



STRIVE Education Syllabus



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States Targeting Reduction in Infections via Engagement





Over the next 12 months, participating facilities will receive technical assistance in a variety of forms. Developed by national infection prevention experts, the STRIVE curriculum focuses on foundational and healthcare-associated infection (HAI)-specific prevention practices. Educational content is divided into three phases: onboarding, the foundational infection prevention strategies and education targeted to the four HAIs—*Clostridium difficile* infection (CDI), methicillin-resistant *Staphylococcus aureus* (MRSA) bacteremia, central line-associated bloodstream infections (CLABSIs) and catheter-associated urinary tract infections (CAUTIs). The learning formats include live webinars, on-demand courses and live learning action forums (LAFs), as well as the promotion and explanation of the Centers for Disease Control and Prevention’s (CDC) infection prevention tools and resources. All STRIVE educational content is available on the [STRIVE website](#) on the [Education tab](#).

Onboarding

Onboarding is the first phase of the educational program and consists of four one-hour live webinars. Onboarding will provide a program overview, introduce the state partner structure, highlight program requirements and resources, and discuss how hospitals can use the Infection Control Assessment and Response (ICAR) to help drive infection prevention efforts. This material is intended for those individuals that will be leading the STRIVE project at their hospital. Archived onboarding recordings and presentation slides are available for viewing under the [Onboarding Section](#) of the [Education tab](#) of the [STRIVE website](#).

- **Onb1: States Targeting Reduction in Infections via Engagement (STRIVE): A Program Overview**
Onboarding 1 outlines the impetus for the STRIVE program, explains the benefits and requirements of program participation and describes how partnerships and collaboration can help reduce HAIs.
- **Onb2: Using an Infection Control Assessment and Response (ICAR) Approach**
Onboarding 2 is designed to help participants understand the CDC’s ICAR approach to infection prevention and how this assessment along with tracking outcome and process data can be used to drive change.
- **Onb3: Connecting the Dots: Using Program Tools and Resources**
Onboarding 3 will help participants identify how to navigate through the eLearning platform, on-demand educational courses, and project extranet. This webinar highlights various tools and resources available to participating hospitals.
- **Onb4: Team Formation: Engaging Members and Leading Your Team**
Onboarding 4 discusses the necessity of having multidisciplinary teams lead infection prevention initiatives, as one individual or department cannot do the work alone. This webinar will share how to apply team-building principles, recommend individuals to include on the core implementation team and identify how state organizations can be partners in infection prevention.



Foundational Infection Prevention Strategies

The second educational phase is comprised of on-demand courses that address both the technical and adaptive foundational elements of infection prevention. Each course is broken into two to four shorter modules, to allow teams and hospitals to tailor their education based on gaps highlighted by their ICAR and/or Practice Change Assessment (PCA) results. These smaller modules may be appropriate to use for new employee or annual staff infection prevention training.

There are two methods for accessing STRIVE foundational infection prevention strategies on-demand courses on the [STRIVE website](#), direct access or through an eLearning account to track completion to be eligible to receive continuing nursing education (CNE) contact hours.

Option 1. All modules are available without logging in. By clicking on “[I don’t want CNE \(Direct access\)](#),” you will be taken to a page on the website where all of the modules are housed. Any module can be viewed by clicking “View Now” under the desired content and the module will open.

Option 2. If you are interested in receiving CNE contact hours for completing the foundational on-demand modules, you can view the modules in the eLearning platform. By clicking on “[I want CNE \(Login required\)](#),” you will be taken to a page on the website where all of the on-demand modules are housed in the eLearning platform. For more information, review the [CNE Contact Hours and Setting up an eLearning Account](#) section.

Competency-Based Training, Audits and Feedback

- **CBT101: Competency-Based Training for Infection Prevention**
 - ❖ *Module Length:* 20 minutes
 - ❖ *Presenter:* [Shannon Davila, RN, MSN, CIC CPHQ](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators
 - ❖ CBT101 defines competency-based training and describes key components to consider when designing infection prevention training.
- **CBT102: Using Audits to Monitor Infection Prevention Practices**
 - ❖ *Module Length:* 14 minutes
 - ❖ *Presenter:* [Shannon Davila, RN, MSN, CIC CPHQ](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators, Nurse Managers
 - ❖ CBT102 describes the importance of conducting infection prevention audits and how audits can be performed and implemented as part of an infection prevention surveillance program.
- **CBT103: Giving Infection Prevention Feedback**
 - ❖ *Module Length:* 15 minutes
 - ❖ *Presenter:* [Milisa Manojlovich, PhD, RN, CCRN](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators, Nurse Managers
 - ❖ CBT103 highlights essential components of effective feedback and discusses strategies to deliver feedback effectively.

Hand Hygiene

- **HH101: Core Concepts for Hand Hygiene: Clean Hands for Health Care Personnel**
 - ❖ *Module Length:* 15 minutes
 - ❖ *Presenter:* [Russel Olmsted, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, All Staff, Patient and Family Advisors
 - ❖ HH101 reviews the critical role of hand hygiene as a foundation for preventing HAIs and reviews proper hand hygiene technique as well as the key moments to perform hand hygiene.



- **HH102: Hand Hygiene: Education, Monitoring and Feedback**
 - ❖ *Module Length:* 20 minutes
 - ❖ *Presenter:* [Laraine Washer, MD](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators, Nurse Managers, Environmental Services Manager
 - ❖ HH102 illustrates different methods to use to monitor hand hygiene adherence and components to include on monitoring tools and feedback reports about hand hygiene compliance.
- **HH103: Identifying Motivators for Hand Hygiene: External and Internal Factors**
 - ❖ *Module Length:* 25 minutes
 - ❖ *Presenter:* [Heather Gilmartin, NP, PhD, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators, Nurse Managers, Environmental Services Manager
 - ❖ HH103 discusses common barriers to the performance of hand hygiene and how external and internal motivators can influence infection prevention behaviors.

