







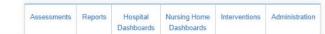
Sepsis for Skilled Nursing Facilities (SNFs)

Lindsay Holland, MHA, Director, Care Transitions
Trish Cruz, RN, MBA, BSN, PHN, Quality Advisor
Health Services Advisory Group (HSAG)
September 5, 2023



Quality Improvement Innovation Portal (QIIP): Assessments and Data Dashboard

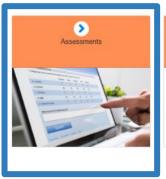


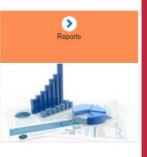


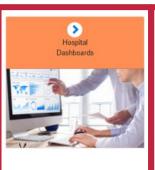


Quality Improvement Innovation Portal

For questions, please contact QIIPSupport@hsag.com.













QIIP Care Transitions Assessment

SNF Pain/Opioids

SNF Care Transitions

SNF ADE

SNF Quality Score

SNF Antibiotics

Care Transitions

Work with your department leadership team to complete the following assessment. Each item relates to care transition elements that should be in place for a program to improve care transitions within your facility. This Care Transitions Implementation Assessment is supported by published evidence and best practices including, but not limited to, The Joint Commission (TJC), National Quality Forum (NQF), Project RED (Re-Engineered Discharge from the Agency for Healthcare Research and Quality [AHRQ]), Project BOOST (Better Outcomes to Optimize Safe Transitions from the Society of Hospital Medicine), and the Care Transitions Model ([CTM®] also known as the Coleman Model). Select the level of implementation status on the right for each assessment item.

Download Assessment 🚣
To understand the rationale and references for each question, click
A. Care Continuum
B. Discharge Planning
C. Quality Improvement of Care Transitions
Open Response

Care Transitions

Facility Name:



Quality Improvement Organizations
Sharing Knowledge. Improving Health Care.
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Completed by:

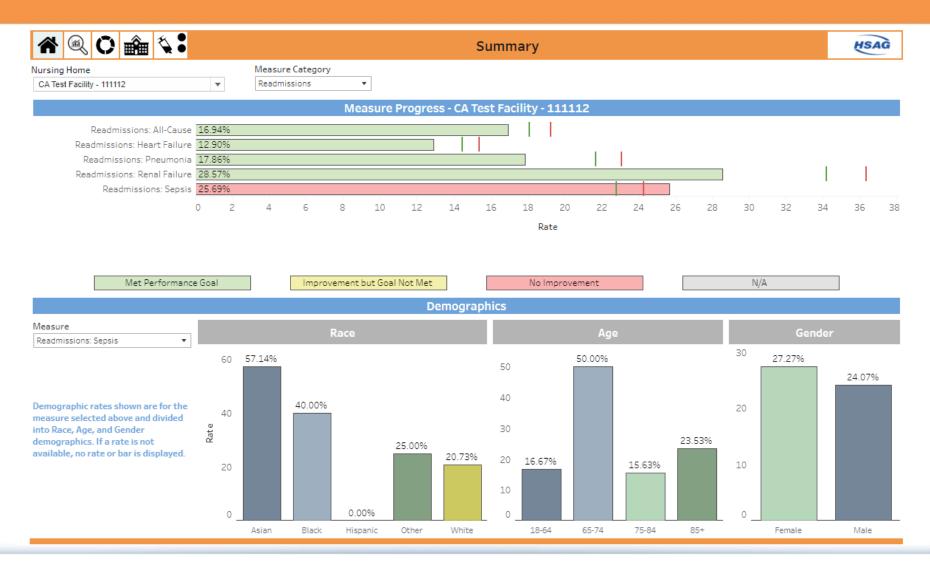
HS	4G	HEALTH SERVICES ADMISSION COOLIN
-		NOTIONAL GROUP

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CCN: _____ Assessment Date: ___

