents and the adverse effects attributable to these agents	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Practice the principles of infection control and public health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Manage patient and hospital staff exposures to infectious agents or material	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Identify currently emerging pathogens and recognize emerging infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Evaluate the role of genetic and environmental factors in infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

	Describe the clinical manifestations of primary and secondary immunodeficiencies and manage these immunodeficiencies.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Identify the types of and indications for isolation	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Describe the common nosocomial infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate clinical or laboratory research competence in a selected area of interest chosen by the fellow in consultation with the proposed mentor and subject to approval of the fellowship committee. The fellow will publish a hypothesis-driven, first author manuscript and be prepared to pursue independent research of scientific merit.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Discuss the pathophysiology, epidemiology, clinical manifestations, diagnosis, and management of infectious diseases in immunocompetent and immunocompromised children	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Recognize the etiology and manage infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Review the principles of epidemiology and apply these to practical situations.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A

	Review biostatistics principles and common biostatistical tests	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Apply principles of data analysis, interpretation, and management, and tests to data analysis and interpretation in practical situations	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Discuss principles of data management including relational databases, data backup, and data security	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Evaluate the effects of underlying disease states and immunosuppressive therapies on host response to infectious agents	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Develop clinical pharmacology knowledge of antimicrobial agents including drug interactions, adverse reactions, dose adjustments for abnormal physiology, and principles of pharmacokinetics and pharmacodynamics	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Demonstrate understanding for the indications of diagnostic procedures and the interpretations of the results	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Present clinical cases at clinical and research conferences	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE	A ER A

			CE EM	A 2A, A
	Participate in quality assurance/performance improvement programs and clinical outcome analysis	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Complete the proper documentation of consultation charges.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Review the process for revising and updating hospital policies and procedures through clinical committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Review the role of clinical committees and discuss the importance of serving on committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Provide consultation services and refine strategy for writing a well-formatted note	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Manage telephone consultations, “curb-side” consultations and telemedicine encounters	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Implement techniques for preparing a grant, and writing and publishing a scientific manuscript	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Review manuscripts critically	CT, RM, MEN, CBT, GR, CON,	360 FO	A D

		LEC	GR CE EM	ER A 2A, A
	Evaluate the grant review process and the manuscript review process	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Identify the responsibilities of the investigator to participants in human research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate the role of the IRB	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Integrate responsibilities of conducting animal research into research practices	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Internalize the significance of medical confidentiality, conflicts of interest, and scientific misconduct	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate an understanding of the significance of authorship of a scientific paper	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate understanding of social, religious and emotional issues that can affect the outcome of a disease into patient care practices, and how these issues can affect performance of staff	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Utilize resources available to manage these issues	CT, CBT, MEN,	360	A

		RM, LEC, CON	FO GR CE EM	D ER A 2A, A
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Apply medicolegal issues of consultations and committee service to patient care practices	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate the approximate costs of consultations and related evaluations and treatments	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Discuss the implications of limitations in resources required to deliver optimal medical care	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate current national and local cost containment issues	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

By the end of the educational experience at LeBonheur Children's Medical Center, PGY-6 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year. During the third year of training, the PGY-6 resident is expected to function at the level of an independent infectious disease subspecialist.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Assess the host-microorganism relationship, and analyze the consequences of disorders of host defense	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

