

June 18, 2020



Minnesota Hospital Association



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Minnesota Sepsis Agenda

Sepsis HIIN Data 20% in mortality

Sepsis Committee Workplan

Sepsis Road Map 85

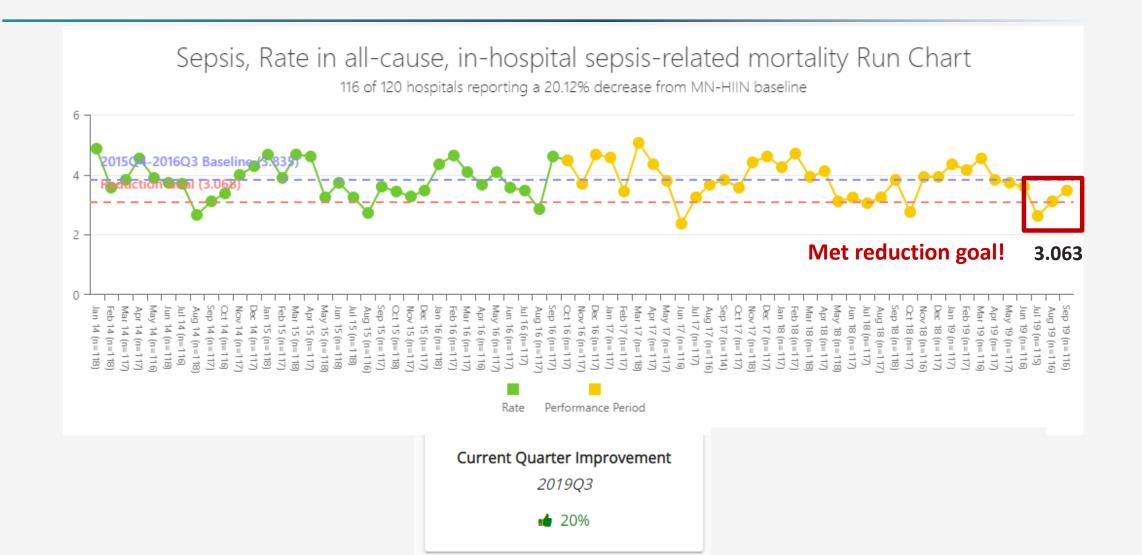
Sepsis Site Visits

15

HIIN Data Overview

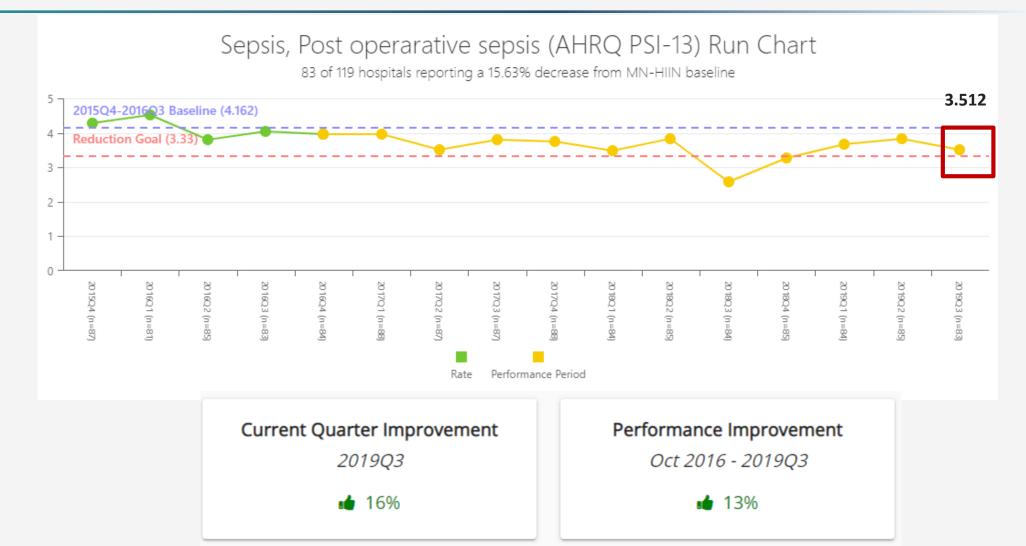
Minnesota Hospital Association (MHA)

Sepsis all-cause, in-hospital mortality, claims 116 of 120 hospitals reporting 20% reduction in Q3 2019



AHRQ PSI-13, Claims

83 of 119 hospitals reporting a 15.63% decrease from baseline , Q3 2019



Improving Sepsis Outcomes

Minnesota Hospital Association (MHA)

2020 Sepsis Committee Work Plan

Priority 1: Increase implementation and adherence to road map participation

Priority 2: Site visits, outreach, education





Quality & Patient Safety

Quality & Patient Safety

Communicating Outcomes

Emergency Overhead Pages

Health Care Disparities 🔳

Obstetrics & Newborn 🔝

Patient & Family Engagement
Patient Handling
Patient Safety Culture

eadmissions & Safe Transitions of Care 💷

Medication Safety 🗄

Pressure Ulcers

Sepsis and Septic Shock |

Surgery and Procedures

Adverse Health Events

Partnership for Patients

Collaboratives 🖽

Safety Alerts

Awards 🖽

Workplace Violence Prevention

SAFER Care |=

Health Care-Associated Infections 🔢

Antibiotic Stewardship

Delirium 🔳

Falls 🛨

(-)

MN HOSPITALS QUALITY & PATIENT SAFETY POLICY & ADVOCACY EDUCATION

QUALITY & PATIENT SAFETY

You are here: Patient safety in Minnesota hospitals >> Quality & Patient Safety In Shock

SEPSIS AND SEPTIC SHOCK: EARLY IDEN

SAVES LIVES

Sepsis and septic shock can be associated with a mortality rate of up to 50 per not utilize an early detection and treatment bundle. MHA has coordinated the of Sepsis toolkit to facilitate the adoption of sepsis early detection tools and the S three- and six-hour care bundles by hospitals of all sizes.

Download the Sepsis road map.

Seeing Sepsis toolkit

Seeing Sepsis Long Term Care resources

 Webinar recordings

 Videos

 Early Recognition and Initial Water and Sprice Stock in the ED

 Early recognition of sepsis & septic shock in the ED

 Improving care for patients with sepsis & septic shock

Sepsis webinar recordings, videos

Webinar recordings

- Recognition and Management of Severe Sepsis and Septic Shock, Jun
- Download the slide presentation

MHA's road maps provide hospitals and health systems with evidence-based recommendations and standards for the development of topic-specific prevention and quality improvement programs, and are intended to align process improvements with outcome data. Road maps reflect published literature and guidance from relevant professional organizations and regulatory agencies, as well as identified proven practices. MHA quality and patient safety committees provide expert guidance and oversight to the various road maps.