	Assessment Items	Not implemented/ no plan	Plan to implement/no start date set	Plan to implement/ start date set	In place less than 6 months	In place 6 months or more
A. Ca	re Continuum					
1.	Your facility uses a mechanism for bi-directional feedback with acute care partners to address transition communication gaps of key clinical information during resident transfers (e.g., discharge summary, outstanding tests/lab results, medication list discrepancies).\(^1\)					
2.	transition plans of: #					
	 Super-utilizers (residents with four admissions in one year—or—six emergency department visits within one year). 					
	 30-day acute care readmissions of residents on high-risk medications (anticoagulants, opioids, antidiabetics, and antipsychotics) 					
3.	Your facility monitors the timeliness of provider (medical director, SNFist, etc.) response for resident change-of-condition events.					
4.	Your facility uses a risk stratification tool to identify residents who are high risk for readmission to the hospital. IV					
B. Di	scharge Planning					
5.	Your facility provides focused case management for residents at high risk for readmissions to coordinate care addressing: * a. Ability to pay for medications.					
	b. Scheduling of physician follow-up visits.					
	c. Transportation to follow-up visits.					
are Tran	nsitions Skilled Nursing Facility Care Transitions Assessment					Page 1 of 5

QIIP Sepsis Readmissions Summary Data









Sepsis for SNFs Trish Cruz



Surviving Sepsis

Sepsis survivors





30-day readmission rate 18.0%–26.0%; 1/3 occur within the first 7 days



High rate of depression/ post-traumatic stress disorder(PTSD)/PSS 29.3% discharged to skilled nursing facility (SNF)



1-week mortality post-hospital discharge 11.0%–40.6%





Objectives

- Define sepsis.
- Recognize basic sepsis pathophysiology.
- Describe the sepsis bundle.
- Implement sepsis early recognition and treatment protocols.
- Recognize post-sepsis syndrome (PSS).





Sepsis Definition

- Sepsis is a life-threatening organ dysfunction caused by a dysregulated host response to infection.¹
- Sepsis is a medical emergency. It is not infection; it is the body's overwhelming and life-threatening response to infection. Sepsis can lead to tissue damage, organ failure, and death.

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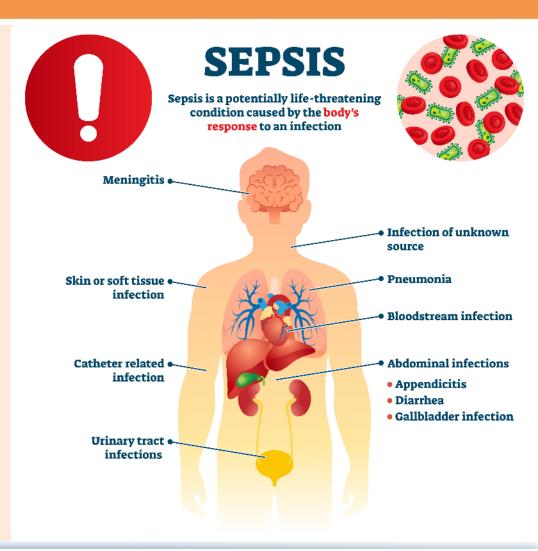
Simple Sepsis Pathophysiology





Simplified Sepsis Pathophysiology

Body invaded by pathogen Immune response Vasodilation, capillary leak, blood clotting Decreased blood flow to organs Metabolic acidosis Septic shock Multi-organ failure Death









Early Recognition and Rapid Treatment





Recognition: Confirmed or Suspected Infection Combined With Triggers (2 or More From Either Tool)

Systemic Inflammatory Response Syndrome (SIRS)

- Temperature
 - < 36 °C or ≥ 38 °C
 - \leq 96.8 °F or \geq 100.4 °F
- Heart rate ≥ 90 beats per minute
- Respiratory rate ≥ 20 or partial pressure of carbon dioxide (PaCO2) < 32 mmHg
- White blood cell count ≥ 12K, or ≤ 4K, or > 10% bands

Quick Sequential Organ Failure Assessment (qSOFA)

- Altered mentation (more than usual)
- Respiratory rate ≥ 22
- Systolic blood pressure (SBP) ≤ 100

Mylotte, JM. What is the Role of Nursing Homes in Surviving Sepsis Campaign? JAMDA (2019) fmda.org/Journal/SSC&NHs.pdf



Cleveland Clinic—Center for Continuing Education. Drotrecogin alfa-Recombinant Human Activated Protein C. www.clevelandclinicmeded.com/medicalpubs/pharmacy/janfeb2002/drotrecogin.htm