Personal Protective Equipment

- **PPE101: The Basics of Standard Precautions**
 - ❖ *Module Length:* 17 minutes
 - ❖ *Presenter:* [Karen Jones, RN, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, All Staff, Patient and Family Advisors
 - ❖ PPE101 identifies the key principles of Standard Precautions practice in the health care environment and reviews appropriate and effective personal protective equipment (PPE) use.
- **PPE102: Transmission-Based Precautions**
 - ❖ *Module Length:* 15 minutes
 - ❖ *Presenter:* [Karen Jones, RN, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, All Staff, Patient and Family Advisors
 - ❖ PPE102 describes the different types of Transmission-Based Precautions, the PPE that should be used for these enhanced precautions, and how to implement and apply these practices.
- **PPE103: Personal Protective Equipment: Training and Coaching Frontline Health Care Professionals**
 - ❖ *Module Length:* 16 minutes
 - ❖ *Presenter:* [Lona Mody, MD, MSc](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators, Nurse Managers, Environmental Services Manager
 - ❖ PPE103 reviews strategies to coach and train frontline health care professionals in the use of PPE and health care precautions.
- **PPE104: Auditing and Feedback of PPE Use**
 - ❖ *Module Length:* 11 minutes
 - ❖ *Presenter:* [Linda Greene, RN, MPS, CIC, FAPIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators, Nurse Managers, Environmental Services Manager
 - ❖ PPE104 discusses the critical role of auditing effective PPE use and key strategies for providing feedback to enhance infection prevention efforts.



Environmental Cleaning

- **EC101: Environmental Cleaning and Disinfection: Principles of Infection Transmission and the Role of the Environment**
 - ❖ *Module Length:* 19 minutes
 - ❖ *Presenter:* [David Calfee, MD, MS](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Environmental Services Staff, Nursing Staff, Patient and Family Advisors
 - ❖ EC101 describes the important role that the hospital environment can play in pathogen transmission and shares useful concepts to include when optimizing a hospital cleaning and disinfection program.
- **EC102: Cleaning and Disinfection Strategies for Non-Critical Surfaces and Equipment**
 - ❖ *Module Length:* 16 minutes
 - ❖ *Presenter:* [Dan Bennet, CHESP, M-CHEST, T-CHEST](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Environmental Services Management, Nursing Staff
 - ❖ EC102 provides an overview of strategies to consider when training staff about cleaning and disinfecting policies and procedures, and identifies tools to assist with monitoring and auditing these practices.
- **EC103: Using a Quality Improvement Approach to Improve Environmental Cleaning Practices**
 - ❖ *Module Length:* 19 minutes
 - ❖ *Presenter:* [Ruth Carrico, PhD, MSN, APRN, FNP-C, FSHEA, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Environmental Services Management, Nursing Management
 - ❖ EC103 explores using quality improvement strategies, like Plan-Do-Study-Act (PDSA), to monitor and guide infection prevention improvement initiatives.
- **EC104: Interprofessional Engagement for Improvement**
 - ❖ *Module Length:* 14 minutes
 - ❖ *Presenter:* [Ruth Carrico, PhD, APRN, FNP-C, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Environmental Services Management, Nursing Management
 - ❖ EC104 focuses on the importance of teamwork across departments and disciplines as a key intervention for improving infection prevention performance.

Antibiotic Stewardship

- **ABX101: Introduction to Antibiotic Stewardship**
 - ❖ *Module Length:* 18 minutes
 - ❖ *Presenter:* [Payal Patel, MD, MPH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Pharmacy, Nursing Staff, Medical Staff
 - ❖ ABX101 provides an overview of the core concepts required for a successful antibiotic stewardship program and describes how all staff can be involved in antibiotic stewardship.
- **ABX102: Antibiotic Stewardship: Urinary Tract Infection**
 - ❖ *Module Length:* 18 minutes
 - ❖ *Presenter:* [Barbara Trautner, MD, PhD](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Pharmacy, Nursing Staff, Medical Staff
 - ❖ ABX102 explores how inappropriately treating urinary tract infections (UTIs) can hinder antibiotic stewardship and promote the spread of antibiotic resistance. This module highlights how targeting antibiotic management of UTIs can improve a hospital's antibiotic stewardship program.



- **ABX103: Antibiotic Stewardship: Community-Acquired Pneumonia**
 - ❖ *Module Length:* 22 minutes
 - ❖ *Presenter:* [Valerie Vaughn, MD](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Pharmacy, Nursing Staff, Medical Staff
 - ❖ ABX103 discusses how inappropriately treating community-acquired pneumonia (CAP) can hinder antibiotic stewardship and promote the spread of antibiotic resistance. This module highlights how providers and institutions can target antibiotic management of CAP to improve antibiotic stewardship.

Building a Business Case for Infection Prevention

- **BC101: What is a Business Case?**
 - ❖ *Module Length:* 25 minutes
 - ❖ *Presenter:* [Sue Collier, MSN, RN, FABC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Management, Medical Management, Environmental Services Management
 - ❖ BC101 describes the benefits of using a business case to present and propose infection prevention initiatives and illustrates the elements that make up an effective business case.
- **BC102: Tools and Resources to Help Create a Business Case for Infection Prevention**
 - ❖ *Module Length:* 14 minutes
 - ❖ *Presenter:* [Shannon Davila, RN, MSN, CIC, CPHQ](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Management, Medical Management, Environmental Services Management
 - ❖ BC102 describes tools and resources that can be used to help create an effective business case for infection prevention.
- **BC103: Integrating the Business Case for Infection Prevention into Hospital Priorities**
 - ❖ *Module Length:* 21 minutes
 - ❖ *Presenter:* [Barbara Edson, RN, MBA, MHA](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Management, Medical Management, Environmental Services Management
 - ❖ BC103 shares how to integrate a business case for infection prevention into hospital and organizational priorities to ensure sustainability of the proposed infection prevention work.