Each road map is tiered into fundamental and advanced strategies:

Minnesota Hospital Association Sepsis Road Map

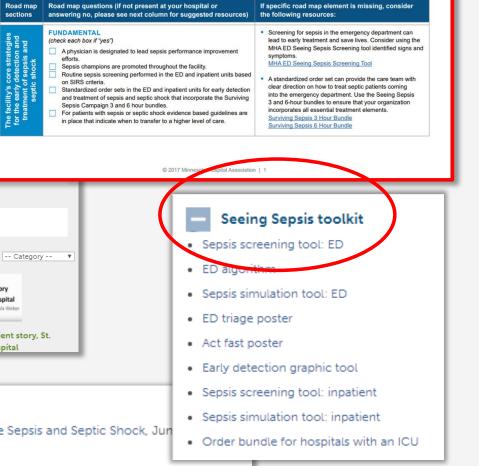
Fundamental strategies should be prioritized for implementation, and generally have a strong evidence base in published literature in addition to being supported by multiple
professional bodies and regulatory agencies.

Jpdated

Advanced strategies should be considered in addition to fundamental strategies when there is evidence the fundamental strategies are being implemented and adhered to consistently and there is evidence that rates are not decreasing and/or the pathogenesis (morbidity/mortality among patients) has changed.

Operational definitions are included to assist facility teams with road map auditing and identifying whether current work meets the intention behind each road map element.

Resources linked within the road map include journal articles, expert recommendations, electronic order sets and other pertinent tools which organizations need to assist in implementation of best practices.

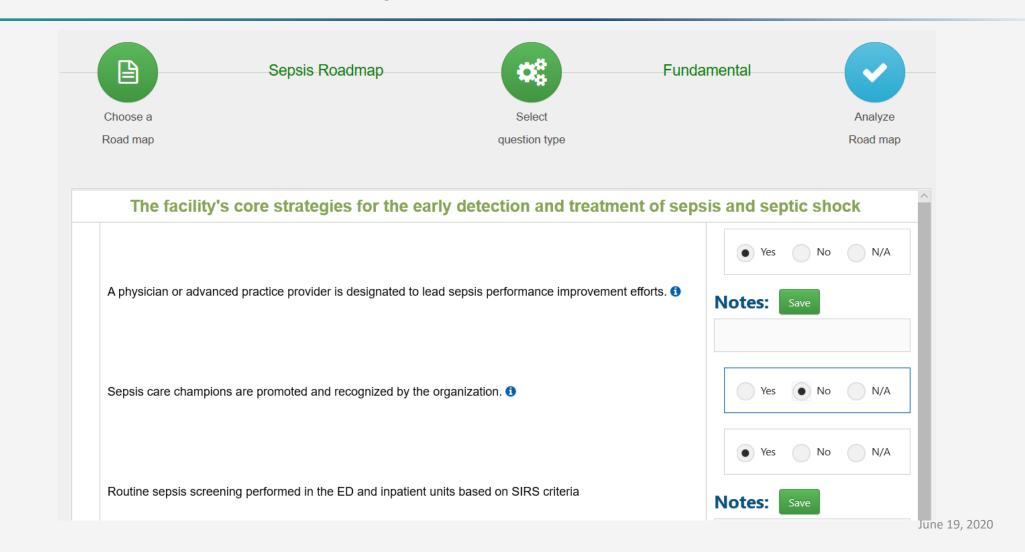


Sepsis Road Map

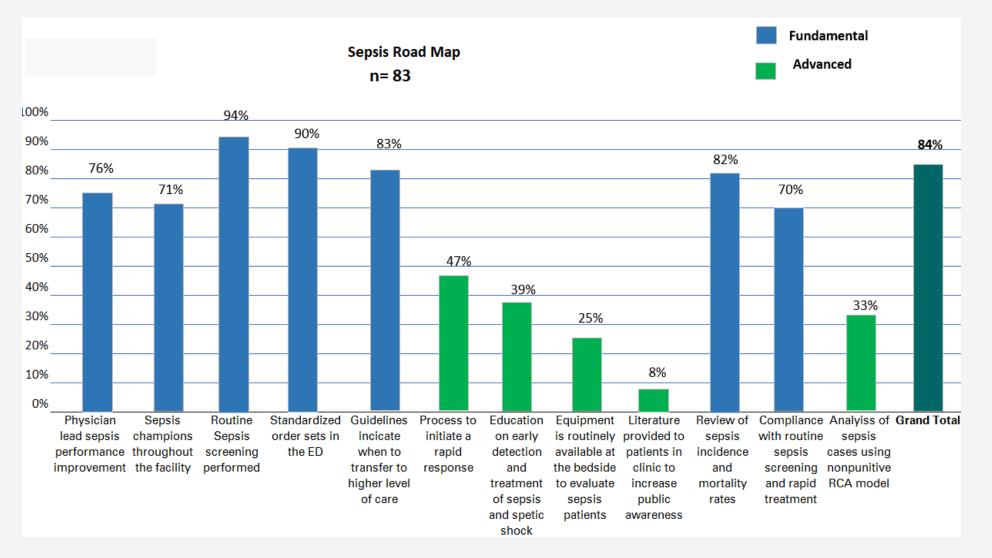
Fundamental or advanced strategies to help with prioritization

Road map sections	Road map questions (if not present at your hospital or answering no, please see next column for suggested resourc	If specific road map element is missing, consider the following resources:			
The facility's core strategies for the early detection and treatment of sepsis and septic shock	 FUNDAMENTAL (check each box if "yes") A physician or advanced practice provider is designated to leader sperformance improvement efforts. Identified person ensures that regular sepsis multidisciplinary temeetings are convened to review cases, sepsis data and quality measures, and promote education. Sepsis care champions are promoted and recognized by the organization. All staff that play a role in identification and treatment of patients sepsis such as nurses, lab, pharmacy, etc. Acknowledgment of sepsis champions may include early detecting recognition, success in bundle implementation. Routine sepsis screening performed in the ED and inpatient units by on SIRS criteria. 	 Screening for sepsis in the emergency department can lead to early treatment and save lives. Consider using the MHA ED Seeing Sepsis Screening tool identified signs and symptoms. MHA ED Seeing Sepsis Screening Tool A standardized order set can provide the care team with clear direction on how to treat septic patients coming into the emergency department. Use the Seeing Sepsis 3 and 6-hour bundles to ensure that your organization incorporates all essential treatment elements. 			
Organized section to address specific aspects of care	Audit-style O format for key d elements (what	perational efinitions Mapped resources with live links t yes means)			