^{12 •} qSOFA calculator <u>qsofa.org</u>

Treatment: Sepsis Bundle Project (SEP)

SEP-1

- 1. Lactate
- 2. Blood cultures before antibiotics
- 3. Broad-spectrum antibiotic
- 4. 30mL/kg crystalloid fluid bolus for hypotension or lactate > 4
- 5. Vasopressors (if BP does not respond to fluids and to maintain mean arterial pressure [MAP] > 65)
- 6. Reassess tissue perfusion
- 7. Remeasure lactate if initial was elevated

SEP-3 (Hour-1)

- Lactate
 (Remeasure if initial > 2)
- 2. Blood cultures before antibiotics
- 3. Broad-spectrum antibiotic
- 30 mL/kg crystalloid for hypotension of lactate ≥ 4
- Vasopressors if hypotension during or after rapid fluids to maintain a MAP <u>></u> 65



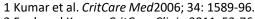
Centers for Medicare & Medicaid Services (CMS). SEP-1 Specifications Manual for National Hospital Inpatient Quality Measures. qualitynet.cms.gov/files/61b0df4330ffbc00229c36ba?filename=2a-b SEP-List v5.12.pdf

Society of Critical Care Medicine. Hour-1. Surviving Sepsis. www.sccm.org/SurvivingSepsisCampaign/Guidelines/Adult-Patients

Antibiotics

- Every hour delay of appropriate antibiotics = 7.6% lower survival.¹
 - In the first 12 hours, there is a 1% mortality rate increase per each
 5-minute delay.²
- Draw blood cultures first.
- Administer broad-spectrum antibiotics covering the most likely pathogen.
- Time is tissue
 - The same way time is muscle for STEMI³
 and time is brain for stroke.



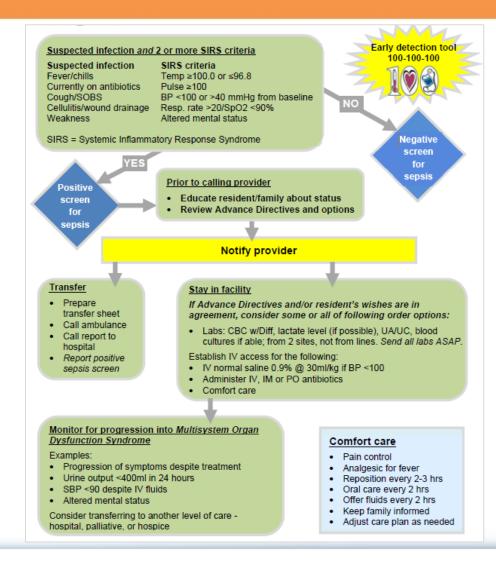


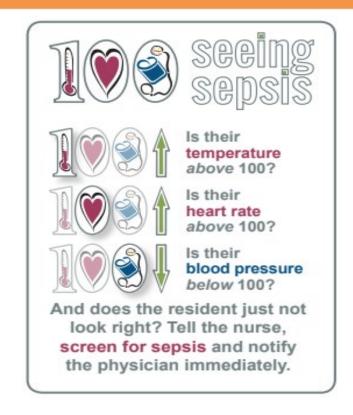
² Funk and Kumar, CritCare Clinics2011; 53-76.



³ STEMI = ST-segment elevation myocardial infarction
O'Brien, J. Sepsis: A Medical Emergency. Ohio Health. April 24, 2017.

Seeing Sepsis: SNF Sepsis Algorithm for Adults

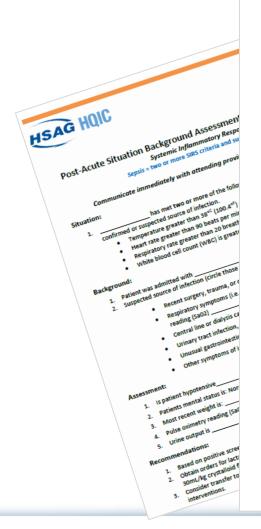




- U.S. Dept. of Health & Human Services Partnership for Patients (HSS), Betsy Lehman Center for Patient Safety. Seeing Sepsis algorithm for SNFs. betsylehmancenterma.gov/assets/uploads/SepsisLTSS-SeeingSepsisAlgorithm.pdf
- HSS. Minnesota Hospital Association. Seeing Sepsis tools.
 www.mnhospitals.org/Portals/0/Documents/ptsafety/SeeingSepsisLTC/1.%20Seeing%20Sepsis%20-%20LTC%20Poster.pdf