Uber Adaptive Strategies for Infection Prevention

- **UA101: “Uber Adaptive” Strategies for Preventing Infection: An Introduction**
 - ❖ *Module Length:* 10 minutes
 - ❖ *Presenter:* [Sanjay Saint, MD, MPH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Management, Medical Management, Environmental Services Management
 - ❖ UA101 describes the overarching socio-adaptive issues to consider when implementing quality improvement work.
- **UA102: Engaging Clinicians and Senior Leaders in Infection Prevention**
 - ❖ *Module Length:* 12 minutes
 - ❖ *Presenter:* [Sanjay Saint, MD, MPH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Management, Medical Management, Environmental Services Management
 - ❖ UA102 discusses the importance of engaging senior leaders in quality improvement initiatives and shares strategies for how to get senior leaders and physicians invested.



- **UA103: Overcoming Common Barriers in Infection Prevention**
 - ❖ *Module Length:* 10 minutes
 - ❖ *Presenter:* [Sanjay Saint, MD, MPH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Management, Medical Management, Environmental Services Management
 - ❖ UA103 highlights approaches for overcoming common barriers that arise during new initiatives and quality improvement work.
- **UA104: Sustainability of Healthcare-Associated Infection (HAI) Prevention Efforts**
 - ❖ *Module Length:* 12 minutes
 - ❖ *Presenter:* [Milisa Manojlovich, PhD, RN, CCRN](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Management, Medical Management, Environmental Services Management
 - ❖ UA104 describes ways to maintain momentum with quality improvement work, sustaining new initiatives so that they become part of daily practice.

Patient and Family Engagement

- **PFE101: What is Patient and Family Engagement?**
 - ❖ *Module Length:* 16 minutes
 - ❖ *Presenter:* [Sue Collier, MSN, RN, FABC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, All Staff, Hospital Leadership, Patient and Family Advisors
 - ❖ PFE101 explains the elements of patient and family engagement and how patients and families can be active partners in developing, implementing and evaluating programs and services.
- **PFE102: Engaging Patients and Families in Infection Prevention**
 - ❖ *Module Length:* 17 minutes
 - ❖ *Presenter:* [Kyle Popovich, MD, MS](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, All Staff, Hospital Leadership, Patient and Family Advisors
 - ❖ PFE102 highlights key strategies that can be used to ensure patient and family engagement in hospitals' infection prevention efforts.

Healthcare-Associated Infection (HAI) Prevention Strategies

The third educational phase will cover HAI-specific education on *Clostridium difficile* infection (CDI), methicillin-resistant *Staphylococcus aureus* (MRSA) bacteremia, central line-associated blood stream infection (CLABSI) and catheter-associated urinary tract infection (CAUTI). Hospitals will choose which HAIs to focus on based on their HAI rates. The HAI content is also comprised of on-demand courses and will be organized into two tiers of infection prevention interventions. Tier one interventions are basic infection prevention practices that every hospital should have in place regardless of their infection rate. Tier two educational courses outline increasingly more complex interventions hospitals should implement if they continue to struggle to reduce specific HAIs despite implementing tier one interventions. Each course is broken into two to five shorter modules, to allow teams and hospitals to tailor their education based on gaps highlighted by their ICAR and/or PCA.



There are two methods for accessing STRIVE HAI on-demand courses on the [STRIVE website](#), direct access or through an eLearning account to track completion to be eligible to receive CNE contact hours.

Option 1. All modules are available without logging in. By clicking on “[I don’t want CNE \(Direct access\)](#),” you will be taken to a page on the website where all of the modules are housed. Any module can be viewed by clicking “View Now” under the desired content and the module will open.

Option 2. If you are interested in receiving CNE contact hours for completing the HAI on-demand modules, you can view the modules in the eLearning platform. By clicking on “[I want CNE \(Login required\)](#),” you will be taken to a page on the website where all of the on-demand modules are housed in the eLearning platform. For more information, review the [CNE Contact Hours and Setting up an eLearning Account](#) section.

CDI

Tier 1

- **CDI101: Overview of *Clostridium difficile* Infection**
 - ❖ *Module Length:* 11 minutes
 - ❖ *Presenter:* [Erik Dubberke, MD, MPSH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Staff, Medical Staff, Environmental Services Staff
 - ❖ CDI101 provides background information on the impact *C. difficile* has on patients, the pathogenesis of *C. difficile* infection and strategies to prevent *C. difficile* infection. This module sets the stage for the subsequent modules in this course.
- **CDI102: Antibiotic and Lab Testing Stewardship to Prevent *Clostridium difficile* Infections (CDI)**
 - ❖ *Module Length:* 20 minutes
 - ❖ *Presenter:* [Jeffrey Rohde, MD](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Pharmacy, Laboratory, Medical Staff, Nursing Staff
 - ❖ CDI102 offers an overview of aspects of antibiotic stewardship and lab testing stewardship and how they play a crucial role in preventing *C. difficile* infection. This module builds off of the information discussed in the foundational infection prevention strategies Antibiotic Stewardship course.
- **CDI103: *Clostridium difficile* Infection: Preventing Transmission**
 - ❖ *Module Length:* 15 minutes
 - ❖ *Presenter:* [Karen Jones, RN, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Medical Staff, Nursing Staff, Environmental Services Staff
 - ❖ CDI103 shares how *C. difficile* transmission occurs and how health care staff can work together to prevent transmission. Additionally, this module outlines common barriers and offers strategies to effectively overcome challenges. This module builds off of the information discussed in the foundational infection prevention strategies Personal Protective Equipment and Environmental Cleaning courses.
- **CDI104: Monitoring for Compliance and Improvement**
 - ❖ *Module Length:* 25 minutes
 - ❖ *Presenter:* [Linda Greene, RN, MPS, CIC, FAPIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Clinical Educators, Nursing Management, Medical Management
 - ❖ CDI104 discusses way hospitals can use both process and outcomes data to identify gaps in practice, monitor compliance to evidence-based practices, communicate with key stakeholders and turn their data into actionable information to drive improvement.



