

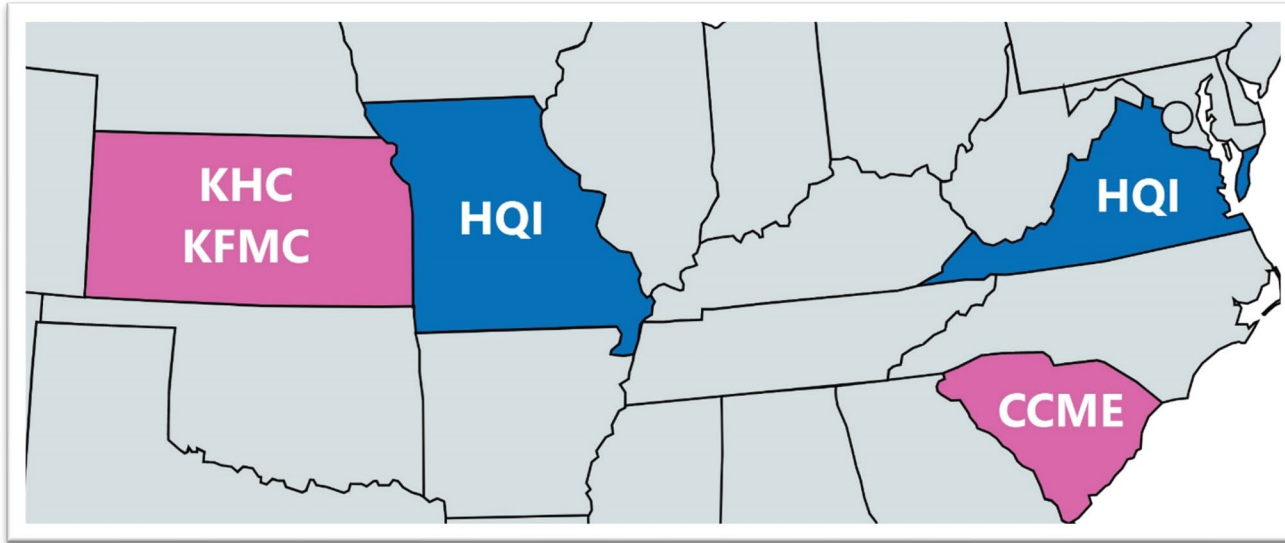


Health Quality Innovation Network

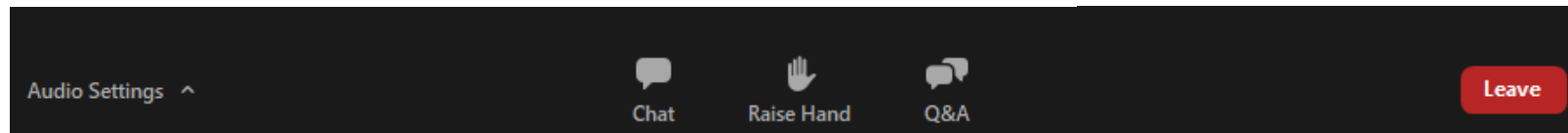
Sepsis Risk Assessment and Person-Centered Care Planning

June 23, 2022

Health Quality Innovation Network



Logistics – Zoom Webinar



To ask a question, click on the **Q&A** icon.

Raise your hand if you want to verbally ask a question.

Resources from today's session will be posted in **Chat**.

You may adjust your audio by clicking **Audio Settings**.

You have been automatically muted with video turned off.