Interactive data portal



Sepsis road map participation & adherence



Sepsis Site Visits

Tools & process

- Checklist
- Prep call questions
- Data analysis
- Slide deck

lospital	

Date of visit: ____

Sepsis Site Visit Process

- Identify site
 - o Outreach based on data
 - o Recruit during navigator visits and committee meetings
 - o <u>Document tracking</u> sites interested and completed

Schedule site visit

- Request time frame from site (day of week, time of day, month that work best)
- Request times available for Dr. Weinert from <u>Tracy Brown</u>
- o Determine site visit date, time, location typical visits 2 hours in length

$\hfill\square$ Schedule and complete prep call for site visit

- Specialist to lead prep call and invite key site visit planners from site (<u>1 hour</u> call)
- Send <u>agenda template</u> in advance, after completing highlighted fields
- o Gather data in advance
 - Statewide and site-specific data
 - Sepsis incidence, sepsis mortality, septic shock incidence, septic shock mortality
 - <u>Spreadsheet</u> with recent data and example charts
 - SEP-1 data

Sepsis site visits

Date	Site	Follow-up
February 21, 2018	Lakeview Hospital	Grand Rounds- August 2018
March 15, 2018	Winona Health Services	
April 18, 2018	United Hospital	
July 12, 2018	Olmsted Medical Center	Grand Rounds- April 2019
September 20, 2018	RC Hospitals & Clinics	
October 16, 2018	Ridgeview Medical Center	
February 14, 2019	Essentia St. Mary's Medical Center	
March 15, 2019	Stevens Community Medical Center	
August 26, 2019	Lake Region HC	
December 10, 2019	St. Joseph's- Fairview	
January 15, 2020	North Memorial Hospital	
January 28, 2020	Hennepin Health	
April 2 ,2020	Lakewood Health System	

Fundamental

Advanced

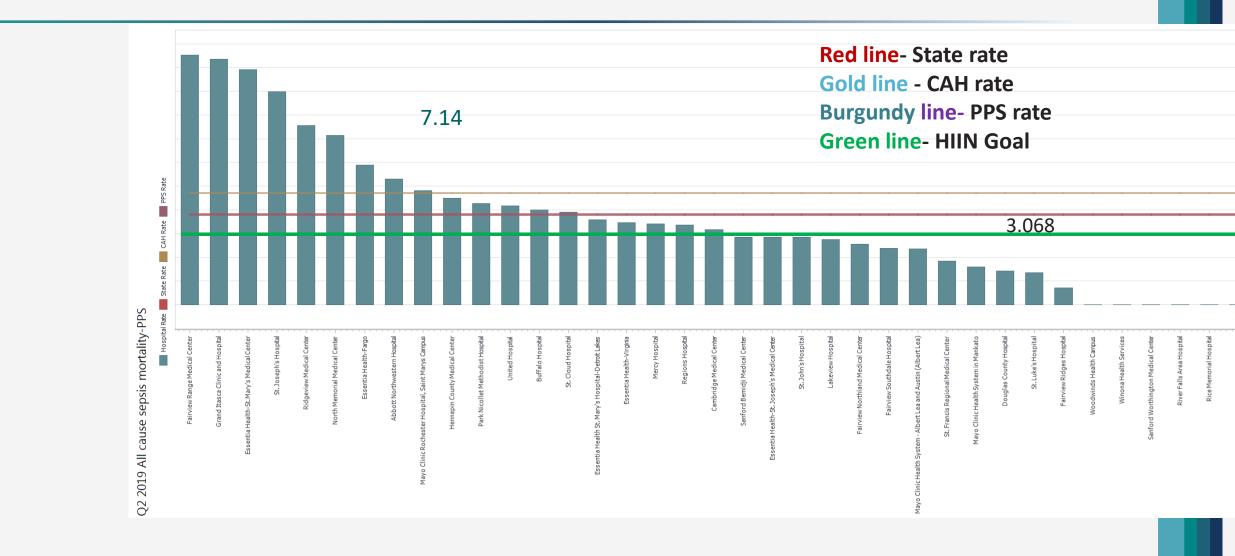
86%

60%

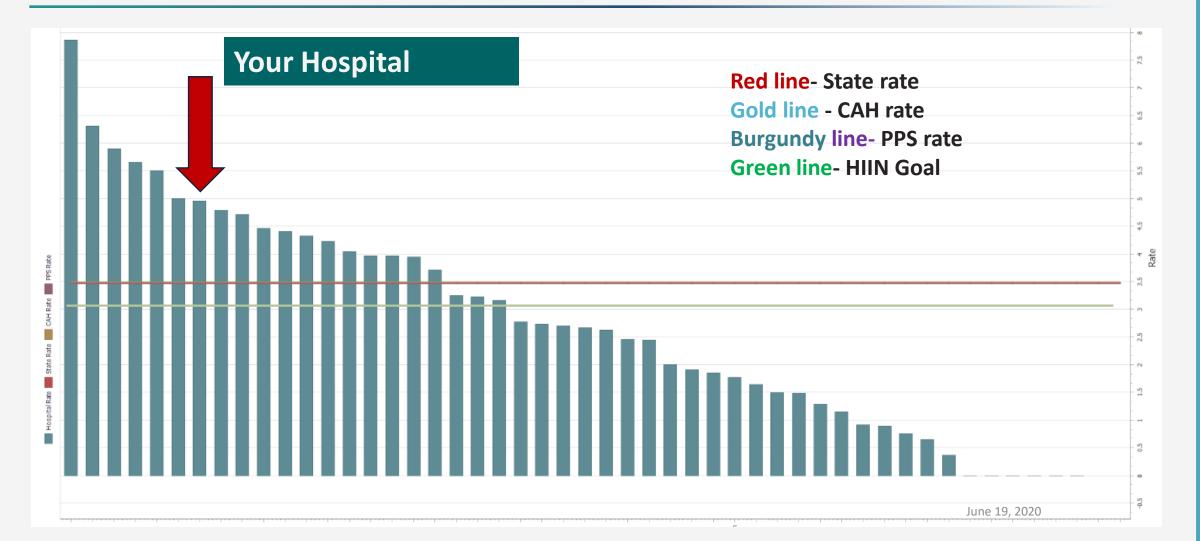
Hospital's Road Map adherence

		Yes	No	Blank
1	Physician designated to Lead	Х		
2	Sepsis champions promoted	Х		
3	Routine sepsis screen – ED	Х		
4	Standard order set – ED & inpatient	Х		
5	Transfer of care - guidelines		Х	
6	Process to initiate rapid response	Х		
7	Ongoing interdisciplinary education		Х	
8	Literature provided to patients in clinic		Х	
9	Equipment available at the bedside	Х		
10	Tracking & monthly review; incidence/mortality; process measure	Х		
11	Monthly review compliance; screening & bundles	Х		
12	Monthly RCA analysis sepsis cases		Х	