HSAG Post-Acute Sepsis SBAR



Post-Acute Situation Background Assessment Recommendation (SBAR) for Sepsis

Systemic Inflammatory Response Syndrome (SIRS)

Sepsis = two or more SIRS criteria and suspected or documented infection

Communicate immediately with attending provider when a patient screens positive for sepsis

Situation:

- ______ has met two or more of the following SIRS criteria (circle only those that apply) and has a
 confirmed or suspected source of infection.
 - Temperature greater than 38°C (100.4°F) or less than 36°C (96.8°F)
 - · Heart rate greater than 90 beats per minute
 - Respiratory rate greater than 20 breaths per minute
 - White blood cell count (WBC) is greater than 12,000; less than 4,000 or greater than 10 percent bands

Background:

- Patient was admitted with and now has two or more positive SIRS criteria (see above).
- 2. Suspected source of infection (circle those that apply):
 - Recent surgery, trauma, or open wound(s)
 - Respiratory symptoms (i.e., productive cough, abnormal chest x-ray, decrease in pulse oximetry reading (SaO2)
 - Central line or dialysis catheter
 - Urinary tract infection, recent use of a Foley catheter
 - Unusual gastrointestinal (GI) symptoms _____
 - Other symptoms of infection

Assessment:

- Is patient hypotensive (systolic blood pressure 100 mm Hg or less)
- 2. Patients mental status is: Normal/Abnormal (compared to baseline)
- 3. Most recent weight is: _____
- 4. Pulse oximetry reading (SaO2) is now . Previous reading
- 5. Urine output is _____ mL per hour or _____ over the last 8 hours

Recommendations:

- 1. Based on positive screening criteria notify attending provider.
- Obtain orders for lactate level and blood cultures if possible, but administer broad spectrum antibiotic(s) and 30mL/kg crystalloid fluid with rapid infusion even if blood work not done.
- Consider transfer to an acute care facility based on patient presentation, availability of resources, and response to interventions.







PSS





PSS Symptoms

Physical

- Insomnia, difficulty getting to sleep or staying asleep
- Disabling muscle and joint pain
- Fatigue, lethargy
- Shortness of breath (SOB)
- Swelling of limbs
- Repeat infections
- Poor appetite
- Hair loss
- Skin rash
- Reduced organ function (kidney, liver, heart)

Psychological

- Nightmares, vivid hallucinations, and panic attacks
- Flashbacks
- Poor concentration
- Decreased mental (cognitive) function
- Loss of self-esteem and self-belief
- Depression
- Mood swings
- Memory loss
- PTSD

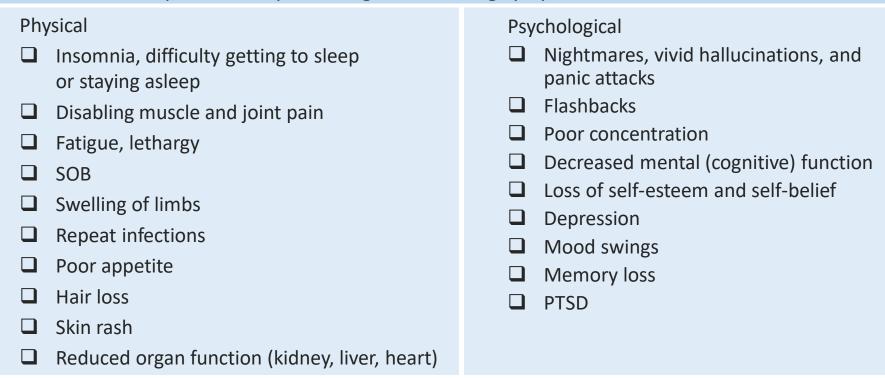


PSS SBAR

Situation: Resident/patient has symptoms of PSS.

Background: A large percentage of sepsis survivors and their families experience PSS symptoms.

Assessment: The patient is experiencing the following symptoms:



Recommendation: "I think this patient has PSS. Please consider a referral/consult for counseling or physical therapy."



