

Nursing Home (NH) 7-Week Sepsis Sprint | Session 5 Sepsis Sprint: On Your Mark, Get Set, Go!

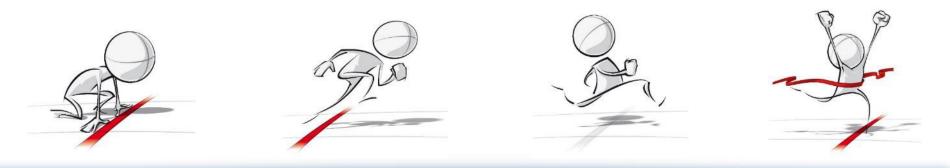
Sepsis Prevention and Screening in NHs

Health Services Advisory Group (HSAG)



Reminder

- Designed for each session to build upon the previous session(s) to provide a comprehensive strategy for advancing your sepsis prevention program.
- The educational component in each session was designed for you to use to educate your team and staff about sepsis.
- Each session is recorded and available on demand for you to use in your training sessions.





Goals

- Identify the key components of a sepsis prevention program.
- 2. Review the sepsis screening process.
- 3. Review the HSAG sepsis prevention bundle and associated resources.



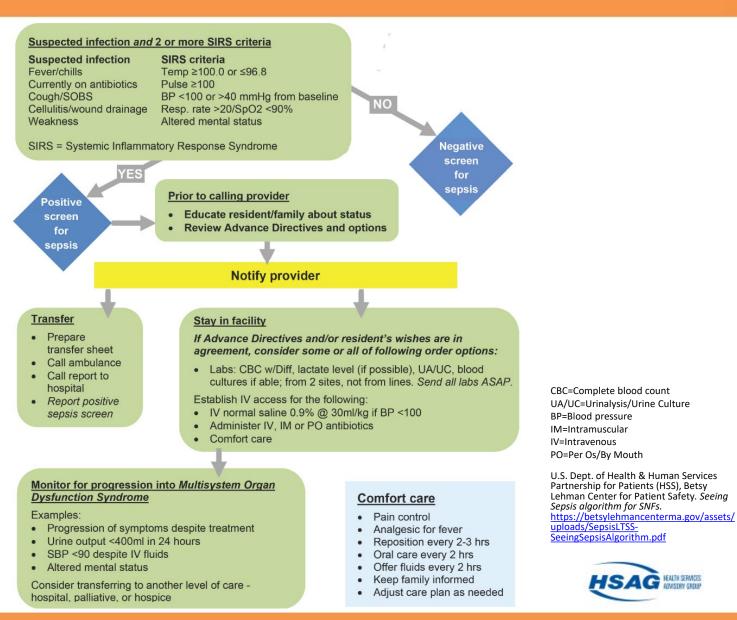




Sepsis Algorithm



Sepsis Algorithm for Adults



5



Screening for Sepsis



Infection Suspected If:

SEPSiS

- Fever/chills
- Currently on antibiotics
- Cough/shortness of breath
- Cellulitis/wound drainage
- Weakness

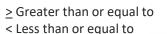




Check of Systemic Inflammatory Response Syndrome (SIRS):

- Temperature $\geq 100^{\circ}$ F or $\leq 96.8^{\circ}$ F
- Heart rate > 100 beats/minute
- Systolic blood pressure < 100 mmHG or > 40 mmHG from baseline
- Respiratory rate > 20 breaths/minute, oxygen saturation < 90%
- Altered mental status







Next Step

- Resident has suspected infection, and 2 or more SIRS criteria are checked
- Resident has screened positive for sepsis
- Nurse to notify physician
- Prior to calling provider
 - Educate resident/family about status
 - Review advance directives and options





Transfer to Hospital



- Follow facility's process
- Prepare transfer sheet
- Call ambulance
- Call report to hospital
- Report positive sepsis screen

Remember to always communicate with the resident



Stay in Facility

- If advance directives and/or resident's/family's wishes are in agreement, consider some or all of the following order options:
 - Labs: CBC w/Diff, lactate level, urinalysis, urine culture and sensitivity, blood cultures
 - Intravenous (IV) fluids if possible
 - Normal saline 0.9% @30ml/kg if BP < 100
 - Administer IV, IM, or PO antibiotics
 - Comfort care