Sepsis, all cause, in-patient mortality-PPS: Q2 2019



Sepsis, all cause, in-patient mortality-PPS: Q2 2019



Resource Links

- Sepsis Resources: <u>https://www.mnhospitals.org/quality-patient-safety/quality-patient-safety-improvement-topics/sepsis#/videos/list</u>
- Sepsis Road Map: <u>https://www.mnhospitals.org/Portals/0/Documents/p</u> <u>atientsafety/Sepsis/Sepsis%20Road%20Map.pdf</u>

Contact information

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Michigan Health & Hospital Association



A Certified Patient Safety Organization

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GLPP HIIN Sepsis Improvement Data



*Per 1000 patient days compared baseline period Q4 2015 – Q3 2016 to performance period 10/1/2016 – 12/31/2019

Michigan's Sepsis Presentation

Sepsis Practice Collaborative Model

A content refresh of sepsis fundamentals

Best Practice Diagram

A compilation of sepsis best practices and lessons learned

Process Discovery Tool

Performing medical record reviews to identify improvement opportunities

Sepsis Simulations

Learning by doing

Sepsis Practice Collaborative Model

• High-level overview of sepsis fundamentals

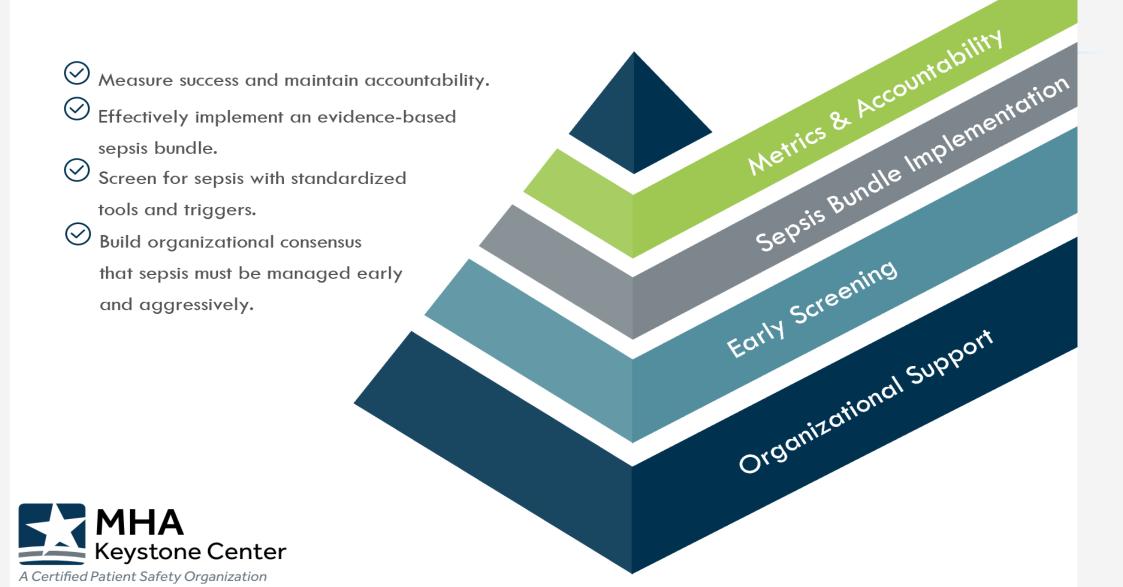
- Visual model providing a content refresh
- Sepsis program development/sustainability



Ideal for Sepsis Coordinators

Sepsis Practice Collaborative Model

Based on the MHA Keystone Center Spring Workshop 2019 Presentation by Pat Posa RN, MSA, FAAN



Collection of Blood Cultures & Antibiotic Administration

Based on GLPP HIIN Gap Analysis Surveys



QUESTION 1

Do all patients screening positive for severe sepsis/septic shock have blood cultures drawn within three hours of presentation?



QUESTION 2

Do all patients screening positive for severe sepsis/septic shock have blood cultures drawn prior to initiating broad spectrum antibiotics?



QUESTION 5

Do all patients screening positive for severe sepsis/septic shock receive an initial dose of a broadspectrum antibiotic within three hours of presentation?



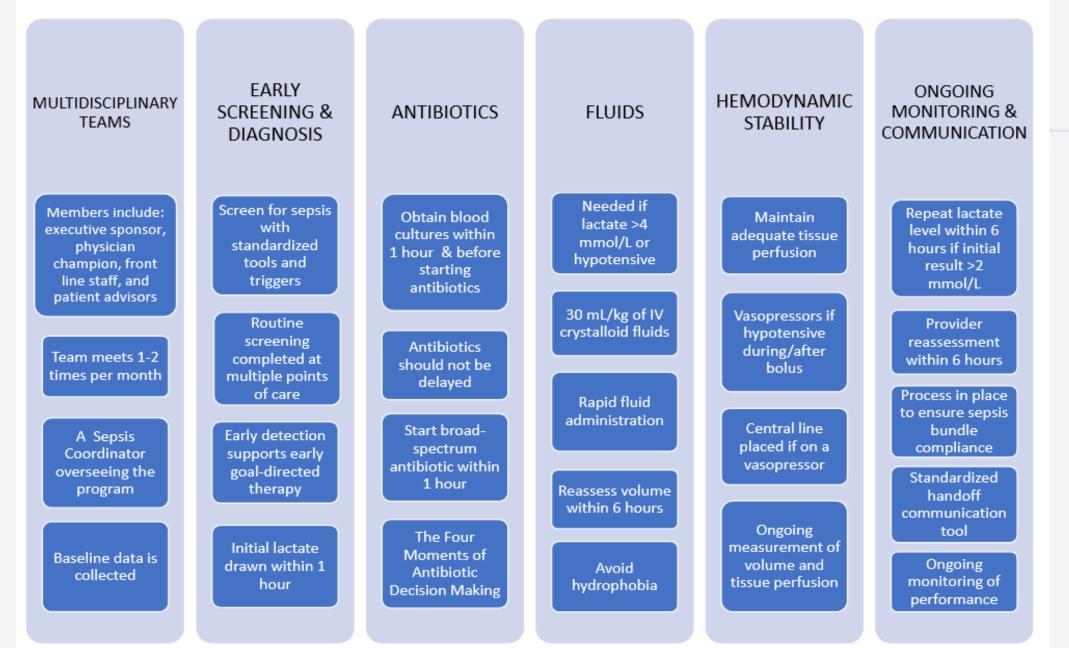


Accelerating Improvement at the Point of Care

Sepsis Best Practice Diagram

- Compilation of sepsis best-practices from 2016 to 2020
- Specific to adults in acute care settings
- Outlines 6 crucial elements for an evidence-based sepsis program
 - 1. Multidisciplinary Teams
 - 2. Early Screening and Diagnosis
 - 3. Antibiotics
 - 4. Fluids
 - 5. Hemodynamic Stability
 - 6. Ongoing Monitoring and Communication

Sepsis in Adults - Best Practice Flow Diagram



Process Discovery Tool

• Chart reviews to identify system gaps

• Provides real-data

• Results are used to drive improvement

- Improvement Sprints
 - Can be used as a stand-alone tool



The Process Improvement Discovery Tool is meant to help hospitals provide safer patient care by completing an assessment to identify process improvement opportunities. Hospitals can use the results to develop specific strategies to address gaps and identify resource needs. Please complete the tool using patient charts that align with this specific topic.