Your Team



Allison Spangler,
BSN, RN, RAC-CT, QCP
Quality Improvement
Advisor



Brenda Groves
Quality Improvement
Advisor

Learning Objectives

In today's session, we will:

- Discuss how risk management can enhance your sepsis prevention program
- Review the importance of person-centered care planning for sepsis prevention



Sepsis
prevention is
only possible
by preventing
infections



Risk Management



Assessment: Evaluating and Identifying Risks



Sepsis Risk Factors

Risk factors that predispose elderly to an increased incidence of sepsis:

- Preexisting co-morbidities and drugs for chronic illnesses
- Pre-admission functional status
- Malnutrition
- Endocrine deficiency
- Aging
- Other risk factors
 - Increased risk for colonization by gram-negative organisms
 - Frequent or recurrent hospitalizations
 - Urinary catheterizations
 - Poor functional status
 - Medication use



Pre-Admission Practices

- Assess for any current infections and how they are being managed/treated
- Review the type of antibiotics being used, the route they are being administered, how long they have been used and the stop date
- Obtain any recent or pending laboratory (e.g., culture) or radiology results
 - If the results are not yet available, establish a process to obtain and review the results



Pre-Admission Practices, continued

- Notify the infection preventionist and enter applicable information in the facility infection surveillance and tracking system
- Ensure *appropriate* room placement of resident
 - Provide resident requiring transmission-based precautions a single room when possible
 - Use evidence-based guidelines for making decisions about resident placement
- Ensure appropriate equipment is available and set up prior to admission

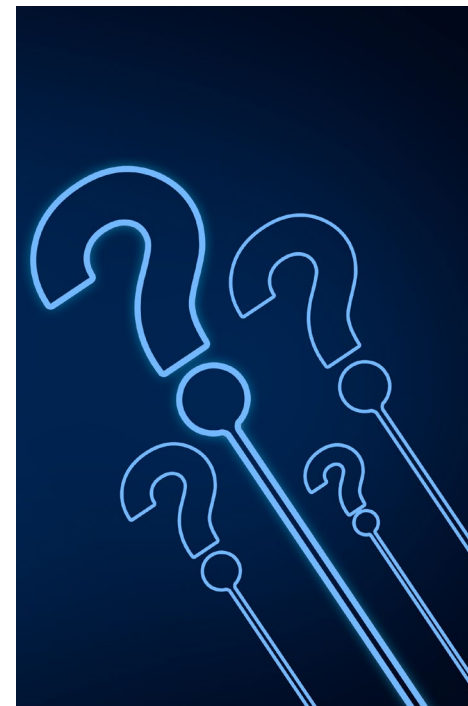
Polling Question

Does your IDT meet prior to an admission to review the transfer paperwork and ensure necessary resources and supplies are available to meet the resident's needs?

A. Yes

B. No

Want to share successful strategies?
Please type your responses in Q&A.



Admission Practices

- Complete a comprehensive risk assessment
- Review any antibiotic use for appropriateness
 - Review with physician/practitioner and/or pharmacist as needed
 - Establish a plan for an antibiotic time-out, reassessment of antibiotic, stop date of antibiotic
- Review cultures for a final result and ensure the culture result will be obtained if the final result is not available yet
- Assess the need for and appropriately provide vaccinations
 - Use standing orders for assessment and administration of these vaccines



Sepsis Risk Assessment Evaluation Tool

Use this tool:

- To evaluate your admission nursing assessment for critical elements
- As a stand-alone screening tool
- To identify new admissions for high-risk rounding

**SEPSIS RISK ASSESSMENT EVALUATION TOOL –
HEALTH QUALITY INNOVATION NETWORK**

HQIN
Health Quality Innovation Network

Use this tool to evaluate your admission nursing assessment to ensure you are capturing all the critical elements that indicate a potential risk for infection/sepsis. The best way to prevent sepsis is to prevent infection and intervene early if infection does exist. You can also use this as a stand-alone screening tool; if an element is present, check the category and circle sub-headings as they apply. It can be used to identify new admissions for high-risk rounding (see instructions on last page).