Monitor for Progression of Sepsis

- Multisystem organ dysfunction syndrome
 - Progression of symptoms despite treatment
 - Urine output < 400ml in 24 hours</p>
 - SBP < 90 despite IV fluids</p>
 - Altered mental status
- Consider transferring to another level of care
 - Palliative
 - Hospice



Comfort Care

- Pain control
- Analgesic for fever
- Reposition every 2–3 hours
- Oral care every 2 hours
- Offer fluids every 2 hours
- Keep family informed
 - Supportive measures
- Adjust care plan as needed







Sepsis Prevention



Sepsis Prevention Program—Key Components

- Identify team members
- Provide education on Sepsis Prevention Bundle
- Implement Sepsis
 Prevention Bundle
 - Action Plan
 - Risk Assessment
 - Risk/Action Tool
 - SBAR Tool





Sepsis Prevention

- Proper hand hygiene
- Vaccinations
- Personal protective equipment
- Pneumonia/Urinary Tract Infection Bundle
- Standard precautions



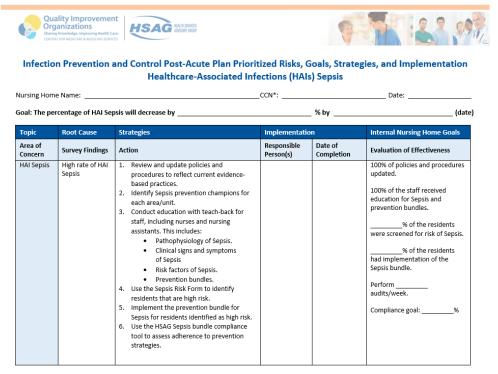




Sepsis Tools/Sepsis Prevention Bundle Tools



Sepsis Action Plan



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Why Is an Action Plan Important?

- Step-by-step plan to achieve a goal.
- Tool to design, assign, and track implementation of an initiative.

16. Action Planning

Quality Series: Action Planning

Action Planning Slides (PDF)

Action Planning Recording

Action Planning Tools to Download

- Action Plan Template (Word)
- Action Plan Template (PDF)



https://www.hsag.com/hqic/quality-series/

Risk Factor Assessment

•	Quality Improvement Organizations Series Forwards Hubbons State					
Sepsis Risk Factors						
hain i	is the body's extreme response to an infection. It happens when an infection you already have triggers a reaction throughout your body and can be a life-threatening medical emergency. If a resident has had an on and one or more of the risks below, the Sepsis Bundle Risk Factors and Action Tool may be implemented.					
	Risk					
	Compromised Immune System Unable to fight infections 					
	Residents With Chronic Conditions Chronic kidney disease Chronic liver disease Renal disease Pulmonary disease Diabetes					
	Cancer • Weaker immune system					
	Previous Use of Antibiotics or Corticosteroids Weaker immune system 					
	 > 65 Years of Age Residents who are 65 years old and older are at high risk due to presence of bacteria and weaker immune system 					
	Functional Limitations					
	Recurrent Hospitalizations					
	Opioid Addiction/Large Dose of Loperamide Results in constipation and impaction Can result in the intestines absorbing the bacteria from the impacted material The impaction can also lead to perforation within the digestive tract, causing bacteria to spread in the body 					
	Neglecting Signs of Infection					





Sepsis Bundle Risk Factors and Action Tool





Sepsis Bundle | Risk Factors and Action Tool

Sepsis is the body's extreme response to an infection. It happens when an infection you already have triggers a chain reaction throughout your body and can be a life-threatening medical emergency. If a resident has had an infection and one or more of these risk factors, an assessment of sepsis may be advised.