<p>At the level of subspecialist, evaluate, diagnose, and treat patients with a wide variety of all common and uncommon acute and chronic infectious diseases including but not limited to:</p> <ul style="list-style-type: none"> <li>• Upper respiratory tract infections</li> <li>• Lower respiratory tract infections</li> <li>• Central nervous system infections</li> <li>• Urinary tract infections</li> <li>• Cardiovascular infections</li> <li>• Bone and joint infections</li> <li>• Skin/soft tissue/muscle infections</li> <li>• Gastrointestinal tract/intra-abdominal infections</li> <li>• Hepatic/biliary infections</li> <li>• Ocular infections</li> <li>• Reproductive tract infections</li> <li>• Sexually transmitted diseases</li> <li>• Foreign-body and catheter-related infections</li> <li>• HIV infection</li> <li>• Nosocomial infections</li> <li>• Surgical and traumatic wound infections</li> <li>• Congenital infections</li> </ul>	<p>CT, CON, LEC, RM, SDL</p>	<p>FO 360 GR EM CE</p>	<p>D A ER A 2A, A</p>
<p>Obtain complete and comprehensive medical history and perform physical examination at the level of subspecialist</p>	<p>CT, CON, LEC, RM, SDL</p>	<p>FO 360 GR EM CE</p>	<p>D A ER A 2A, A</p>
<p>Manage infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel</p>	<p>CT, CON, LEC, RM, SDL</p>	<p>FO 360 GR EM CE</p>	<p>D A ER A 2A, A</p>
<p>Appropriately utilize diagnostic microbiology, immunology, virology, mycology, and parasitology laboratories</p>	<p>CT, CON, LEC, RM, SDL</p>	<p>FO 360 GR EM CE</p>	<p>D A ER A 2A, A</p>
<p>Select diagnostic imaging examinations, invasive procedures, and special techniques to collect specimens and identify microbes</p>	<p>CT, CON, LEC, RM, SDL</p>	<p>FO 360 GR</p>	<p>D A ER</p>

			EM CE	A 2A, A
Analyze the risks and benefits of laboratory and diagnostic imaging procedures and apply to patient care practices	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Formulate treatment plans based on the activities, mechanism of action, routes of administration, adverse effects, major drug interactions and rough relative costs of commonly used antimicrobials	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Demonstrate proficiency in the use of antimicrobial agents and recognize factors that alter the effectiveness of these agents.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Apply pharmacokinetic principles of antimicrobial therapy and recognize clinically significant synergistic antimicrobial combinations.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Justify appropriate immunization modifications for specific populations	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Demonstrate proficiency in the use of passive and active immunization, and immunomodulating agents in a variety of clinical settings, including recognizing factors that alter the effectiveness of these agents and the adverse effects attributable to these agents	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Manage infection control issues threatening public health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Manage patient and hospital staff exposures to infectious agents or material	CT, CON, LEC, RM, SDL	FO 360		D A

			GR EM CE	ER A 2A, A
	Evaluate and manage emerging pathogens and emerging infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate the role of genetic and environmental factors in infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate and manage primary and secondary immunodeficiencies.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Prescribe different types of isolation	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate and manage all common and uncommon nosocomial infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate clinical or laboratory research competence in a selected area of interest chosen by the fellow in consultation with the proposed mentor and subject to approval of the fellowship committee. The fellow will publish a hypothesis-driven, first author manuscript and be prepared to pursue independent research of scientific merit.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Demonstrate sophisticated knowledge of the pathophysiology, epidemiology, clinical manifestations, diagnosis, and management of infectious diseases in immunocompetent and immunocompromised children	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE	D A ER A 2A, A

			EM	A
	Evaluate the etiology of infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Apply the principles of epidemiology to practical situations.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Evaluate biostatistics principles and utilize common biostatistical tests	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Apply principles of data analysis, interpretation, and management, and tests to data analysis and interpretation in practical situations	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Appropriately utilize data management including relational databases, data backup, and data security	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Demonstrate an understanding of adverse events attributed to specific immunizations and immunomodulators	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Integrate public health issues pertinent to pediatric infectious diseases into patient care practices	CT, LEC, CON, JC, BRC, SDL	FO 360 GR	D A ER

			SITE CE EM	A 2A, A A
	Describe the sensitivity, specificity, efficacy, benefits, and risks of contemporary technologies, such as those for rapid microbiologic diagnosis and for diagnostic imaging	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Lead a consultation team	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Organize quality assurance/performance improvement programs and clinical outcome analysis	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Revise and update hospital policies and procedures through clinical committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Serve on clinical committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Provide consultation service and write a well-formatted note	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Prepare a grant	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE	A D ER A

			EM	2A, A
	Edit manuscripts critically	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Write and publish a hypothesis-driven, first author manuscript	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Identify the responsibilities of the investigator to participants in human research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Analyze the role of the IRB	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Conduct animal research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Apply aspects of medical confidentiality, conflicts of interest, and scientific misconduct to patient care and research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Analyze how social, religious and emotional issues can affect the outcome of a disease, and how these issues can affect performance of staff	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Implement strategies to manage these issues during patient care	CT, CBT, MEN, RM, LEC, CON	360 FO GR	A D ER

