







Preventing Pneumonia Readmissions

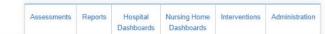
Josh Hazelton, Senior Quality Improvement Specialist, MPH, CPH Karen Verterano MSN, RN, Quality Improvement Specialist Health Services Advisory Group (HSAG)

October 3, 2023



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

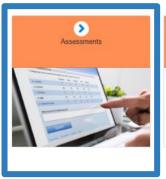




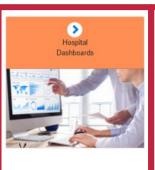


Quality Improvement Innovation Portal

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.
CENTERS FOR MEDICARE & MEDICAID SERVICES

Completed by:

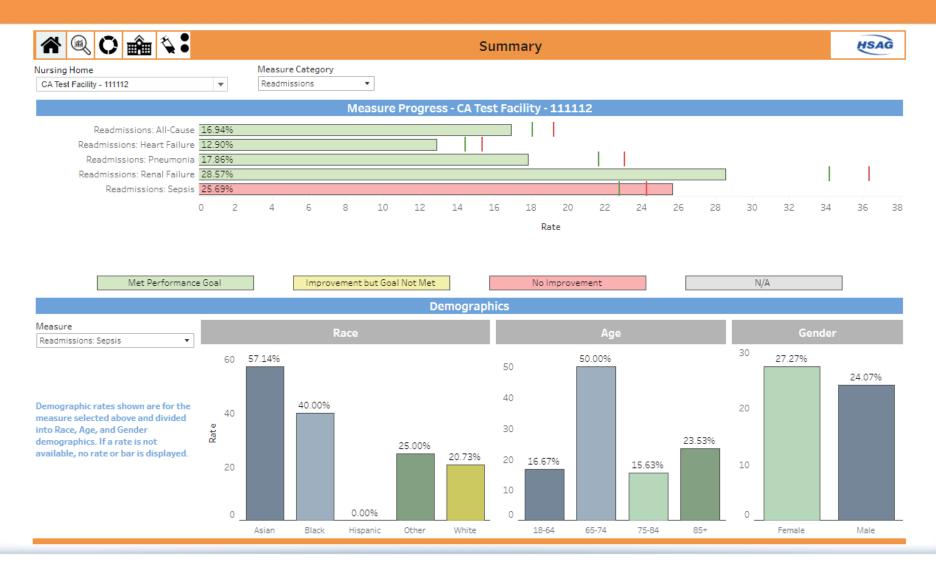
HS	4G	HEALTH SERVICES ADMISSION COOLIN
-		NOTIONAL GROUP

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 (TIC), 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. Once this form is complete, please go online and enter your answers.

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 Readmissions Summary Data





Your Speaker



Karen Verterano, MSN, RN



OBJECTIVE OF THE PROPERTY OF T

- Review evidence-based clinical practices shown to prevent pneumonia.
- Explore strategies to reduce pneumonia.
- Discuss adherence monitoring and feedback.



Pneumonia in Skilled Nursing Facilities (SNFs)

- One of the most common healthcareassociated infections in SNFs.
 - Occurs in an estimated 1–2 residents for every 1,000 days of nursing home residence.
- A significant cause of mortality and morbidity among residents in SNFs.
 - Mortality rate as high as 41%.







Risk Factors for Pneumonia





Risk Factors

SNF Residents at Risk

- Adults 65 years or older
- Smokers
- Brain disorders
 - Stroke
 - Head injury
 - Dementia
 - Parkinson's disease
- Weakened immune system
 - HIV/AIDS
 - Chemotherapy
 - Steroids (long-term)

Risk Factors—Co-Morbidities

- Lung diseases (asthma, COPD)
- Other conditions (diabetes, heart failure)
- Enteral feedings
- Malnourished
- Decreased activity or bedridden
- Recently hospitalized
- Poor oral hygiene



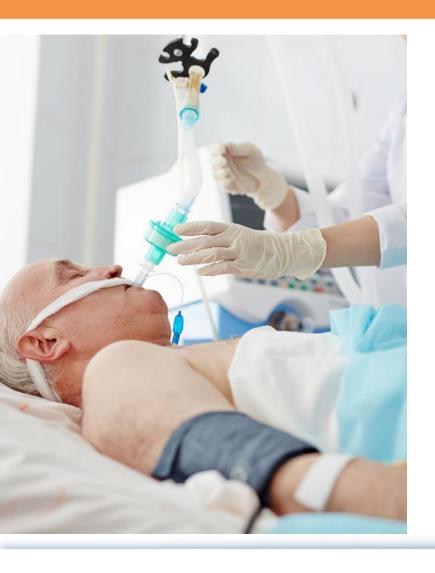
Assess for Pneumonia

- Fever
- Chills and sweats
- Fatigue
- Increased heart rate > 100
- Lower than normal body temperature
- Pain in the chest area
 - May occur with normal breathing

- Cough
 - May be productive or nonproductive with clear, purulent (yellow/yellowish green) or blood-tinged sputum
 - Shortness of breath
 - At rest or with minimal activity
 - Confusion
 - Loss of appetite



Pneumonia Complications



- Pleural effusion
- Respiratory failure
- Lung abscess
- Kidney, liver, and heart damage
- Pericarditis
 (heart lining inflammation)
- Atelectasis
 (collapse within the lungs)
- Sepsis



Pneumonia Progression to Sepsis

SFPSiS

 Community-acquired pneumonia is the most common cause of sepsis.