PSS Interventions

- Understand the potential for PSS.
 - Communicate with the provider.
 - Sometimes letting your patient know he or she is not alone helps healing.
 - Provide an opportunity for your patient to talk.







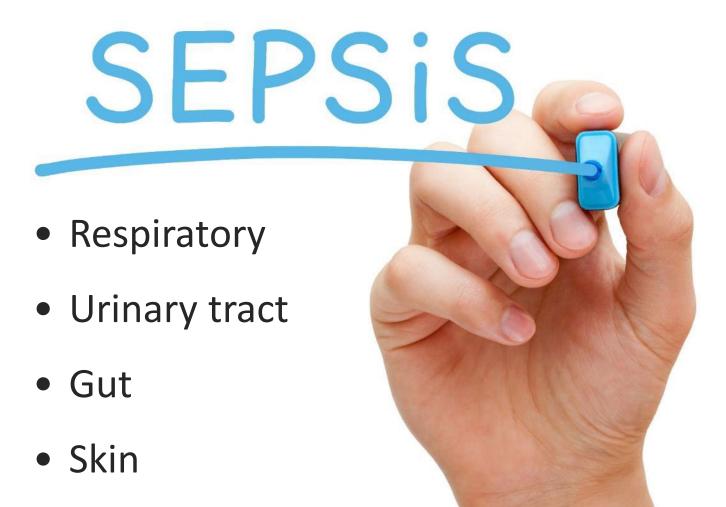
Sepsis Prevention

If you prevent infection, then you cannot get sepsis.





Common Sources





Sepsis Prevention If you prevent infection, then you cannot get sepsis

- Perform hand hygiene.
 - Ensure patients have the opportunity to wash hands before eating, after toileting, and after coughing or sneezing. (This may mean keeping hand sanitizer or wipes at the bedside.)
- Avoid Foleys and central lines as much as possible.
- Stay up-to-date with vaccines.
 - Flu, COVID-19,
 chicken pox, shingles,
 pneumonia,
 tetanus, etc.

- Provide proper wound care.
 - Wash hands before touching an open wound, use clean gloves if possible.
 - Follow doctors' orders regarding wound care.
 - Watch for signs and symptoms of infection: redness, warmth, increased pain, and/or discharge from wound.
 - Do not pop blisters.
- Encourage mobility.
 - Ensure adequate pain control.
 - Promote ambulation or at least out of bed multiple times per day.
- Maintain oral care.
- Use pressure injury prevention measures.



Sepsis Alliance Sepsis Prevention. <u>www.sepsis.org/sepsis-basics/prevention</u>

Pledge for Clean Hands

To Help Keep Each Other Safe

As a resident of this facility it is okay for me to speak up for clean hands.

Washing your hands for at least 20 seconds is the most effective way to prevent the spread of diseases like the flu, cold, and COVID-19.

When should I wash my hands?

Before:

- Touching your eyes, nose, or mouth
- Leaving the bathroom

Before and after:

- Eating
- Leaving your room

After:

- Blowing your nose, coughing, or sneezing
- Touching common surfaces and objects such as bed rails, remote controls, or the phone
- Touching garbage



When should I ask others to wash their hands?

Before:

- Entering and leaving the room
- · Leaving the bathroom

Before and after:

- Your team provides personal care such as treating a cut or wound
- Receiving medications
- Handling equipment
- · Close contact with others

After:

 They blow their nose, cough, or sneeze

Your healthcare team supports this effort and cares about your health. Speak up and remind us to keep our pledge for clean hands.





his material was prepared by Health Services Advisory Group, the Medicare Quality Innovation Network-Quality improvement Organization for risona and California, under contract with the Centers for Medicare & Medicais Services (EMS), an agency of the U.S. Department of Health and lumps Services. The contents prevented do not necessarily referct Ords Golick, Publication No. ON-125009-WC-2112009-0.

Centers for Disease Control and Prevention, When and How to Wash Your Hands. Accessed December 2, 20

Compromiso de lavado de manos

para mantenernos todos a salvo

Como paciente de este centro, puedo hablar a favor del lavado de manos.

Lavarse las manos durante por lo menos 20 segundos es la manera más eficaz de prevenir la propagación de enfermedades como la gripe, el resfrío y la COVID-19.