Sepsis Process Improvement Discovery Tool (Minimum 5 charts/Maximum 10 charts) Note: Do NOT spend more than 20-30 minutes per chart!

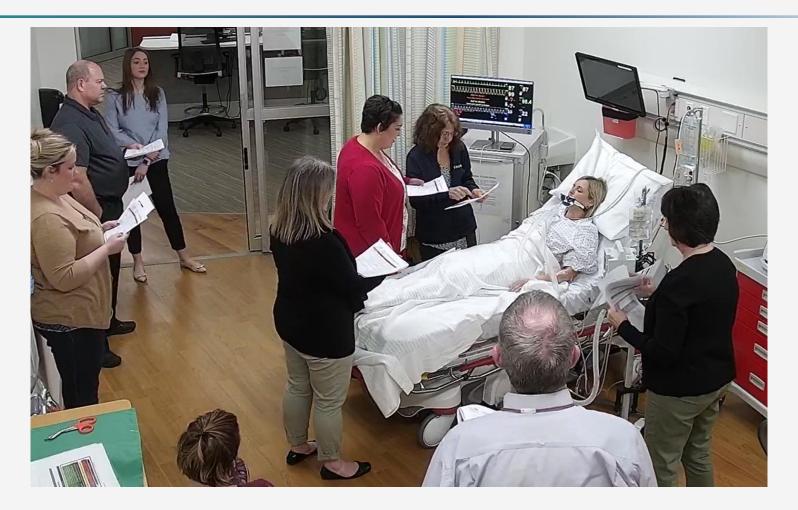
Instructions: (1) If the answer to the question is 'Yes", mark an X in the box to indicate that the desired process was discovered. You may check more than one box per chart. (2) The processes that are not marked with an X may indicate the most common failures and could be a priority focus. (3) Put N/A if the process is not applicable

			·							
PROCESS	Chart 1	Chart 2	Chart 3	Chart 4	Chart 5	Chart 6	Chart 7	Chart 8	Chart 9	Chart 10
Screening	bereening									
Patient was screened for sepsis within 30	х	х	х	х	х	х	Х	х	х	х
minutes of arrival to the emergency										
Inpatient sepsis screen completed at least once	N/A	Х	х	Х	N/A			Х	х	Х
per shift?										
(N/A once sepsis identified in ED or inpt unit)										
If sepsis screen is positive, sepsis alert activated	Х	Х	Х	Х	Х	Х		Х	Х	Х
overhead with positive sepsis screen?										
3 hour bundle compliance										
Blood cultures drawn within 30 minutes of				Х			Х			
positive sepsis screen AND prior to antibiotic										
administration?										
Serum lactate drawn and resulted within 60	Х	Х		х	Х	Х	Х		Х	Х
minutes of positive sepsis screen?										
Broad spectrum antibiotics initiated within 60	Х	Х	х	х		Х	Х		Х	Х
minutes of positive sepsis screen?										
Fluid 30ml/kg initiated within 60 minutes of	N/A	N/A	N/A	х			Х	N/A		х
positive sepsis AND completed within 180										
minutes of positive sepsis screen for pts with										
hypotension SBP< 90mmHg and or lactate										
>2mmol/dL										
6 Hour Bundle Compliance		-	_		-	-		-	-	-
Vasopressors administered for MAP <65mmHg?	N/A	N/A	N/A	Х	N/A	Х	N/A	N/A	Х	х
Repeat serum lactate drawn & resulted within 6		х		х	х	х	Х		х	х
hours after initial elevated lactate?										
Fluid reassessment done at the end of the fluid	N/A	N/A	N/A	х	х		Х	N/A	х	х
resuscitation?										

Sepsis Simulations

- Adults learn best by doing
 - Hands-on, real-life scenarios
- 3 scenarios
 - Emergency Department (ED)
 - Care transitions (ED to Intensive Care Unit)
 - General medical floor
- Train the trainer
 - How to effectively lead a simulation in your organization

Sepsis Simulations



Questions?

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Wisconsin Hospital Association



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Wisconsin Sepsis Initiatives

Sepsis Transfer Communication

- Nursing protocols and order sets
- Point of Care tacking tool

Sepsis Checklist

- Proactive Review vs Reactive Review
- Improve communication with providers through use of dashboards

Sepsis IT

- Early recognition
- Decision Support Tools
- Sepsis Rapid Response Team

YouTube Sepsis Videos

Suspected Sepsis Protocol

Screen every pt Q8H, start here. Sepsis = 2 or more SIRS Criteria plus a suspicion of infe		Monitor for Severe Sepsis: Addition of any 1 of the MAP < 65 or SBP<90 Decrease in SBP by > 40 mmHg Initial Lactic Acid > 2.0	Action Plan 1)Repeat Lactic Acid if no reflex
2 or more SIRS Criteria Temp>100.9 or <96.8 Heart rate >90 RR>20 WBC >12000 or <4000 or >10% Bands Suspected Infection Examples Urinary Complaints (pain, blood, increased frequency) Respiratory complaints (cough, SOB) Abdominal complaints (abdominal pain, diarrhea, N/V) Skin complaints (redness, pain, open wound) Neurological complaints (headache/confusion/neck pain, Δ in LOC) ****Initiate Sepsis Paper Flow Chart – See reverse	Action Plan 1) Start RN Suspected Sepsis Protocol order set. (enter as protocol order) • Blood Cultures X2 • Lactic Acid – reflex if >2.0 • CBC & CMP • Infuse 1L NS Bolus 2) Notify MD and Request ABX 3) Continue to evaluate for Severe Sepsis or Septic Shock. 4) If Lactic acid was already performed and <2.0, Repeat Lactic Acid with any change in condition.	Acute respiratory failure with need for new BiPAP/CPAP or ET Urine output <0.5ml/kg/hr x 2hrs *Ptr <100,000 *Creatinine >2.0 *Total Bili >2.0 new onset *INR >1.5 or PTT > 60 seconds. *Criteria may not be valid if lab value is Baseline for pt. Evaluate for Septic Shock: Addition of any 1 below. Lactic acid ≥ 4.0 Despite fluid resuscitation MAP ≤ 65 or SBP <90	1)Repeat Lactic Acid if no reflex 2) Notify MD and Anticipate orders. • Fluids 30mL/kg • Administer ABX 3)Monitor for Septic Shock Action Plan 1)Repeat Lactic Acid if no reflex 2)Notify MD and Anticipate the following • Vasopressors & Fluids & Additional IVs • Central Line & CVP • Respiratory Assistance 3) MD to Document Perfusion • See Severe Sepsis Template

Stop Sepsis Early and Save Lives!