	Element contained in Admission Assessment?	Element reflected in Care Plan?	Is follow up required for this element?	Your notes
Sepsis during hospital stay preceding this admission				
History of sepsis				
Renal concerns <ul style="list-style-type: none"> • Chronic renal failure • History of stones • Recent UTI • Foley catheter during preceding hospital stay • History of BPH or urinary retention • Dialysis 				
Respiratory <ul style="list-style-type: none"> • Current or recent upper respiratory infection • History of pneumonia during preceding hospital stay • Current or recent episode of flu • Trach or intubated • Chronic: COPD, asthma 				
Gastrointestinal <ul style="list-style-type: none"> • CDI infection- current or during recent hospital stay • Recent GI surgery or procedure • Chronic Inflammatory bowel disease • Any history of diarrhea/vomiting or gastroenteritis within the past <u>48 hours</u> 				

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The Sepsis Risk Assessment Evaluation Tool is available for download on hqin.org

Identifying Residents' Risk Factors

This tool includes the sources of infection that frequently lead to sepsis:

- Gastrointestinal disease/impairments
- Renal disease/impairments
- Respiratory disease
- Skin and soft tissue

This tool also addresses:

- Diabetes
- Immunodeficiency
- Indwelling medical catheters
- Medication regimen
- Previous or current infection

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Mitigation: Education, Training and Care Plan Development



Training: Policy and Procedures

- Develop and implement an evidence-based infection prevention and control program
- Use 'care paths' or decision tools to guide nurses in monitoring signs and symptoms of infection
- Use standardized communication tools (e.g., SBAR) to communicate information to the physician

SBAR Communication for Possible Sepsis

SITUATION

My name is: _____
 I'm calling from (facility): _____
 Name of Physician/Prescriber contacted: _____
 I need to speak with you about resident (name): _____
 Resident Age: _____

BACKGROUND

The resident was admitted on _____/date with the diagnosis of: _____
 The resident also has the following co-morbid conditions/diagnoses: _____
 The resident is now showing these signs of possible infection: _____
 (Describe the signs and potential source of infection) _____
 This started on _____/date
 The resident is currently on, or recently completed PO or IV Antibiotics:
 * Antibiotic Name, Dose, Route: _____
 * Antibiotic Name, Dose, Route: _____
 The resident is allergic to: _____
 The resident's advance care directive is: _____

ASSESSMENT (describe key findings)

My assessment of the situation is that the resident may be experiencing a new/worsening infection. Here are my findings.

Vital Signs		
Temp: _____	Heart Rate: _____	BP: _____
Respiratory Rate: _____	SpO2 %/Pulse Ox: _____	
Current Weight: _____		

Other Factors		
Blood Sugar: _____	Foley (Y/N): _____	Last BM Date: _____
Current Labs/Recent Cultures: _____		

Mental status is (changed OR unchanged) from baseline: _____
 Possible sources of infection: _____
 (e.g., lung sounds, wound assessment, urine characteristics, other)

RECOMMENDATION

I am concerned that this resident may have sepsis.
 Would you like to order any labs, IV fluids or treatments? _____
 How often should vital signs be performed? _____
 What vital signs parameters would initiate an immediate notification to you? _____
 If no improvement, when would you want us to call you again? _____
 Additional Orders received: _____

Before Calling the Prescriber
 Evaluate the resident and complete this form.

- ✓ Check vital signs; be alert for early sepsis warning signs.
- ✓ Review the resident record; recent hospitalizations, lab values, medications and progress notes.
- ✓ Note any allergies.
- ✓ Be aware of the resident's advance care wishes.

Sepsis Early Warning Signs

Temperature ≥ 100.4 F or ≤ 96.8 F
 Heart rate ≥ 100 bpm
 Respiratory rate ≥ 20 bpm
 White blood cell (WBC) count $\geq 12,000$ μL^{-1} or $\leq 4,000$ μL^{-1}
 Altered mental status
 SpO2 (Pulse Ox) $\leq 90\%$
 Decreased urine output
 From recently drawn labs (within 24 hours)
 Creatinine > 2 mg/dl Bilirubin > 2 mg/dl
 Platelet count $\leq 100,000$ μL
 Lactate ≥ 2 mmol/L
 Coagulopathy (INR ≥ 1.5 or aPTT > 60 secs)

This form is a Quality Improvement Organization (QIO) tool. It is not intended to be used as a clinical decision-making tool. It is not a substitute for clinical judgment. It is not a substitute for clinical judgment. It is not a substitute for clinical judgment.