¿Cuándo debería lavarme las manos?

Antes de:

- Tocarse los ojos, la nariz o la boca
- Salir del baño

Antes y después de:

- Comer
- Salir de su habitación

Después de:

- Sonarse la nariz, toser o estornudar
- Tocar superficies y objetos comunes, como barandillas de camas, controles remotos o el teléfono
- Tocar basura



¿Cuándo debería pedirle a otras personas que se laven las manos?

Antes de:

- Entrar y salir habitación
- Salir del baño

Antes y desp

- Que su equipatención person durante el tratam una cortadura o u
- Recibir medicam
- Manipular equip
- Un contacto es otras personas

Después de:

 Que ellos se suenen la nariz, tosan o estornuden

Su equipo de atención médica apoya esta iniciativa y se preocupa por su salud. Diga lo que piensa y recuérdenos nuestro compromiso de lavado de manos.



to material five preparado por terath Services Advisory Group (HAM), por sus cigitas en inglés), la cual es una compañía dedicada a la mejoria de la calidad hospitalaria. Cito sus cigitas en inglés), la api cantrata com la Centrosa de Servicio de Medicano y Hedicano (Enth, a por ou cigitas en inglés), la cual es una apecia cito de Ospitatamento. Estado y Servicios framamos de Estados (1966), por ou cajas en inglés), y cualquem reference apolicia, en estad

wenter. Centros para el Cantrol y la Prevención de Enfermedades, Cuándo y cómo lavarse las manos. Se accedió por última vez el 2 de diciembre de 2020.









Putting It All Together





Recommendations—Part 1

- Always suspect sepsis.
- Hand hygiene, hand hygiene, hand hygiene.
- Prioritize early care over early transfer.
- 100s (†temperature/†heart rate/↓blood pressure)
 - Screen patients for sepsis if \geq 2 100s or patient just does not seem right.
- Use standardized order sets consistently.
- Administer tailored (by organ system), broad-spectrum antibiotics after blood cultures and within 1 hour of sepsis recognition.
- Have antibiotics readily available.



Recommendations—Part 2

- Use the sepsis bundles.
- Develop a sepsis checklist and use it consistently.
- Develop templates for physician and staff documentation.
- Employ visual management for fluid resuscitation.
 - All bags (full, empty, and in between) hung on IV pole.
 Everyone can see how far the patient is in his or her fluid resuscitation.
- Transfer report to include:
 - Sepsis time zero (the time the patient had 2 or more SIRS criteria with a known or suspected infection).
 - Sepsis care provided thus far with times.