			CE EM	A 2A, A
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Integrate medicolegal issues of consultations and committee service into patient care practices	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate the approximate costs of consultations and related evaluations and treatments	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Discuss the implications of limitations in resources required to deliver optimal medical care	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Apply current national and local cost containment issues to patient care practices	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

By the end of the educational experience at St. Jude Children’s Research Hospital, PGY-4 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Develop the basic skills to evaluate, diagnose, and treat patients with a wide variety of common acute and chronic infectious diseases including but not limited to: <ul style="list-style-type: none"> <li>• Upper respiratory tract infections</li> <li>• Lower respiratory tract infections</li> <li>• Central nervous system infections</li> </ul>	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

<ul style="list-style-type: none"> <li>• Urinary tract infections</li> <li>• Cardiovascular infections</li> <li>• Bone and joint infections</li> <li>• Skin/soft tissue/muscle infections</li> <li>• Gastrointestinal tract/intra-abdominal infections</li> <li>• Hepatic/biliary infections</li> <li>• Ocular infections</li> <li>• Reproductive tract infections</li> <li>• Sexually transmitted diseases</li> <li>• Foreign-body and catheter-related infections</li> <li>• HIV infection</li> <li>• Nosocomial infections</li> <li>• Surgical and traumatic wound infections</li> <li>• Congenital infections</li> </ul>			
Obtain complete medical history and perform physical examination approaching the level of subspecialist	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize the etiology and manage infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize arthropod-borne infections and zoonotic infections.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize the host-microorganism relationship, and recognize the consequences of disorders of host defense	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize normal flora for relevant body sites	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

Develop skills to select diagnostic imaging examinations, invasive procedures, and special techniques to collect specimens and identify microbes	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Discuss the risks and benefits of laboratory and diagnostic imaging procedures	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Develop knowledge to recommend treatments based on the activities, mechanism of action, routes of administration, adverse effects, major drug interactions and rough relative costs of commonly used antimicrobials	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Demonstrate proficiency in the use of antimicrobial agents and recognize factors that alter the effectiveness of these agents.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Recognize clinically significant synergistic antimicrobial combinations.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Review the currently recommended immunization schedule and appropriate modifications for specific populations	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Develop knowledge in the use of passive and active immunization, and immunomodulating agents in a variety of clinical settings, including recognizing factors that alter the effectiveness of these agents and the adverse effects attributable to these agents	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Review the principles of infection control and public health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

	Describe strategies to manage patient and hospital staff exposures to infectious agents or material	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Identify current emerging pathogens and recognize emerging infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Describe the role of genetic and environmental factors in infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Discuss the clinical manifestations of primary and secondary immunodeficiencies and manage these immunodeficiencies.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Identify the types of and indications for isolation	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Recognize the common nosocomial infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Develop techniques to determine antimicrobial agent concentrations in blood and other body fluids	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate clinical or laboratory research competence in a selected area of interest chosen by the fellow in consultation with the proposed mentor and subject to approval of the fellowship committee. The fellow will	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE	D A ER A

publish a hypothesis-driven, first author manuscript and be prepared to pursue independent research of scientific merit.		CE EM	2A, A A
List the basic steps in an infection	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Recognize the common microbial virulence factors	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Develop the understanding of the pathophysiology, epidemiology, clinical manifestations, diagnosis, and management of infectious diseases in immunocompetent and immunocompromised children	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Develop knowledge of the principles of epidemiology and apply these to practical situations.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Review biostatistics principles and common biostatistical tests	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Develop understanding of the principles of data analysis, interpretation, and management, and tests to data analysis and interpretation in practical situations	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Discuss principles of data management including relational databases, data backup, and data security	CT, LEC, CON, JC, BRC, SDL	FO 360	D A