- Sepsis of this type is an infection in the respiratory tract that leads to a systemic response to infection.
- Early diagnosis and treatment of pneumonia is critical.



Early Signs of Sepsis

Monitor all residents with pneumonia for early signs of sepsis

- Fever or low body temperature
- Chills
- Rapid heart rate
- Difficulty breathing

- Skin rash
- Confusion or disorientation
- Light-headedness due to a sudden drop in blood pressure





Preventing Pneumonia

- Vaccinations
- Proper hand hygiene
- Regular oral care
- Mobility
- Deep breathing exercises
- Adequate diet/hydration
- Isolate infected residents
- Smoking cessation





Summary

- Pneumonia can lead to bloodstream infections.
- Adherence monitoring of evidence-based care practices will reduce pneumonia incidence.
- Feedback pneumonia incidence and adherence monitoring results to staff to improve outcomes.





HSAG Pneumonia Prevention Toolkit— Action Plan

Infection Prevention and Control Post-Acute Plan Prioritized Risks, Goals, Strategies, and Implementation Healthcare-Associated Infections (HAIs) | Pneumonia

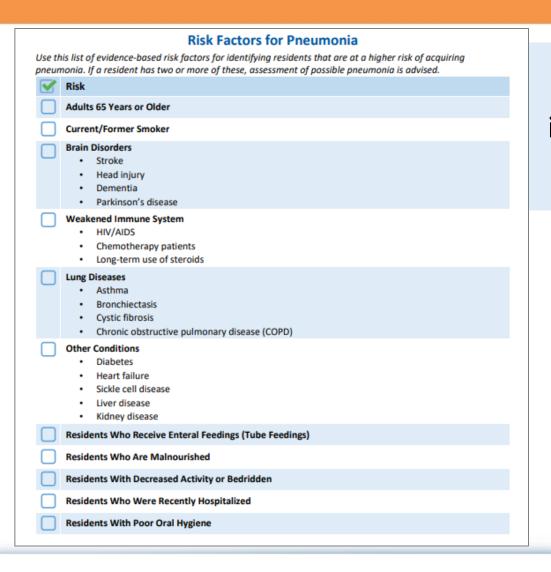
Nursing Home Name:	_CCN*:	_ Date:
Goal: The Percentage of Healthcare-Associated Pneumonia will Decrease by	% by	(date

Topic	Root Cause	Strategies	Implementation		Internal Nursing Home Goals
Area of Concern	Survey Findings	Action	Responsible Person(s)	Date of Completion	Evaluation of Effectiveness
HAI pneumonia	High rate of HAI pneumonia	1. Review and update policies and procedures to reflect current evidence-based practices. 2. Identify pneumonia prevention champions for each area/unit. 3. Conduct education with teach-back for staff, including nurses and nursing assistants, including: • Pathophysiology of pneumonia. • Clinical signs and symptoms of pneumonia. • Risk factors of pneumonia • Prevention bundles. 4. Use Pneumonia Risk Form to identify residents that are high risk. 5. Implement prevention bundle for pneumonia for residents identified as high risk. 6. Use HSAG Pneumonia Bundle Compliance Tool to assess adherence to prevention strategies.			100% of policies and procedures updated. 100% of the staff received education for pneumonia and prevention bundles.

^{*}CCN=Centers for Medicare & Medicaid Services (CMS) Certification Number



HSAG Pneumonia Prevention Toolkit—Screen

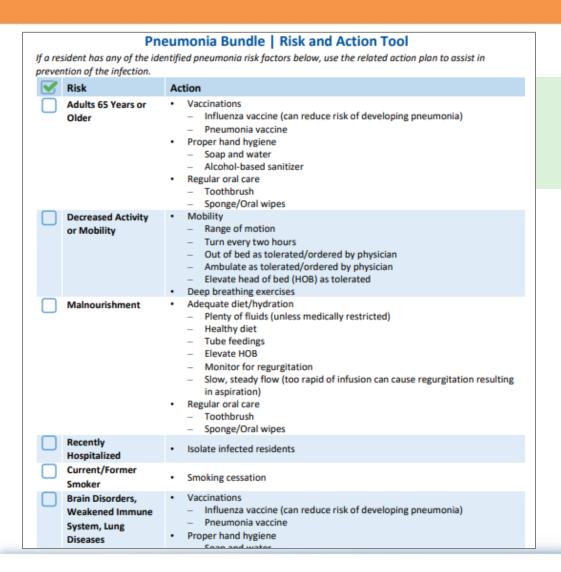


One-page screening tool to identify residents **most** at risk for developing pneumonia