Tier 2

- **CDI201: Using the Guide to Patient Safety to Improve CDI Prevention**
 - ❖ *Module Length:* 11 minutes
 - ❖ *Presenter:* [Jeffrey Rohde, MD](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee
 - ❖ CDI201 discusses how to conduct a needs assessment using a CDI Guide to Patient Safety to evaluate possible barriers to implementation of CDI prevention strategies. This module is a pivot point between the tier 1, the basic CDI prevention strategies, and the tier 2, enhanced and intensive CDI prevention strategies.
- **CDI202: Enhanced Interventions to Prevent CDI**
 - ❖ *Module Length:* 21 minutes
 - ❖ *Presenter:* [Linda Greene, RN, MPS, CIC, FAPIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff, Environmental Services Staff
 - ❖ CDI202 outlines the tier 2, enhanced CDI prevention strategies and how to implement these more complex interventions. These strategies include initiating Contact Precautions when CDI results are pending and extending them until discharge, implementing environmental cleaning process tools and using an EPA sporicidal agent, and implementing hand hygiene with soap and water as the preferred method at room exit with enhanced staff training and monitoring.

MRSA Bacteremia

Tier 1

- **MRSA101: Overview of Methicillin-resistant *Staphylococcus aureus* Bacteremia**
 - ❖ *Module Length:* 16 minutes
 - ❖ *Presenter:* [Russel Olmsted, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Staff, Medical Staff, Environmental Services Staff
 - ❖ MRSA101 provides background information on the impact MRSA has on patients, the pathogenesis of MRSA and strategies to prevent MRSA bacteremia. This module sets the stage for the subsequent modules in this course.
- **MRSA102: Risk Assessment and Case Review to Prevent MRSA**
 - ❖ *Module Length:* 19 minutes
 - ❖ *Presenter:* [David Calfee, MD, MS](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership
 - ❖ MRSA102 discusses the importance of conducting a MRSA risk assessment to prioritize MRSA prevention strategies, what data to use in the MRSA risk assessment and how to use the risk assessment to drive MRSA prevention actions.
- **MRSA103: Identification and Prevention of MRSA Transmission**
 - ❖ *Module Length:* 11 minutes
 - ❖ *Presenter:* [Kyle Popovich, MD, MS](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Medical Staff, Nursing Staff, Environmental Services Staff
 - ❖ MRSA103 identifies strategies that can be used to reduce MRSA transmission in hospitals. This module also discusses the advantages of horizontal infection prevention strategies and the importance of adhering to recommendations and best practices. This module builds off of the information discussed in the foundational infection prevention strategies Hand Hygiene, Personal Protective Equipment, Environmental Cleaning and Patient and Family Engagement courses.



Tier 2

- **MRSA201: Using the Guide to Patient Safety to Improve MRSA Prevention**
 - ❖ *Module Length:* 12 minutes
 - ❖ *Presenter:* [Payal Patel, MD, MPH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee
 - ❖ MRSA201 discusses how to conduct a needs assessment using a MRSA Guide to Patient Safety to evaluate possible barriers to implementation of MRSA bacteremia prevention strategies. This module is a pivot point between the tier 1, the basic MRSA prevention strategies, and the tier 2, enhanced and intensive MRSA prevention strategies.
- **MRSA202: Enhanced Interventions to Prevent MRSA**
 - ❖ *Module Length:* 14 minutes
 - ❖ *Presenter:* [Kyle Popovich, MD, MS](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff, Environmental Services Staff
 - ❖ MRSA202 outlines the tier 2, enhanced MRSA prevention strategies and how to implement these more complex interventions. These strategies include implementing daily chlorhexidine bathing for at-risk populations, decolonizing patients colonized with MRSA, performing Active Surveillance Testing for high-risk patient populations and implementing gowning and gloving for all ICU patients.

CLABSI

Tier 1

- **CLABSI101: Central Line-Associated Blood Stream Infection (CLABSI): An Introduction**
 - ❖ *Module Length:* 17 minutes
 - ❖ *Presenter:* [Vineet Chopra, MD, MSc](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Staff, Medical Staff
 - ❖ CLABSI101 provides background information on the impact CLABSI has on patients, the pathogenesis of CLABSI and strategies to prevent CLABSI. This module sets the stage for the subsequent modules in this course.
- **CLABSI102: Central Venous Catheter Appropriateness**
 - ❖ *Module Length:* 12 minutes
 - ❖ *Presenter:* [Payal Patel, MD, MPH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Medical Staff, Nursing Staff
 - ❖ CLABSI102 outlines the importance of only placing central venous catheters when necessary and shares strategies to determine catheter appropriateness. Additionally, this module highlights tools and strategies to ensure appropriate catheter use and placement.
- **CLABSI103: Prevention of Central Line-Associated Bloodstream Infections: Aseptic Insertion and Site Selection**
 - ❖ *Module Length:* 13 minutes
 - ❖ *Presenter:* [Vineet Chopra, MD, MSc](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Medical Staff, Nursing Staff
 - ❖ CLABSI103 reviews the supplies necessary for aseptic insertion of central venous catheters and strategies to ensure supplies are assembled and readily available for staff. This module also highlights insertion checklists to guide decisions making to help prevent CLASBSI.