RN Suspected Sepsis Protocol Order Set

Order	SCH	Start/Stop		
RN Suspected Sepsis Protocol				
General				
IV - Insert				
✓ NOW	Toda	ay Now		
Intervention Text				
Vital Signs - Sepis				
✓ Q1HX4	Toda	ay Now		
Intervention Text				
Cardiac Telemetry- Continuous				
✓ CONTINUOUS	Toda	ay Now		
Intervention Text				
Pulse Oximetry - Continuous				
CONTINUOUS	Toda	ay Now		
Intervention Text				
Blood Culture				
✓ Stat	Toda	ay Now		
* Quantity	2	·		
* Specimen	Send some	one from the depart		
* MIC Source	Blood			
Specimen Description	Venous			
Obtain cultures prior to initiating antimicrobial therapy as not delay care by 45 minutes or more.	s long as it does			
Lactic Acid Blood				
✓ Stat	Toda	ay Now		
* Specimen	Send some	one from the depart		
Comments	if result > 2 until < 2	; repeat lactate lev		
Comprehensive Metabolic Panel				
✓ Stat	Toda	ay Now		
* Specimen	Send some	one from the depart		
Comments				
CBC w Automatic Differential				
✓ Stat	Toda	ay Now		
IV Fluids				
IV-NS 0.9%				

June 19, 2020

Sepsis Point of Care Tracking Tool

Sepsis Flow Chart - to be handed off from Department to Department and shift to shift. Time Action Pt is identified as suspected sepsis ____ □ ____i___ **RN Starts Suspected Sepsis Protocol** □ ____i___ Provider Notified Lactic acid (Q2H until ≤2.0) Due next ____ Due Next ____ ____ Blood cultures completed ____ _____ CBC/CMP completed Second IV site ____ ______ l" Liter fluid Bolus started Total Volume required for pt _____L □ ____i l^{it} Liter documented on I/O Antibiotic Started _____ 2nd Liter fluid started ____ 2nd Liter documented on I/O ----______ 3nd Liter fluid started 3nd Liter Documented on I/O п ____ 4nd Liter fluid started ____ 4nd Liter Documented on I/O __مأمد 5nd Liter fluid started ____ 5nd Liter Documented on I/O _____ Vital signs Q1H until stable. I/O recommended hourly until stable. Continue to monitor for Septic Shock. *****Attach Pt sticker. RN When completed, please return form to Sepsis binder in the Acute Care nurses station. Confidential This document is prepared pursuant to the guidelines of Section 146.38 of the Wisconsin Statues and is to be used for the purpose of reviewing or evaluation of the quality of care and services of the hospital and the individual healthcare providers working at the hospital

