

Infectious Disease – Goals & Objectives

- **Participating Site(s):** General Internal Medicine Clinic (outpatient); Inpatient ID service; ID office; Microbiology lab
- **Duration:** 2-4 weeks
- **Required or Elective:** Required

Rotation Overview

This rotation provides residents with structured inpatient and outpatient experience in the evaluation, diagnosis, and management of infectious diseases. The experience emphasizes diagnostic reasoning, antimicrobial stewardship, management of complex and severe infections, infection prevention, interdisciplinary collaboration, and application of evidence-based guidelines across diverse clinical settings.

Overall Rotation Goal

The goal of this rotation is for residents to progressively demonstrate the knowledge, clinical skills, and clinical judgment necessary to diagnose and manage common and complex infectious diseases, initiate timely treatment of severe infections, and apply principles of antimicrobial stewardship and infection prevention.

Educational Objectives (Aligned with ACGME Competencies)

Patient Care

Residents will be able to:

- Evaluate patients with suspected or confirmed infectious diseases and formulate prioritized differential diagnoses
- Diagnose and initiate management for severe and life-threatening infections, including sepsis, meningitis, necrotizing soft tissue infections, and diabetic foot infections
- Develop evidence-based treatment plans for bacterial, viral, fungal, and mycobacterial infections under appropriate supervision
- Apply principles of infection prevention, including HIV prevention, latent tuberculosis screening, and peri-procedural infection risk assessment

Medical Knowledge

Residents will be able to:

- Explain the pathophysiology, clinical presentation, and diagnostic evaluation of common and high-risk infectious diseases
- Interpret microbiologic data, including blood cultures, susceptibility testing, and molecular diagnostics
- Apply antimicrobial stewardship principles, including appropriate antibiotic selection, dosing, duration, and drug–drug interaction management
- Recognize opportunistic infections and infections associated with immunocompromised states

Practice-Based Learning and Improvement

Residents will be able to:

- Identify personal learning gaps related to infectious diseases and antimicrobial management
- Incorporate current clinical guidelines and evidence-based literature into patient care decisions

- Reflect on patient outcomes and integrate feedback to improve diagnostic accuracy and treatment effectiveness

Interpersonal and Communication Skills

Residents will be able to:

- Communicate diagnostic impressions and treatment recommendations clearly to primary teams and patients
- Present consult cases concisely during rounds and interdisciplinary discussions
- Collaborate effectively with infectious disease faculty, pharmacy, microbiology, nursing, and ancillary services

Professionalism

Residents will be able to:

- Demonstrate accountability, reliability, and respect in managing consultative responsibilities
- Recognize personal limitations and seek appropriate supervision
- Maintain ethical standards and patient confidentiality, particularly in sensitive infectious disease diagnoses

Systems-Based Practice

Residents will be able to:

- Utilize diagnostic testing and antimicrobial therapy appropriately to deliver high-value care
- Coordinate care across inpatient, outpatient, and community settings
- Apply infection prevention and public health principles in clinical decision-making

PGY-Level Expectations

PGY-1:

- Identify common infectious diseases and communicate assessment findings under direct supervision
- Participate in consult evaluations and initial management recommendations

PGY-2:

- Develop prioritized differential diagnoses and propose diagnostic and treatment plans with indirect supervision
- Interpret microbiologic data and apply guideline-based antimicrobial therapy

PGY-3:

- Independently manage routine infectious disease consults with attending oversight
- Advise primary teams on complex diagnostic questions, antimicrobial selection, and duration of therapy
- Understand the fundamentals of antimicrobial stewardship

Teaching and Learning Activities

- Inpatient infectious disease consults and daily rounds
- Outpatient Infectious Disease clinic or CARE Center participation (minimum one week)
- Morning didactic lectures (mandatory)
- Case-based discussions and interdisciplinary rounds with Microbiology, Immunology, and Pathology (as scheduled)
- Resident case presentations at noon conference

Evaluation and Feedback

Resident performance is evaluated through:

- Direct faculty observation
- Ongoing formative feedback from attending physicians
- End-of-rotation faculty evaluation
- Milestone-based assessment tools

Residents receive ongoing formative feedback and summative feedback at the conclusion of the rotation.

Supervision

Faculty supervision is provided in accordance with ACGME supervision guidelines and is based on resident demonstrated competence, PGY level, and patient acuity.