- **CLABSI104: Maintenance and Removal of Central Venous Catheters**
 - ❖ *Module Length:* 18 minutes
 - ❖ *Presenter:* [Karen Jones, RN, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Medical Staff, Nursing Staff
 - ❖ CLABSI104 discusses the interventions to include in a central venous catheter maintenance and removal bundles and highlights the importance of proper catheter care and removal as a means to prevent CLABSI.

Tier 2

- **CLABSI201: Using the Guide to Patient Safety to Improve CLABSI Prevention**
 - ❖ *Presenter:* [Vineet Chopra, MD, MSc](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee
 - ❖ CLABSI201 discusses how to conduct a needs assessment using a CLABSI Guide to Patient Safety to evaluate possible barriers to implementation of CLABSI prevention strategies. This module is a pivot point between the tier 1, the basic CLABSI prevention strategies, and the tier 2, enhanced and intensive CLABSI prevention strategies.
- **CLABSI202: Enhanced Interventions to Prevent CLABSI**
 - ❖ *Presenter:* [Karen Jones, RN, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff
 - ❖ CLABSI202 outlines the tier 2, enhanced CLABSI prevention strategies and how to implement these more complex interventions. These strategies include conducting multidisciplinary rounds to audit necessity of catheter use, feeding back CLABSI and catheter utilization metrics to frontline staff in “real-time,” observing and documenting competency and compliance of catheter insertion and maintenance, using additional approaches as indicated by risk assessment and completing a full root cause analysis for every CLABSI.
- **CLABSI203:**
 - ❖ *Presenter:* [Russ Olmsted, MPH, CIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Medical Staff
 - ❖ CLABSI203 summarizes advanced CLABSI prevention strategies such as antibiotic impregnated catheters and antibiotic locks. This module reviews the existing literature and highlights the need to reassess CLABSI prevention measures before turning to these expensive strategies.

CAUTI

Tier 1

- **CAUTI101: Overview of Catheter-Associated Urinary Tract Infection (CAUTI) Prevention**
 - ❖ *Module Length:* 15 minutes
 - ❖ *Presenter:* [Sanjay Saint, MD, MPH](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Hospital Leadership, Nursing Staff, Medical Staff
 - ❖ CAUTI101 provides background information on the impact CAUTI has on patients, the pathogenesis of CAUTI and strategies to prevent CAUTI. This module sets the stage for the subsequent modules in this course.
- **CAUTI102: Appropriate Use and Prompt Removal of Indwelling Urinary Catheters**
 - ❖ *Module Length:* 32 minutes
 - ❖ *Presenter:* [Jennifer Meddings, MD, MSc](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff
 - ❖ CAUTI102 outlines the importance of only placing indwelling urinary catheters when necessary and ensuring they are removed as soon as clinically possible. Additionally, this module highlights tools and strategies to ensure appropriate catheter use and removal.



- **CAUTI103: Alternatives to the Indwelling Urinary Catheter**
 - ❖ *Module Length:* 20 minutes
 - ❖ *Presenter:* [Linda Greene, RN, MPS, CIC, FAPIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff
 - ❖ CAUTI103 reviews alternatives to indwelling urinary catheters to consider using prior to catheter insertion. This module also shares tools to avoid unnecessary catheter use and improve clinical decision-making.
- **CAUTI104: Indwelling Urinary Catheter Insertion and Maintenance**
 - ❖ *Module Length:* 21 minutes
 - ❖ *Presenter:* [Milisa Manojlovich, PhD, RN, CCRN](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff
 - ❖ CAUTI104 discusses the interventions to include in indwelling urinary catheter insertion and maintenance bundles and highlights the importance of proper catheter insertion and care as a means to prevent CAUTI.
- **CAUTI105: A Culture of Stewardship: Antibiotic Stewardship Starts with the Urine Culture**
 - ❖ *Module Length:* 12 minutes
 - ❖ *Presenter:* [Barbara Trautner, MD, PhD](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff, Pharmacy, Laboratory Staff
 - ❖ CAUTI105 offers an overview of aspects of antibiotic stewardship and lab testing stewardship and how they play a crucial role in CAUTI. This module builds off of the information discussed in the foundational infection prevention strategies Antibiotic Stewardship course.

Tier 2

- **CAUTI201: Using the Guide to Patient Safety to Improve CAUTI Prevention**
 - ❖ *Presenter:* [Jennifer Meddings, MD, MSc](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee
 - ❖ CAUTI201 discusses how to conduct a needs assessment using a CAUTI Guide to Patient Safety to evaluate possible barriers to implementation of CAUTI prevention strategies. This module is a pivot point between the tier 1, the basic CAUTI prevention strategies, and the tier 2, enhanced and intensive CAUTI prevention strategies.
- **CAUTI202: Enhanced Interventions to Prevention CAUTI**
 - ❖ *Presenter:* [Linda Greene, RN, MPS, CIC, FAPIC](#)
 - ❖ *Recommended Audience:* Infection Prevention Team/Committee, Nursing Staff, Medical Staff
 - ❖ CAUTI202 outlines the tier 2, enhanced CAUTI prevention strategies and how to implement these more complex interventions. These strategies include conducting catheter rounds with targeted education to optimize appropriate use, feeding back infection and catheter utilization metrics to frontline staff in “real-time,” observing and documenting competency of catheter insertion and performing a full root cause analysis of every CAUTI.