			GR SITE CE EM	ER A 2A, A A
	Develop knowledge and skills to utilize diagnostic microbiology, immunology, virology, mycology, and parasitology laboratories (i.e., culture techniques, rapid diagnostic methods, molecular methods for identification of bacteria, mycobacteria, fungi, viruses, rickettsiae, chlamydiae, and parasites in clinical specimens)	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Develop knowledge of pharmacokinetic principles of antimicrobial therapy	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Describe the microbiological and immunologic factors that determine the outcome of the interaction between host and microbe			
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Present clinical cases at clinical and research conferences, and lead a consultation team	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Review the proper documentation of consultation charges.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Discuss the role of the consultant, provide consultation service and develop strategy for writing a well-formatted note	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Review techniques for preparing a grant, and writing and publishing a scientific manuscript	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE	A D ER A

			EM	2A, A
	Discuss the grant review process and the manuscript review process	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Review the responsibilities of conducting animal research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Develop understanding of how social, religious and emotional issues can affect the outcome of a disease, and how these issues can affect performance of staff	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Identify resources available to manage these issues	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Review medicolegal issues of consultations and committee service	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Discuss the implications of limitations in resources required to deliver optimal medical care	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Review current national and local cost containment issues	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

By the end of the educational experience at St. Jude Children’s Research Hospital, PGY-5 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year. During the second year of training, the PGY-5 resident is expected to function at the level approaching that of an independent infectious disease subspecialist.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	With skills approaching the level of a subspecialist, evaluate, diagnose, and treat patients with a wide variety of all common and more uncommon acute and chronic infectious diseases including but not limited to: <ul style="list-style-type: none"> <li>• Upper respiratory tract infections</li> <li>• Lower respiratory tract infections</li> <li>• Central nervous system infections</li> <li>• Urinary tract infections</li> <li>• Cardiovascular infections</li> <li>• Bone and joint infections</li> <li>• Skin/soft tissue/muscle infections</li> <li>• Gastrointestinal tract/intra-abdominal infections</li> <li>• Hepatic/biliary infections</li> <li>• Ocular infections</li> <li>• Reproductive tract infections</li> <li>• Sexually transmitted diseases</li> <li>• Foreign-body and catheter-related infections</li> <li>• HIV infection</li> <li>• Nosocomial infections</li> <li>• Surgical and traumatic wound infections</li> <li>• Congenital infections</li> </ul>	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Obtain comprehensive medical history and perform physical examination approaching the level of subspecialist	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Identify and describe normal flora for relevant body sites	CT, CON, LEC, RM, SDL	FO 360 GR EM	D A ER A	

			CE	2A, A
	Identify and recognize common microbial virulence factors	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Assimilate the basic steps in an infection into patient care practice	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Describe and identify arthropod-borne infections and zoonotic infections.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Assess the host-microorganism relationship, and recognize the consequences of disorders of host defense	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Appropriately utilize diagnostic microbiology, immunology, virology, mycology, and parasitology laboratories	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Select diagnostic imaging examinations, invasive procedures, and special techniques to collect specimens and identify microbes	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Analyze the risks and benefits of laboratory and diagnostic imaging procedures	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Recommend treatments based on the activities, mechanism of action, routes of administration, adverse effects, major drug interactions and rough relative costs of commonly used antimicrobials	CT, CON, LEC, RM, SDL	FO 360 GR EM	D A ER A

			CE	2A, A
	Refine skills in using antimicrobial agents and recognizing factors that alter the effectiveness of these agents.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Apply pharmacokinetic principles of antimicrobial therapy and recognize clinically significant synergistic antimicrobial combinations.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Apply appropriate immunization modifications for specific populations	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Demonstrate knowledge of the use of passive and active immunization, and immunomodulating agents in a variety of clinical settings, including recognizing factors that alter the effectiveness of these agents and the adverse effects attributable to these agents	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Practice the principles of infection control and public health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Manage patient and hospital staff exposures to infectious agents or material	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Identify currently emerging pathogens and recognize emerging infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate the role of genetic and environmental factors in infections	CT, CON, LEC, RM, SDL	FO 360 GR EM	D A ER A

			CE	2A, A
	Describe the clinical manifestations of primary and secondary immunodeficiencies and manage these immunodeficiencies.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Identify the types of and indications for isolation	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Describe the common nosocomial infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate clinical or laboratory research competence in a selected area of interest chosen by the fellow in consultation with the proposed mentor and subject to approval of the fellowship committee. The fellow will publish a hypothesis-driven, first author manuscript and be prepared to pursue independent research of scientific merit.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Discuss the pathophysiology, epidemiology, clinical manifestations, diagnosis, and management of infectious diseases in immunocompetent and immunocompromised children	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Recognize the etiology and manage infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Review the principles of epidemiology and apply these to practical situations.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE	D A ER A 2A, A