June 19, 2020



Lowest 2 consecutive B/P's in the one hour following fluid administration the exact time IVF dote! Date Time BP MAP Complete sepsis bundles above plus: Vasopressors administered within 6 hours of presentation of septic shock if hypotension persists after fluid administration. Repeat volume status and tissue perfusion assessment within 6 hours of the presentation of septic shock consisting of either a focused exam (must be done and documented by MD/NP/PA) including: Virtials signs reviewed -Cardiopulmonary evaluation -Cargliay refil examination (must state this specifically) -Peripheral puise evaluation -Skin examination -Skin examination -Skin examination -Complete septic shock index	Aurora Hea	lth Care	Sepsis Checklist-IP Patient label												
Severe Sepis Obtain 2 Blood Cultures by Grow antibiotics are started Administer Antibiotics (Must be started within the 3-hour timeframe of sepis recognition or presentation-dependent to the completed within the 3-hour timeframe of sepis recognition or presentation-dependent to the completed within the 3-hour timeframe of sepis recognition or presentation-dependent to the completed within the 3-hour timeframe of sepis recognition or presentation-dependent to the completed within the 3-hour timeframe of sepis recognition or presentation-dependent to the completed within the 3-hour starter than or equal to 4, or documented Septic Shock. If concern for patient to the completed within the 3-hour starter than or equal to 4, or documented Septic Shock. If concern for patient to the completed with MD to have rate run at 126ml/hr to ensure adequate volume resuscitation per sepis puddelines and minimize volume overload. If clinically able, LP is the preferred type for sepisi Administer Antibiotics (Must be administration per sepis puddelines and minimize volume overload. If actic acid is present time: 			Best Clinical Practice and Measure												
Severe Severe sepis Administer Antibiotics (Must be started within the 3-hours through. presentation-goes not hours to be completed within the 3-hours though. If 2 antibiotics ordered, give broad spectrum first or give simultaneously if compatible. 3 hour Bundle Administer X0m/kg crystalloid for Hypotension, Lactate greater than or equal to 4, or documented Septic Shock. If common for gatient to the start films (Lough, discuss within MD to have rate run at Z3em/khr to ensure adequate volume resuscitation per sepsis puidelines and minimize volume overload. If clinically able, Li is preferred VF for bate:			Draw lactic acid (gray tube placed on ice or use iSTAT [ED only])												
Severe sepsis presentation-docs not have to be completed within the 3 hours though. If 2 antibiotics ordered, give broad spectrum first or give simultaneously if compatible. Administer Som/kg crystalloid for Hypotension, Lacture greater than or equal to 4, or documented Septic Bundle Bundle Administer Som/kg crystalloid for Hypotension, Lacture greater than or equal to 4, or documented Septic Shock. If clinically able, ut is Administer Som/kg crystalloid for Hypotension, Lacture greater than or equal to 4, or documented Septic Shock. If clinically weight in kg: TWF: .9KS Reserved Sequence (Section Section S															
3 hour bundle Administer 30m/kg crystalloid for Hypotension, Lactate greater than or equal to 4, or documented Septic Shock. If concentry able, LP is the preferred VF for sepsis Administer 30m/kg crystalloid for Hypotension, Lactate greater than or equal to 4, or documented Septic sensure adequate volume resuscitation per sepsis guidelines and minimize volume overfoad. Temperature Measurement If cinically units of the preferred sepsis If cinically Date:			presentation- <u>does not have to be completed within the 3 hours though</u> . If 2 antibiotics ordered, give broad spectrum first or give simultaneously if compatible.												
Measurement If lactic acid is greater than 2 mmol/L, release the IF CONDITION MET order for repeat lactic acid level 4 hours after initial level. [level MUST be drawn within a maximum of 6 hours from initial level] Severe Sepsis Initial lactic acid la Level. [level MUST be drawn within a maximum of 6 hours from initial level] Bundle Repeat Level Required: Yes No Bundle Complete severe sepsis bundles above plus: Septic Shock is present if Lactate is greater than or equal to 4 mmol/L, OR there is persistent hypotension in the 1 hour following 30mR go crystalloid fluid administration (needs to be at least 2 consecutive systolic BF's below 90, MAP less fhan 65 or SBP drop of greater than 40) Crystalloid Fluids Completed: Date/Time: Remather complete each TF bag on MAP less than 65 or SBP drop of greater than 40) Crystalloid Fluids Completed: Date/Time: Remather complete each TF bag on MAP less than 65 or SBP drop of greater than 40) Complete sepsis bundles above plus: Complete sepsis bundles above plus: Vasoprescors administered within 6 hours of presentation of septic shock if hypotension persists after fluid administration. Repeat volume status and tissue perfusion assessment within 6 hours of the presentation of septic shock consisting of either a focused eaun (must be dome and documented by MD/Ne/PA) including: -Vitals igns reviewed - cardiopulmonary evaluation - cardiopulmonary evaluation - Skin examination (-Complete Septic shock index to the second administration - Skin examination - Skin examination	3 hour	able, LR is the preferred IVF for	shock. If concern for patient tolerating fluid bolus, discuss with MD to have rate run at 126m/hr to ensure adequate volume resuscitation per sepsis guidelines and minimize volume overfoad. Resumble: complete weight in kg. IVF : .0HS VVE :												
Severe Sepsis hours after initial level. [evel MUST be drawn within a maximum of 6 hours from initial level] 6-hour Bundle nitial level. [evel Mequired: Yes No Time Due:			• • • •												
Septic Shock is present if Lactate is greater than or equal to 4 mmol/L OR there is persistent hypotension in the 1 hour following 30m/kg crystalloid fluid administration consecutive systellie B''s below 90. MAP less than 65 or SBP drop of greater than 401 Septic Shock Crystalloid Fluids Completed: Date/Time:	6-hour		hours after initial level. (level MUST be drawn within a maximum of 6 hours from initial level) Initial lactic acid Level: Time Drawn:												
Complete sepsis bundles above plus: Vasopresson administered within 6 hours of presentation of septic shock if hypotension persists after fluid administration. Repart volume status and tissue perfusion assessment within 6 hours of the presentation of septic shock consisting of either a focused exam (must be done and documented by MD/NP/PA) including: Vitals signs reviewed Capillary refill examination (must state this specifically) Vasibul evaluation Capillary refill examination Skin examination Skin examination Complete Septic Shock Index	Septic Shock		Septic Shock is present if Lactate is preater than or equal to 4 mmol/L. OR there is persistent hypotension in the 1 hour following 30mikg crystalloid fluid administration (needs to be at least 2 consecutive systolic BP's below 90, MAP less than 65 or SBP drop of greater than 40) Crystalloid Fluids Completed: Date/Time:												
Vasopressors administered within 6 hours of presentation of septic shock if hypotension persists after fluid administration. Repeat volume status and tissue perfusion assessment within 6 hours of the presentation of septic shock consisting of either a focused exam (must be done and documented by MD/NP/PA) including: -Vitals signs reviewed -Cardiopulmonary evaluation -Cardiopulmonary evaluation -Cardiopulmonary evaluation -Skin examination -Skin examination -Complete Septic Shock Index			Date Time BP MAP												
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Build administration. Repeat volume status and tissue perfusion assessment within 6 hours of the presentation of septic shock consisting of either a focused exam (must be done and documented by MD/NP/PA) including: Vitals signs reviewed Vitals signs reviewed Vitals signs reviewed Capillary retail examination (must state this specifically) Bundle Pripheral public evaluation Skin examination Skin examination Skin examination Skin examination			Complete sepsis bundles above plus:												
Septic Shock															
Central Venous Pressure measurement (CVP)			consisting of either a focused exam (must be done and documented by MD/NP/PA) including: -Vitals signs reviewed -Cardiopulmonary evaluation -Capillary refil examination (must state this specifically) -Peripheral pulse evaluation -Skin examination -Complete Septic Shock Index OR any a of the Following (CVP and SvO2 can be nurse documented on Epic Flow sheets):												
Central Venous Onygen measurement (SvO2) Bedxide Cardiovascular Ultrasound Passive Leg Raise or Fluid challenge			Bedside Cardiovascular Ultrasound												

		SE	PSIS						
SEPSI Documented or press 2 or more SIR! • T>38.3 or <36 ¹ (>101 or <96.8 • P>90 • RR>20 • WBC>12 or <4	rmed infection + 5 criteria: C F)	SEPSIS + one of SEPSIS + one of SBP <90, or SBP drop > 4 Lactate > 2 Creatinine > UOP < 0.5 ml	E SEPSIS of the following: MAP < 65, or 10 2 or 1/kg/hr for 2 hours atory failure Bipap r	SEPTIC SHOCK SEVERE SEPSIS + persistent hypotension despite adequate fluids: SBP < 90, or MAP < 65, or SBP drop > 40, or Lactate >= 4					
			OTIC SELECTION						
the second se	the second se	and the second		m white and (1) from grey in table 5.1					
TABLE 5	5.0 (only 1 nee	eded)	TABLE 5.1 (c	combination of 2 needed)					
Trade name	Generic Na	me	Trade name	Generic Name					
	Doripenem		Amikacin	Amikacin					
invanz	Eratepenen		Garamycin	Gentamicin					
Primaxin	Imipenem/		Kantrex	Kanamycin					
Merrem	Meropener		Nebcin	Tobramycin					
	Cefotaxime		Azactam	Attreonam					
Claforan Fortaz	Ceftazidim	<u>.</u>	Cipro	Ciprofloxacin					
Fortaz Rocephin	Ceftriaxone		Ancef	Cefazolin					
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Provider Dashboards

Prasad	2019 Sepsis Statistics												
12	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	year to date
Severe Sepsis pass	1	1	0	0	0	1	3	2	0				8
Severe Sepsis fail	0	1	0	0	0	1	0	0	0				2
Septic Shock pass	0	0	0	1	0	1	0	0	0				2
Septic Shock fail	0	0	0	0	0	0	0	0	0				0
% passed measure	100.0%	50.0%	#DIV/0!	100.0%	0.0%	66.7%	100.0%	100.0%	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	83.3%
Chances to use order set	1	2	0	1	0	3	3	2	0				12
Order set used	1	2	0	1	0	3	3	2	0				12
Order set used %	100.0%	100.0%	#DIV/0!	100.0%	0.0%	100.0%	100.0%	100.0%	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	100.0%
failed	0	1	0	0	0	1	0	0	0	0	0	0	2
passed	1	1	0	1	0	2	3	2	0	0	0	0	10
total cases	1	2	0	1	0	3	3	2	0	0	0	0	12

Fallout Causes

Failed antibiotic selection per CMS guidelines. Needed additional antibiotic administered in initial 3 hours.
Failed antibiotic selection per CMS guidelines. Needed additional antibiotic administered in initial 3 hours.
None. Great Job!