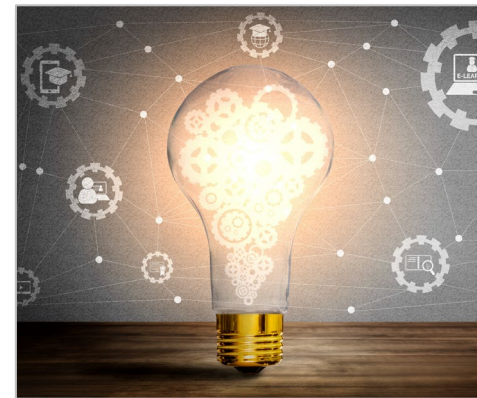
Quality Improvement Organizations
HCIN

Education and Training

Ongoing Facility-Wide Education and Training

Sepsis awareness, prevention and detection training

- New employee orientation
- Annual competency for all caregivers
- Resident and family brochure at team meetings
- Annual refresher (Seeing Sepsis 100/100/100) and/or Stop and Watch at staff meetings – include all staff throughout facility
- Posters on nursing units



Care Plan Components

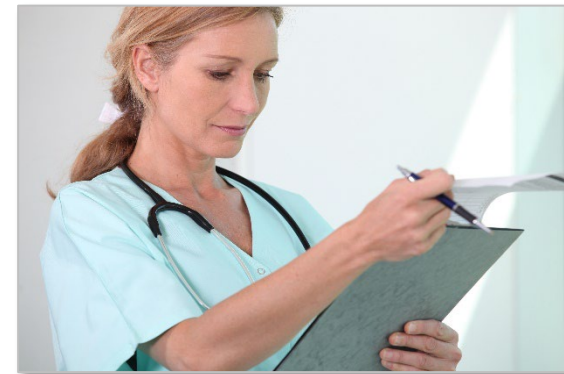
With any new/suspicion of infection:

- Ensure infection prevention and control nurse is notified and involved
- Notify resident and family members of infection, treatment plan and transmission-based precautions (if necessary)
- Ensure appropriate radiology/labs/culture obtained to confirm infection **and** ensure a final result is obtained
- Ensure appropriate initiation of antibiotics
- Ensure appropriate room and roommate
- Ensure appropriate signage, equipment and supplies are available
- Update the plan of care and nursing assistant assignment sheet with any interventions

Individual Considerations for Care

Things to consider:

- What is the resident's cognitive status?
 - What is their baseline?
 - Are they capable of reporting healthcare concerns or changes?
- Is the resident compliant with current treatment plans?
 - Do they understand their treatment plan?
- What is the resident's preferences for care?
 - What are their advanced directives?



Patient and Family Education

What is Sepsis?

Sepsis is a very serious illness. It occurs when the body's response to infection rapidly spreads from its original site. Sepsis can quickly impact vital organs and tissues causing permanent damage or even death.

Why should I be concerned?

- 270,000 Americans die from Sepsis each year
- Sepsis is the leading cause of hospital admissions from nursing homes
- 15-50% of the people who are admitted to acute care hospitals are diagnosed with Sepsis, die
- Quick recognition of infections and the early warning signs leads to earlier treatment and the prevention of Severe Sepsis

How do you get Sepsis?

Sepsis can happen to anyone and can occur from even a minor infection, pneumonia, or a wound (sore) and the infection is localized in the area where it first occurred. When the infection is localized, people usually recover normally and do not develop Sepsis.

In cases where Sepsis develops, the body's response to the infection does not stay localized in the area where it first occurred and to attack normal tissue and organs. When Sepsis begins to attack normal tissue and organs, it is called Severe Sepsis.