			EM	A
	Review biostatistics principles and common biostatistical tests	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Apply principles of data analysis, interpretation, and management, and tests to data analysis and interpretation in practical situations	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Discuss principles of data management including relational databases, data backup, and data security	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Evaluate the effects of underlying disease states and immunosuppressive therapies on host response to infectious agents	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Develop clinical pharmacology knowledge of antimicrobial agents including drug interactions, adverse reactions, dose adjustments for abnormal physiology, and principles of pharmacokinetics and pharmacodynamics	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Demonstrate understanding for the indications of diagnostic procedures and the interpretations of the results	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Present clinical cases at clinical and research conferences	SRA, LEC, CON, QIP, JC, RP, CT,	360 GR	A ER

		RM	SITE CE EM	A A 2A, A
	Participate in quality assurance/performance improvement programs and clinical outcome analysis	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Complete the proper documentation of consultation charges.	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Review the process for revising and updating hospital policies and procedures through clinical committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Review the role of clinical committees and discuss the importance of serving on committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
Interpersonal and Communication Skills	Provide consultation services and refine strategy for writing a well-formatted note	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Manage telephone consultations, “curb-side” consultations and telemedicine encounters	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Implement techniques for preparing a grant, and writing and publishing a scientific manuscript	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Review manuscripts critically	CT, RM, MEN,	360	A

		CBT, GR, CON, LEC	FO GR CE EM	D ER A 2A, A
	Evaluate the grant review process and the manuscript review process	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Identify the responsibilities of the investigator to participants in human research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate the role of the IRB	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Integrate responsibilities of conducting animal research into research practices	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Internalize the significance of medical confidentiality, conflicts of interest, and scientific misconduct	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate an understanding of the significance of authorship of a scientific paper	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Demonstrate understanding of social, religious and emotional issues that can affect the outcome of a disease into patient care practices, and how these issues can affect performance of staff	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

	Utilize resources available to manage these issues	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Apply medicolegal issues of consultations and committee service to patient care practices	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate the approximate costs of consultations and related evaluations and treatments	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Discuss the implications of limitations in resources required to deliver optimal medical care	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate current national and local cost containment issues	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A

By the end of the educational experience at St. Jude Children’s Research Hospital, PGY-6 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year. During the third year of training, the PGY-6 resident is expected to function at the level of an independent infectious disease subspecialist.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Assess the host-microorganism relationship, and analyze the consequences of disorders of host defense	CT, CON, LEC, RM, SDL	FO 360 GR EM	D A ER A

			CE	2A, A
At the level of subspecialist, evaluate, diagnose, and treat patients with a wide variety of all common and uncommon acute and chronic infectious diseases including but not limited to:	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
<ul style="list-style-type: none"> <li>• Upper respiratory tract infections</li> <li>• Lower respiratory tract infections</li> <li>• Central nervous system infections</li> <li>• Urinary tract infections</li> <li>• Cardiovascular infections</li> <li>• Bone and joint infections</li> <li>• Skin/soft tissue/muscle infections</li> <li>• Gastrointestinal tract/intra-abdominal infections</li> <li>• Hepatic/biliary infections</li> <li>• Ocular infections</li> <li>• Reproductive tract infections</li> <li>• Sexually transmitted diseases</li> <li>• Foreign-body and catheter-related infections</li> <li>• HIV infection</li> <li>• Nosocomial infections</li> <li>• Surgical and traumatic wound infections</li> <li>• Congenital infections</li> </ul>				
Obtain complete and comprehensive medical history and perform physical examination at the level of subspecialist	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Manage infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A
Appropriately utilize diagnostic microbiology, immunology, virology, mycology, and parasitology laboratories	CT, CON, LEC, RM, SDL	FO 360 GR EM CE		D A ER A 2A, A