$\mathbf{\mathbf{\overline{S}}}$	Risk	Action		
	Compromised Immune System	Consistently perform hand hygiene. Wash with soap and water or use an alcohol-based sanitizer. Encourage vaccinations. Wear appropriate personal protective equipment (PPE).		
	Diabetes	Consistently perform hand hygiene. Encourage vaccinations. Conduct routine skin checks for ulcers. Maintain stable blood sugar levels. Adhere to a proper diet. Take all medications as ordered.		
	Chronic Kidney/Renal Disease (Excluding End Stage Renal Disease)	 Consistently perform hand hygiene. Encourage vaccinations. Utilize the urinary tract infection (UTI) bundle for prevention. 		
	Cancer	Consistently perform hand hygiene. Encourage vaccinations. Employ reverse isolation and wear appropriate PPE, as needed.		
	Chronic Liver Disease	Consistently perform hand hygiene. Encourage vaccinations.		
	Pulmonary Disease	Consistently perform hand hygiene. Encourage vaccinations. Utilize the pneumonia bundle for prevention.		
	Previous Use of Antibiotics or Corticosteroids	Consistently perform hand hygiene. Encourage vaccinations. Wear appropriate PPE. Utilize the UTI/pneumonia bundles, if applicable.		
	Increased Age	 Encourage responsibility for staff to protect residents. Consistently perform hand hygiene. Practice standard precautions—assume all blood, body fluids, and environmental surfaces could be contaminated with germs. 		
	Functional Limitations	Utilize the UTI/pneumonia bundles, as applicable, for mobility issues. Provide regular opportunities for resident to empty his or her bladder. Check incontinent pads frequently. Avoid extended periods of skin exposure to urine and/or feces. Ensure proper perineal care—cleaning females from front to back/cleaning males' foreskin, if present.		



https://www.hsag.com/nh/infection-prevention/#Sepsis



Sepsis Screening—SBAR

Quality Improvement Organizations Antisorder Antional static Car Control for Antional Static Car Control for Antional Static Car		Quality Improvement Organizations WHITI FOR MISCARE WIDE/OR STORED		
Skilled Nursing Facility Sepsis Screen	ing Tool ³	Skilled Nursing F	acility (SNF)	
- · · ·	DB:	Situation-Background-Assessment-Recommendation (SBAR) for Sepsis ⁴		
Nurse Completing Screening: Da	te/Time:	Communicate immediately with attending provider when a resident/patient screens positive for sepsis.		
Does resident/patient meet any of TWO of the following Systemic Inflammator Temperature: > 100.4° F or <96.8° F Heart rate: > 90 beats/minute		SITUATION: has screened positive for sepsis. He/she has met two or more of the following Systemic Inflammatory Response Syndrome (SIRS) criteria and has a confirmed or suspected source of infection.		
 Respiratory rate: > 20 breaths/minute White blood cell count (WBC): > 12,000 K/mcL OR < 4,000 K/mcL OR TWO SIRS criteria met? Yes (move to question 3) □ No (screening complete) 	> 10% bands	Two or more SIRS criteria met (check all that apply): Temperature: > 100.4° F or < 96.8° F Heart rate: > 90 beats/minute Respiratory rate: > 20 breaths/minute White blood cell count (WBC): > 12,000 K/mcL OR < 4,000 K/mcL OR > 10% bands		
 Poor motor skills/weakness/dizziness/falling Currently on antibiotics Cellulitis/wound drainage Cough/shortness of breath/decreased SpOz Recent su 	act infection (UTI) or recent urinary ne or dialysis catheter in drinking and/or appetite rgery, trauma, open wound	Infection is confirmed or suspected (check all that apply): Confusion or altered mental state Poor motor skills/weakness/dizziness/falling Currently on antibiotics Cellulitis/wound drainage Cough/shortness of breath/decreased SpO2 Change in urine (amount, color, odor, pain)	Urinary tract infection (UTI) or recent urinary catheter Central line or dialysis catheter Decrease in drinking and/or appetite Recent surgery, trauma, open wound Other:	
 If NO—Stop (screening complete) —> Continue to monitor/Stop and Watch If 2 and 3 are YES, then resident/patient has screened POSITIVE for possible SEPSIS. Continue to screen for severe sepsis below. Are ANY of the following organ dysfunction criteria present that are NOT a ch 	ronic condition?	BACKGROUND: Resident/patient was admitted to SNF with: Allergies: Pertinent lab values: Advance directives:		
Neurological: ANY change in mental status ANY change in mental status	 Pulmonary: RR > 20 OR need to increase O₂ to maintain SpO₂ >90% 	ASSESSMENT: Resident's/patient's mental status compared to baseline is		
Cardiac: Systolic blood pressure (SBP) < 90mmHg Mean arterial pressure (MAP) < 60 mmHg < > 40 mmHg decrease in SBP from baseline Capillary refill > 3 seconds	Gastrointestinal: Absent bowel sounds Diarrhea	Temperature: Pulse: Respir SpO2: Urine output: mL/hou Most recent weight: kg RECOMMENDATIONS: 1. Request STAT orders for lactate level and blood culture	ur or mL over the last 8 hours res (x2).	
Hematologic: Platelet count <100,000 INR > 1.5 or PTT > 60 seconds		 Request orders for broad spectrum antibiotic(s) and 30 rapid infusion. Consider transfer to an acute care facility based on res interventions. 		
 If NO, then complete Sepsis SBAR, and call MD to inform of positive sepsis scr guidelines. Continue to assess/monitor for severe sepsis. 	eening and implement sepsis	a. Complete SNF to Emergency Department (ED) Tran	nsfer Form.	
 If YES, the resident/patient has screened POSITIVE for SEVERE SEPSIS. Completo inform of positive severe sepsis screening and prepare for transfer to acute 		⁴ Delinger RP, Levy MM, Rhodes A, et al. Surviving Sepsis Campaign: International guidelines for management of severe sepsis and septic shock: 2012. Critical Care medicine. 2013;41(2): 580-637. Dinger M, Deutschman, CS Seymour CW, et al. The third international consensus definitions for sepsis and septic shock: 2016. JAMA. 2016;315(8): 801- 810.06i:10.1001/jama.2016.0287.		