Learning Action Forums (LAFs)

Learning Action Forums (LAFs) are monthly one-hour webinars that bring together hospitals, state partners, and national infection prevention experts for knowledge sharing. Hospitals will participate in three introductory LAFs before joining the other cohorts in the combined monthly LAF forum. These first three LAFs will cover essential strategies to implement for any infection prevention initiative. Hospitals will join the combined monthly LAF that will occur on the first Thursday of the month. These webinars are designed to be discussion-based and interactive, building on the didactic content from the on-demand courses. Come prepared with questions, challenges and infection prevention strategies to share with your peers. For LAF webinars, participants will receive invites and communication from their state hospital association or their lead organization. Archived LAF recordings and presentation slides are available for viewing under the [Learning Action Forum Section](#) of the [Education tab](#) of the [STRIVE website](#).

Continuing Nursing Education Contact Hours and Setting Up an eLearning Account

The National Project Team will be working with the Ohio Nurses Association (OBN-001-91), an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation, to offer CNE contact hours for the completion of on-demand courses, both the Foundational Infection Prevention Strategies and Tiered HAI Prevention Strategies courses.

If you are interested in receiving CNE for completing the STRIVE on-demand modules, you will need to set up an eLearning account. To set up and register for an eLearning account for the first time, [click here](#). You will be prompted to enter your email address, first name, last name, desired password, state, and hospital name. If you already have an eLearning account through another HRET sponsored project (AHRQ ICU, HIIN, etc.), there is an option at the top of the page that says, "If you have registered with us before, please [click here](#)." Click that link and enter your email/login and password you use for the other project(s).

To be eligible to receive CNE contact hours, participants must complete all the modules for a given course, receive 80 percent or higher on the knowledge assessment and complete the event evaluation. For example, to receive CNE contact hours for the Hand Hygiene course, participants would need to view HH101, HH102 and HH103 in their entirety and complete the corresponding Course Evaluation and Assessment for CNE Hours with a passing score of 80 percent or higher to be eligible for CNE contact hours. Certificates of completion for the awarded contact hours will be distributed when these three elements are completed. For additional information about the CNE process or requirements, please contact STRIVE@aha.org.

Questions? Contact STRIVE@aha.org.



Presenter Biographies:

Barbara Edson, RN, MBA, MHA

Barbara Edson, RN, MBA, MHA, is Vice President of Clinical Quality at Health Research and Educational Trust (HRET) an affiliate of the American Hospital Association (AHA). Ms. Edson serves in a leadership role for the Centers for Disease Control and Prevention (CDC) States Targeting Reduction in Infections via Engagement. Additionally, she serves in a leadership role for several of the Agency for Healthcare Research and Quality (AHRQ) funded projects; TeamSTEPS National Implementation, the AHRQ Safety Program for LTC: CAUTI the AHRQ's Safety Program for Ambulatory Surgery and the AHRQ Safety Program for ICUs: CLABSI & CAUTI.

Barbara Trautner, MD, PhD

Barbara W. Trautner, MD, PhD is an infectious diseases clinician-investigator at Baylor College of Medicine and the Michael E. DeBakey Veterans Affairs Medical Center, affiliated with the Center for Innovations in Quality, Effectiveness, and Safety (IQuEst). Dr. Trautner's primary research interest is the development of new strategies for the prevention of catheter-associated urinary tract infection (CAUTI).

Dan Bennet, CHESP, M-CHEST, T-CHEST

Dan Bennet, CHESP, M-CHEST, T-CHEST, is currently the Manager of Environmental Services at St. Joseph's Hospital-North, Lutz, Florida. Mr. Bennet has over 26 years of experience in management, has served as Regional Manager for Healthcare Services Group, Unit Director for a management company and Facilities Director for Lehigh Valley Hospital-Hazleton.

David Calfee, MD, MS

David P. Calfee, MD, MS, is an Associate Professor of Medicine (Infectious Diseases) and Health Policy & Research at the Weill Cornell Medical College in New York, NY, the Chief Hospital Epidemiologist at New York-Presbyterian Hospital/Weill Cornell Medical Center, and a Fellow of the Infectious Diseases Society of America (IDSA) and the Society for Healthcare Epidemiology of America (SHEA). Dr. Calfee was also the lead author of the MRSA section of the SHEA/IDSA "Compendium of Strategies to Prevent Healthcare-Associated Infections in Acute Care Hospitals."

Erik Dubberke, MD, MPSH

Erik Dubberke, MD, MPSH, is an Associate Professor of Medicine at Washington University School of Medicine in St. Louis, an Associate Hospital Epidemiologist at Barnes-Jewish Hospital, Medical Director of Infection Control at Missouri Baptist Medical Center, and is the Director of the Section of Transplant Infectious Diseases at Washington University. Dr. Dubberke assisted in writing the CDI component of the Society for Healthcare Epidemiology of America (SHEA) compendium to prevent healthcare-associated infections and is currently on the panel updating the SHEA/Infectious Diseases Society of America CDI clinical guidelines.

Heather Gilmartin, NP, PhD

Heather Gilmartin, NP, PhD, is an investigator and post-doctoral nurse fellow with the Denver-Seattle Center of Innovation, Veterans Health Administration and adjunct faculty at the University of Colorado, College of



Nursing. Ms. Gilmartin's research focuses on understanding and optimizing the culture of health care to enhance patient safety through the prevention of healthcare-associated infections, and the implementation of evidence-based interventions such as bundles and mindfulness. Her clinical expertise includes epidemiology, family practice, pediatrics, and public health nursing.