Select diagnostic imaging examinations, invasive procedures, and special techniques to collect specimens and identify microbes	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Analyze the risks and benefits of laboratory and diagnostic imaging procedures and apply to patient care practices	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Formulate treatment plans based on the activities, mechanism of action, routes of administration, adverse effects, major drug interactions and rough relative costs of commonly used antimicrobials	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Demonstrate proficiency in the use of antimicrobial agents and recognize factors that alter the effectiveness of these agents.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Apply pharmacokinetic principles of antimicrobial therapy and recognize clinically significant synergistic antimicrobial combinations.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Justify appropriate immunization modifications for specific populations	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Demonstrate proficiency in the use of passive and active immunization, and immunomodulating agents in a variety of clinical settings, including recognizing factors that alter the effectiveness of these agents and the adverse effects attributable to these agents	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Manage infection control issues threatening public health.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A

	Manage patient and hospital staff exposures to infectious agents or material	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate and manage emerging pathogens and emerging infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate the role of genetic and environmental factors in infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate and manage primary and secondary immunodeficiencies.	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Prescribe different types of isolation	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
	Evaluate and manage all common and uncommon nosocomial infections	CT, CON, LEC, RM, SDL	FO 360 GR EM CE	D A ER A 2A, A
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate clinical or laboratory research competence in a selected area of interest chosen by the fellow in consultation with the proposed mentor and subject to approval of the fellowship committee. The fellow will publish a hypothesis-driven, first author manuscript and be prepared to pursue independent research of scientific merit.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Demonstrate sophisticated knowledge of the pathophysiology, epidemiology, clinical manifestations, diagnosis, and management of infectious diseases in	CT, LEC, CON, JC, BRC, SDL	FO 360 GR	D A ER

	immunocompetent and immunocompromised children		SITE CE EM	A 2A, A A
	Evaluate the etiology of infections responsible for common syndromes, both systemic and by organ system, as well as infections prevalent in particular age groups, immunocompromised hosts, and geographic locations, including travel	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Apply the principles of epidemiology to practical situations.	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Evaluate biostatistics principles and utilize common biostatistical tests	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Apply principles of data analysis, interpretation, and management, and tests to data analysis and interpretation in practical situations	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Appropriately utilize data management including relational databases, data backup, and data security	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Demonstrate an understanding of adverse events attributed to specific immunizations and immunomodulators	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
	Integrate public health issues pertinent to pediatric	CT, LEC, CON,	FO	D

	infectious diseases into patient care practices	JC, BRC, SDL	360 GR SITE CE EM	A ER A 2A, A A
	Describe the sensitivity, specificity, efficacy, benefits, and risks of contemporary technologies, such as those for rapid microbiologic diagnosis and for diagnostic imaging	CT, LEC, CON, JC, BRC, SDL	FO 360 GR SITE CE EM	D A ER A 2A, A A
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Lead a consultation team	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Organize quality assurance/performance improvement programs and clinical outcome analysis	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Revise and update hospital policies and procedures through clinical committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
	Serve on clinical committees	SRA, LEC, CON, QIP, JC, RP, CT, RM	360 GR SITE CE EM	A ER A A 2A, A
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Provide consultation service and write a well-formatted note	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Prepare a grant	CT, RM, MEN, CBT, GR, CON,	360 FO	A D

		LEC	GR CE EM	ER A 2A, A
	Edit manuscripts critically	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
	Write and publish a hypothesis-driven, first author manuscript	CT, RM, MEN, CBT, GR, CON, LEC	360 FO GR CE EM	A D ER A 2A, A
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Identify the responsibilities of the investigator to participants in human research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Analyze the role of the IRB	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Conduct animal research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Apply aspects of medical confidentiality, conflicts of interest, and scientific misconduct to patient care and research	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Analyze how social, religious and emotional issues can affect the outcome of a disease, and how these issues can affect performance of staff	CT, CBT, MEN, RM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Implement strategies to manage these issues during patient	CT, CBT, MEN,	360	A

	care	RM, LEC, CON	FO GR CE EM	D ER A 2A, A
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Integrate medicolegal issues of consultations and committee service into patient care practices	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Evaluate the approximate costs of consultations and related evaluations and treatments	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Discuss the implications of limitations in resources required to deliver optimal medical care	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A
	Apply current national and local cost containment issues to patient care practices	CT, MM, LEC, CON	360 FO GR CE EM	A D ER A 2A, A