Groups of people most likely to get Sepsis:

- People over 65
- Babies under one year
- People who have suffered burns, trauma or have wounds
- People with catheters
- People with chronic illnesses such as kidney disease, cancer, liver conditions or AIDS
- People with weakened immune systems such as those receiving treatments which diminish the body's ability to fight infection

Can you prevent Sepsis?

Preventing infection is one of the best ways to stop Sepsis from occurring. Clean all scrapes and wounds and wash your hands before touching open areas or providing care to a loved one. Handwashing is key to preventing the spread of infection.

The best way to prevent Severe Sepsis is through early detection. This includes identifying infections early and obtaining prompt treatment. *Matching out for the signs of potential Sepsis is also very important.*

About HQIN

The Health Quality Innovation Network (HQIN) brings together organizations and individuals who are making health care better for millions of Americans through funding provided by the Centers for Medicare & Medicaid Services Quality Improvement Organization Program. Members include providers, community-based organizations, health care associations and families in Kansas, Missouri, South Carolina and Virginia.

To learn more about our initiatives, visit:
www.HQIN.org or call 877.731.4746



Resident and Family Guide To Understanding Sepsis



The Resident and Family Guide to Understanding Sepsis is available for download on hqin.org

Implementation and Response



Organizational Strategies

- At daily stand up/IDT meeting, review new infections, antibiotic use, precautions and interventions
- Add infections, antibiotic use, precautions and interventions to the 24-hour report and ensure this information is reviewed with all staff at shift change
- Enter applicable information in the facility's surveillance plan and tracking program



Environmental Strategies

- Make soap and water and alcohol-based hand sanitizers readily available throughout the facility to support hand hygiene expectations for staff, residents and families
- Ensure handling of linens to avoid contamination of air, surfaces and persons
- Ensure that reusable equipment is not used for the care of another resident until it has been appropriately cleaned and disinfected and that single-use items are properly discarded
- Use floor, counter and furniture surfaces that can be thoroughly cleaned



HQIN High Risk Rounding Tool

**SEPSIS RISK ASSESSMENT EVALUATION TOOL –
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**SEPSIS RISK ASSESSMENT EVALUATION TOOL –
HEALTH QUALITY INNOVATION NETWORK**

High-Risk Rounding Tool

Date _____

RESIDENT'S NAME	ROOM NUMBER	REASON	FOLLOW UP

High Risk Rounding Tool Courtesy of Genesis- 7/19/2017

Analysis: Sepsis and QAPI



Continuous Quality Improvement

- Conduct audits on practices of hand hygiene, use of gloves and other personal protective equipment (including donning and doffing), and environmental and equipment cleaning and disinfection
- Define other practices that will be audited (e.g., point of care testing, urinary catheter maintenance, wound care, central venous catheter maintenance)
- Provide audit results to staff
- Map out infections in the building, current and over time, to observe trends, containment or spread, and to assist in decision making for potential resident placement
- Use color coding or other indicators for easy visualization of the types and locations of resident infections

In Summary

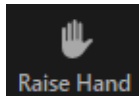
Recognition + Intervention = Survival

Know your residents

- Assess at admission to identify those at high risk
- Clearly document new admits' cognitive status
- Know your residents' wishes for treatment
- Utilize high-risk rounding tool to monitor changes
- Utilize a screening tool when residents trigger during high risk rounding



Questions? Comments?



Raise your hand to verbally ask a question



Type a question by clicking the **Q&A** icon

*Don't hesitate to ask a question after the webinar is over.
Email **LTC@hqi.solutions** or your HQIN Quality Improvement Advisor.*

Next Session: Reducing Sepsis Readmissions with QAPI

**Thursday, June 30
11:00 a.m. CST | 12:00 p.m. EST**



FOR MORE INFORMATION

Call 877.731.4746 or visit www.hqin.org

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From HQIN:

To all essential care giving teams
supporting residents and families,

Thank you for attending