Jeff Rohde, MD

Jeff Rohde, MD, is currently an Associate Professor in the Division of General Internal Medicine at the University of Michigan, where he serves as Medical Director for the 7A general medicine/telemetry inpatient unit, General Medicine Quality Committee Chair and is an active hospitalist. Dr. Rohde's research interests include transfusion medicine, hospitalists, health-care associated diseases and their prevention, and quality improvement practices.

Jennifer Meddings, MD, MSc

Jennifer Meddings, MD, MSc, is a board certified Assistant Professor of Internal Medicine and Pediatrics at the University of Michigan Health System, and cares for hospitalized patients at the Ann Arbor VA Medical Center. Dr. Meddings has performed several systematic reviews involving interventions to reduce unnecessary catheter use, and led a project using the RAND/UCLA Appropriateness Method to formally rate the appropriateness of 3 types of urinary catheters.

Karen Jones, RN, MPH, CIC

Karen Jones, RN, MPH, CIC, is a certified infection preventionist and has worked on several quality improvement interventions to improve safety and reduce infection risk in the hospital setting. Ms. Jones continues to participate in local and national initiatives to improve patient safety including education, evaluation of process, and feedback on performance to clinical staff and leadership

Kyle Popovich, MD, MS

Kyle Popovich, MD, MS, is an infectious disease physician at Rush University Medical Center and Stroger Hospital of Cook County. Since being at RUMC, Dr. Popovich has conducted research on the impact of MRSA in underserved populations in addition to examining infection control strategies in acute care hospitals.

Laraine Washer, MD

Laraine Washer, MD, is a Clinical Associate Professor of Infectious Diseases and Hospital Epidemiologist at the University of Michigan Health System. Dr. Washer has co-authored multiple manuscripts on prevention of health care acquired infections, multidrug resistant organisms and antimicrobial stewardship.

Linda Greene, RN, MPS, CIC

Linda R. Greene, RN, MPS, CIC, is the current President of APIC (Association of Professionals in Infection Control) and Infection Prevention Manager for UR, Highland Hospital in Rochester, NY. In addition to holding various other leadership positions in APIC, Ms. Greene has authored and co-authored several peer review publications in nursing and infection prevention journals, textbook chapters and implementation guides.



Lona Mody, MD, MSc

Lona Mody, MD, MSc, is an Associate Professor of Internal Medicine/Geriatric and Palliative Care Medicine at University of Michigan, Research Scientist at the Institute of Gerontology and Associate Director of Clinical Programs, GRECC, VA Ann Arbor Healthcare System. Dr. Mody has developed a thriving consortium of nursing homes in Southeast Michigan interested in infection prevention research and quality improvement projects.

Milisa Manojlovich, PhD, RN, CCRN

Milisa Manojlovich, PhD, RN, CCRN, is an associate professor in the Department of Systems, Populations and Leadership in the University of Michigan, School of Nursing, and a staff nurse in the University of Michigan Health System Critical Care Medical Unit. Ms. Manojlovich's research focuses on understanding how the practice environment in acute care settings affects nurses' communication with physicians and how this relationship contributes to patient outcomes.

Payal Patel, MD, MPH

Payal Patel, MD, MPH, is the current Medical Director of Antimicrobial Stewardship at the VA Ann Arbor Healthcare system and a clinical lecturer in Infectious Diseases and Internal Medicine at the University of Michigan and the VA Ann Arbor Healthcare System. Dr. Patel's research focuses on healthcare-associated infections and antimicrobial stewardship.

Russell Olmsted, MPH, CIC

Russell N. Olmsted, MPH, CIC, is the Director of Infection Prevention & Control for Trinity Health's Unified Clinical Organization headquartered in Livonia, Michigan. Mr. Olmsted's involvement in infection control includes experience as Associate Editor of the American Journal of Infection Control, prior service as 2011 President of the Association for Professionals in Infection Control & Epidemiology, Inc. (APIC) and prior membership on CDC's Healthcare Infection Control Practices Advisory Committee from 2006-2010.

Ruth Carrico, PhD, MSN, APRN, FNP-C, FSHEA, CIC

Rush Carrico, PhD, MSN, APRN, FNP-C, FSHEA, CIC, is an Associate Professor and Family Nurse Practitioner with the University of Louisville School Medicine, Division of Infectious Diseases, and is the founding Associate Director of the School of Medicine Global Health Initiative. Ms. Carrico has served on the APIC (Association for Professionals in Infection Control) Board of Directors, and served as the editor for APIC's 2005, 2009 and the 2010 electronic version of the Text of Infection Control and Epidemiology.

Sanjay Saint, MD, MPH

Sanjay Saint, MD, MPH, is the George Dock Professor of Internal Medicine at the University of Michigan, the Director of the VA/University of Michigan Patient Safety Enhancement Program and the Chief of Medicine at the Ann Arbor VA Medical Center. Dr. Saint's research focuses on preventing healthcare-associated infection, implementation science, and medical decision-making. He is also the lead author of a book recently published by Oxford University Press entitled: "Preventing Hospital Infections: Real-World Problems, Realistic Solutions."



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Shannon Davila, RN, MSN, CIC CPHQ

Shannon Davila, RN, MSN, CIC, CPHQ, currently serves as a Clinical Content Development Lead supporting national health care quality improvement initiatives with Health Research and Educational Trust, a non-profit affiliate of the American Hospital Association. Ms. Davila has been a state lead for several patient safety programs including the New Jersey Sepsis Learning Action Collaborative and On the CUSP Stop CAUTI. Shannon is certified in infection control, health care quality and as a TeamSTEPPS Master Trainer.