SBAR (cont.)

SEPSIS SUSPECTED								
Skilled Nursing Facility (SNF) to Emergency Department (ED) Transfer Handoff Form ⁵								
NF/Facility:	Date:							
NF Contact Person:	Time First Criteria Met:							
atient Name:								
Advance Directive:								
Comorbidities:								
Heart Rate: > 90 beats/minute								
Heart Rate: > 90 beats/minute Respiratory Rate: > 20 breaths/minute White blood cell count (WBC): > 12,000 K/mcL O fection is confirmed or suspected: Confusion or altered mental state Poor motor skils/weakness/dizziness/falling Currently on antibiotics Cellulitis/wound drainage Cough/shortness of breath/decreased SpO2 Change in urine (amount, color, odor, pain)	R < 4,000 K/mcL OR > 10% bands Urinary tract infection (UTI) or recent urinary catheter Central line or dialysis catheter Decrease in drinking and/or appetite Recent surgery, trauma, open wound Other:							
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https://www.hsag.com/nh/infection-prevention/#Sepsis

Key Take-Aways

- ✓ Identifying the residents at risk will help you prioritize.
- Provide education to the staff on sepsis screening.
- Implementation of the sepsis prevention tools as soon as possible will be reflected by a decrease in sepsis cases.





An 82-year-old is admitted to your facility from the hospital. The admission nurse uses the risk assessment tool and discovers the resident is at high risk for sepsis. The nurse obtains the resident's vital signs and observes that the resident becomes extremely short of breath when speaking short sentences. The resident's temperature is 96° F and respirations are 32 breaths/minute. What is the order of the next step the nurse should take?

- A. Notify provider, complete SBAR, discuss resident's condition with resident/family
- B. Discuss resident's condition with resident/family, complete SBAR, notify provider
- C. Discuss resident's condition with resident/family, notify provider, complete SBAR

Scenario



Actionable Item?



What will you do?

Before the next session, what is one thing you can commit to doing?



Questions?





Join Us For The Next Session

Sepsis Sprint Kick-Off: On Your Mark, Get Set, Go!	September 26, 2023
Sepsis, the Silent Killer: On Your Mark!	October 3, 2023
Hand Hygiene—Spread the Word Not the Germs: Get Set!	October 10, 2023
Don't Wait Until It's Too Late to Vaccinate: Get Set!	October 17, 2023
Sepsis Prevention and Screening in NHs: Get Set!	October 24, 2023
Post Sepsis Syndrome and Readmissions: Get Set!	October 31, 2023
Wrap Up: Go!	November 7, 2023





Thank you!







Disclaimer

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