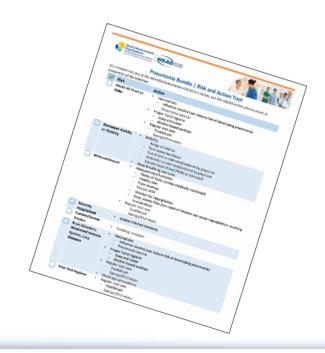




HSAG Pneumonia Prevention Toolkit—Prevent



Pneumonia Prevention Bundle Strategies





HSAG Pneumonia Prevention Toolkit— Bundle Poster

Pneumonia Prevention Bundle

Hand Hygiene

 Before and after any contact with the resident, body fluids, and secretions



Diet/Hydration

- Encourage fluids (unless restricted)
- Healthy diet
- Out of bed for meals or elevate head of bed

Oral Care

- Toothbrush
- Sponge swabs
- Morning, bedtime, and as needed



Mobility

- Out of bed daily
- For meals as tolerated
- Range of motion
- Ambulate (if able)

Visual cue poster to remind staff, residents, and families about the importance of pneumonia prevention strategies.



HSAG Pneumonia Prevention Toolkit—Identify

Pneumonia Signs and Symptoms Assessment Below is a list of signs and symptoms of pneumonia; a resident may have one or more than one of them. If any are identified, the next step is to report, as further testing is recommended. Any Change in The Resident's Condition Should Be Reported Immediately Sign/Symptom Fever With tachycardia (Increased heart rate; >100) Chills and sweats Fatigue Lower Than Normal Body Temperature (Adults 65 years or older and those with weakened immune systems) Cough May be productive or nonproductive with mucoid (clear), purulent (yellow/yellowish green), or blood-tinged sputum Pleuritic Chest Pain (Pain in Chest Area) May have pain with normal breathing Facial grimaces or winces Vocalization of pain (moans, cries, gasps, groans) Bracing of chest or surroundings (furniture or room equipment) May avoid taking a deep breath May have increased pain with coughing Facial grimaces or winces Vocalization of pain (moans, cries, gasps, groans) Bracing of chest or surroundings (furniture or room equipment) Shortness of Breath at Rest or With Minimal Exertion Increased respiratory rate Shallow respirations Crackles, rales, bronchial breath sounds are heard on auscultation Fatigue Myalgia (deep muscle pain) or arthralgia (joint pain) May be mild or severe May last minutes or be constant May occur with rest or movement Confusion · May occur due to the infection, fever, or shortness of breath Loss of Appetite

One-page assessment checklist to assist in identifying possible pneumonia

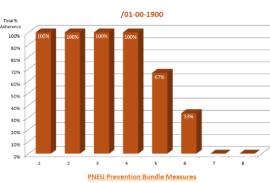




Pneumonia Audit Tool

Complete for Each Resident With PNEU Prevention Bundle Implemented:			
	Comments		
Direct Observation 1. Staff performed hand hygienewash in/wash	Room # n out.		
Resident out-of-bed for meals. (If able) Head-of-bed (HOB) elevated for those received feeding (TF).	ing tube		
Resident ambulating, physical therapy (PT), of motion (ROM) daily.	or range of		
5. Consuming > 75% of diet, including supplement	ents.		
6. Water pitcher full and within reach, if not on	fluid restriction		
Fluids encouraged during purposeful rounding on fluid restriction.	ng, if not		
8. A.M. (morning) oral care completed.			
9. HS (at bedtime) oral completed.			
10. Up-to-date on PNEU vaccine(s)			
Total Positive Per Patient			

Resident 1	Resident 2
Yes	Yes
Yes	No
No	No
No	No
Yes	No
Yes	No
7	5
87.5%	62.5%



1. Staff performed hand hygiene--wash in/wash out.

Resident 3

Yes

Yes

Yes

Yes

- 2. Resident out-of-bed for meals, if able.
- 3. HOB elevated for those receiving TF.
- 4. Resident ambulating, PT, or ROM daily.
- 5. Consuming > 75% of diet, including supplements.
- 6. Water pitcher full and within reach, if not on fluid restriction.
- 7. Fluids encouraged during purposeful rounding, if not on fluid restriction.
- 8. AM oral completed.



Total % Adherence Per Patient

Next HSAG Care Coordination Quickinar (No Sessions in November or December)

Preventing Urinary Tract Readmissions

Tuesday, January 9, 2024 | 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) at: 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. Readmissions and End of Life	•
26. Improving Communication and Teamwork Around Antibiotic Decision Making	•
27. Readmission Incentive and Penalty Programs, HRRP, WQIP, VBP	▼
28. Readmissions and Post-Discharge Follow Up	T



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!

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