Sue Collier, MSN, RN, FABC

Sue Collier, MSN, RN, FABC, serves as a Clinical Content Development Lead at HRET. In this role, Ms. Collier provides clinical content leadership for several national quality improvement projects, including the LTC CAUTI/HAI program, ICU and CDC programs, TeamSTEPPS and ASC. Through her variety of clinical and executive leadership positions in a multi-hospital health care system, including vice president for planning and vice president for patient- and family-center care, Ms. Collier is recognized as a national leader in patient and family engagement in health care.

Valerie Vaughn, MD

Valerie Vaughn, MD, is a clinical lecturer and a Hospitalist Fellow at the University of Michigan, currently studying for her Masters with the Robert Wood Johnson program. Dr. Vaughn's current research interests include optimizing the quality of care received by hospitalized patients through maximizing the appropriate use of existing interventions.

Vineet Chopra, MD, MSc

Vineet Chopra, MD, MSc, is an Assistant Professor of Medicine and Research Scientist at the University of Michigan School of Medicine and the Ann Arbor VA Medical Center. A career hospitalist, Dr. Chopra has received numerous awards recognizing his research, has published over 100 peer-reviewed papers, and is Associate Editor at the American Journal of Medicine and the Journal of Hospital Medicine.



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Recommended Audiences

The matrices below outline the recommended audiences for each of the curriculum’s on-demand modules. It is important to note that these are suggestions and every hospital team should determine which staff view each module based on their infection prevention gaps, as identified by their ICAR or PCA results, and what makes sense for their hospital and staff. This may mean starting your improvement initiative with a single unit before expanding education and interventions to the entire hospital.

Foundational Infection Prevention Strategies On-demand Modules

Course Module	IP ⁱ Team	Hosp ⁱⁱ Leaders	Clinical Educators	Nurse Mgrs ⁱⁱⁱ	Physician Mgrs	Evs ^{iv} Mgrs	Pharm ^v	Lab ^{vi}	RN Staff	Medical Staff	Evs Staff	All Staff	Patient/ Family Advisors
CBT101	X		X										
CBT102	X		X	X	X	X							
CBT103	X		X	X	X	X							
HH101	X		X	X	X	X	X		X	X	X	X	X
HH102	X		X	X	X	X							
HH103	X		X	X	X	X							
PPE101	X		X	X	X	X	X		X	X	X	X	X
PPE102	X		X	X	X	X	X		X	X	X	X	X
PPE103	X		X	X	X	X							
PPE104	X		X	X	X	X							



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Course Module	IP Team	Hosp Leaders	Clinical Educators	Nurse Mgrs	Physician Mgrs	Evs Mgrs	Pharm	Lab	RN Staff	Medical Staff	Evs Staff	All Staff	Patient/ Family Advisors
EC101	X		X	X	X	X	X		X	X	X	X	X
EC102	X			X		X			X				
EC103	X			X		X							
EC104	X			X		X							
ABX101	X	X	X	X	X		X	X	X	X			
ABX102	X		X	X	X		X	X	X	X			
ABX103	X		X	X	X		X	X	X	X			
BC101	X	X		X	X	X							
BC102	X	X		X	X	X							
BC103	X	X		X	X	X							
UA101	X	X	X	X	X	X							
UA102	X	X	X	X	X	X							
UA103	X	X	X	X	X	X							
UA104	X	X	X	X	X	X	X						
PFE101	X	X	X	X	X	X	X		X	X	X	X	X
PFE102	X	X	X	X	X	X	X		X	X	X	X	X



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HAI Prevention Strategies On-demand Modules

Course Module	IP Team	Hosp Leaders	Clinical Educators	Nurse Mgrs	Physician Mgrs	Evs Mgrs	Pharm	Lab	RN Staff	Medical Staff	Evs Staff	All Staff	Patient/Family Advisors
Tier 1													
CDI101	X	X	X	X	X	X	X		X	X	X	X	X
CDI102	X	X	X	X	X		X	X	X	X			
CDI103	X		X	X		X			X		X		
CDI104	X		X	X	X	X	X						
MRSA101	X	X	X	X	X	X	X		X	X	X	X	X
MRSA102	X	X											
MRSA103	X		X	X	X	X			X	X	X		
CLABSI101	X	X	X	X	X	X	X		X	X	X	X	X
CLABSI102	X		X		X					X			
CLABSI103	X		X		X					X			
CLABSI104	X		X	X					X				
CAUTI101	X	X	X	X	X	X	X		X	X	X	X	X
CAUTI102	X		X	X	X				X	X			
CAUTI103	X		X	X	X				X	X			



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Course Module	IP Team	Hosp Leaders	Clinical Educators	Nurse Mgrs	Physician Mgrs	Evs Mgrs	Pharm	Lab	RN Staff	Medical Staff	Evs Staff	All Staff	Patient/Family Advisors
CAUTI104	X		X	X	X				X	X			
CAUTI105	X		X	X	X		X	X	X	X			
Tier 2													
CDI201	X												
CDI202	X		X	X	X	X			X	X	X		
MRSA201	X												
MRSA202	X		X	X	X	X			X	X	X		
CLABSI201	X												
CLABSI202	X		X	X	X				X	X			
CLABSI203	X		X		X					X			
CAUTI201	X												
CAUTI202	X		X	X	X				X	X			

ⁱ IP –Infection Prevention

ⁱⁱ Hosp –Hospital

ⁱⁱⁱ Mgrs –Managers

^{iv} Evs –Environmental Services

^v Pharm –Pharmacy Staff

^{vi} Lab –Laboratory Staff