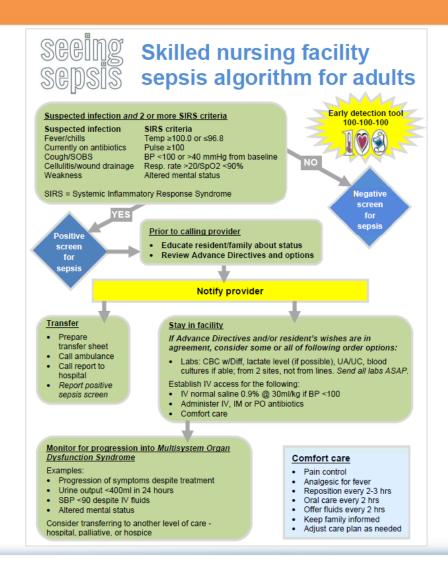


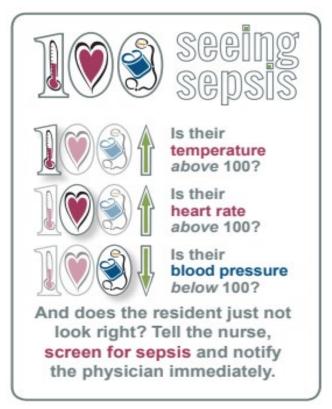
HSAG Tools and Resources





Seeing Sepsis SNF Algorithm



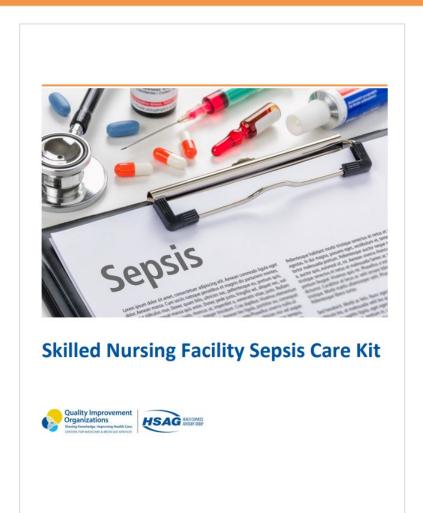


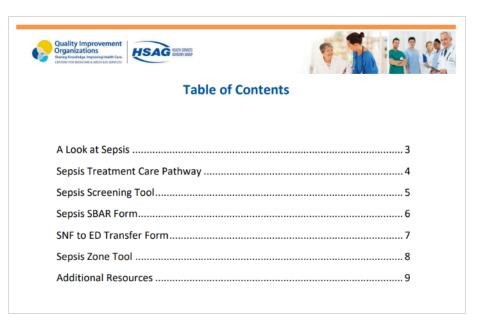
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SNF Sepsis Care Kit







Patient Education Zone Tools

Patient Education Tools

Health Services Advisory Group (HSAG) developed downloadable zone tools for patients, created to assist patients and caregivers in managing a variety of common health conditions. Zone tools help patients recognize and understand the symptoms of their disease and how to respond at various stages, with sections for: Green Zone—All Clear; Yellow Zone— Caution; Red Zone—Medical Alert.

These one-page self-management tools, each in English and in Spanish, can be used across all healthcare settings, in or out of the hospital, in nursing homes, and with home health agencies. The tools can be used while teaching patients and given to the patient or caregiver to take home.

Zone tool topics available at:

http://www.hsag.com/zone-tools

- Asthma
- Blood Thinner
- COPD
- COVID-19
- Diabetes

- Heart Disease
- Heart Failure
- Medications
- Pneumonia
- Sepsis

- Stroke
- Total Hip Replacement
- Total Knee Replacement
- Urinary System





Additional Tools and Resources



- 1. HSAG. Simple Sepsis Pathophysiology. www.hsag.com/globalassets/hqic/hqicsimplesepsispathophysiology.pdf
- 2. Sepsis Alliance. Post Sepsis Syndrome. www.sepsis.org/sepsis-basics/post-sepsis-syndrome
- 3. CDC. Life After Sepsis fact sheet. www.cdc.gov/sepsis/pdfs/life-after-sepsis-fact-sheet.pdf
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Our Next Care Coordination Quickinar

Preventing Pneumonia Readmissions
Tuesday, October 3, 2023 | 11 a.m. PT

bit.ly/cc-quickinars3





Care Coordination Quickinar Series



Register for Phase 3: Continuation of the Care Coordination Series August 2023–May 2024 (Sessions 21–28).

bit.ly/cc-quickinars3

21. SNF 2.0 INTERACT, Using Stop and Watch, and SBAR	
22. Sepsis Readmission Prevention	•
23. Preventing Pneumonia Readmissions	•
24. Preventing UTI Readmissions	•
25. Readmission Incentive and Penalty Programs, HRRP, WQIP, VBP	•
26. Readmissions Performance Improvement Project (PIP)	V
27. Readmissions and End-of-Life	_
28. Readmissions and Post-Discharge Follow Up	



Long-Term Care: 7-Week Sepsis Sprint

30-minute quickinars—*Lunch n' Learn* format Every Tuesday, 12 noon–12:30 p.m. (PT)

- 1. September 26—Sepsis Kick-Off: On Your Mark, Get Set, Go!
- 2. October 3—Sepsis the Silent Killer
- 3. October 10—Hand Hygiene: Spread the Word Not the Germs
- 4. October 17—Don't Wait Until It Is Too Late to Vaccinate
- 5. October 24—Sepsis Prevention and Screening in Long-Term Care
- 6. October 31—Post Sepsis Syndrome and Readmission
- 7. November 7—Wrap Up: Go!

Register today at: bit.ly/NHsepsisSprintLunchNLearn



Questions?









Thank you!

Lindsay Holland 818.813.2665 Iholland@hsag.com Trish Cruz pcruz@hsag.com















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