Total ED Providers

2019 Sepsis Statistics

GOAL 68.63%		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	year to date	
GUAL 08.03%	Severe Sepsis pass	8	9	4	6	5	5	8	11	5				61	
	Severe Sepsis fail	1	3	0	1	2	1	1	1	0				10	
	Septic Shock pass	1	2	1	5	3	4	6	4	5				31	
	Septic Shock fail	1	0	0	0	0	0	3	0	1				5	
	% passed measure	81.8%	78.6%	100.0%	91.7%	80.0%	90.0%	77.8%	93.8%	90.9%	#DIV/0!	#DIV/0!	#DIV/0!	86.0%	GOAL 68.63%
	Chances to use order set	11	14	5	12	10	10	18	16	11				107	
	Order set used	9	11	4	11	9	10	16	15	11		_		96	
	Order set used %	81.8%	78.6%	80.0%	91.7%	90.0%	100.0%	88.9%	93.8%	100.0%	#DIV/0!	#DIV/0!	#DIV/01	89.7%	
	failed	2	3	0	1	2	1	4	1	1	0	0	0	15	
	passed	9	11	5	11	8	9	14	15	10	0	0	0	92	
	total cases	11	14	5	12	10	10	18	16	11	0	0	0	107	

ED Order Set Statistics

Total sepsis cases	11	14	5	12	10	10	18	16	11				107	Using the sepsis
total with order set	9	11	4	11	9	9	16	15	11				95	order sets
passed with order set	8	10	4	10	8	9	14	15	11				89	
failed with order set	1	1	0	1	1	1	3	2	0				6	greatly
% passed with order set	88.9%	90.9%	100.0%	90.9%	88.9%	100.0%	87.5%	100.0%	100.0%	#DIV/0!	#DIV/0!	#DIV/0!	93.7%	increases the
% failed with order set	11.1%	9.1%	0.0%	9.1%	11.1%	11.1%	18.8%	13.3%	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	6.3%	chance of
														successfully
total without order set	2	3	1	1	1	1	1	1	0				11	treating your
passed without order set	1	1	1	0	1	1	1	1	0				7	
failed without order set	1	2	0	1	0	0	0	0	0				4	severe sepsis
% passed without order set	50.0%	33.3%	100.0%	0.0%	100.0%	100.0%	100.0%	100.0%	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	63.6%	and septic shock
% failed without order set	50.0%	66.7%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	#DIV/0!	#DIV/0!	#DIV/0!	36.4%	patients.
talled without order set	30.070	00.770	0.070	100.070	0.070	0.070	0.070	0.070	0.070	#014/01	#017/01	HUIV/0:	30.470	portento.







Sepsis Information Technology

• MEWS

- Automated data-gives a risk score
- 20-25 clinical triggers (data) pulls lab results, assessments
- All the results have points associated with each value and the values are totaled to produce a risk score
- The sicker the patient, the higher the score.
- Real time configuration-interventions can change the score.

Sepsis Rapid Response Team (SWAT)

- SWAT team focus on HIGH RISK scoring patients
- Review these patient's ongoing condition at least every 12 hours
- Document visit, interventions, outcomes

Development of the BPA

Best Practice Alerts

Purpose

- Early identification of patients who meet severe sepsis criteria for time-sensitive ordering
- Assist with meeting CMS quality measures for care of severe sepsis/septic shock patients

Requirements for BPA

- Accuracy identify all patients with sepsis criteria with a minimal number of false positives
- · Link to the appropriate next actions for the BPA recipient
- Require a response to the BPA but provide appropriate options to move past it



bellinhealth

YouTube Sepsis Playlist



https://www.youtube.com/playlist?list=PLGe SYWaz3y8udBTkxTNN0dIYooeZzAP8y

- Introduction to Sepsis
- Key Elements of the SEP 1 Core Measure
- SEP-1: The Repeat Lactate
- Sepsis Townhall Event: Sepsis and the SEP-1 Core Measure
- Sepsis and the SEP-1 Core Measure: Downcoding and Claims Denials
- Avoid Hydrophobia: "30 by 3" despite comorbidities in Sepsis

Illinois Health and Hospital Association



Illinois Health and Hospital Association

Adam Kohlrus MS, CPHQ, CPPS

Assistant Vice President Quality, Safety and Health Policy

June 19, 2020

Illinois's Sepsis Presentation

Implementation Playbooks

Journey to Sepsis Improvement Playbook



INTRODUCING THE PLAYBOOKS

GLPP HIIN Implementation Playbooks

Implementation Playbooks

- Reducing C. difficile Infections
- ED Recidivism and Unnecessary Hospital Admissions and Readmissions
- Daily Interdisciplinary Safety Huddle (DISH) on Device Utilization and Hospital-Acquired Infections
- Journey to Sepsis Improvement (coming soon!)
- Antimicrobial Stewardship Program
- Enhancing Partnerships to Address SDOH
- SDOH Screening in the ED

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Introduction

ABOUT THIS PLAYBOOK

Playbook Steps

STEP 1

Read the playbook guidelines and appreciate the context and the people that are involved.

STEP 2

Walk through each of the process steps and take advantage of the external information where available. You may need to refer back to the guidelines from time to time. The Playbook aims to inspire hospitals to be able to pick this up, knowing nothing about the process, and after reading it have a good handle on what the process is and what steps they could take to replicate it.

STEP 3

Digest the results and impacts and review where the process steps make sense and/or could be a challenge for your hospital.

STEP 4

Gather your team and gameplan your critical next steps to making this happen at your hospital.

How it Came to Be

Our strategic partner, Do Tank, worked closely with the IHA and hospital teams throughout the Innovation Challenge to design strategies, implementation plans, and these playbooks. The document that you are reading emerged over a 4 week process that involved interviews, mining documentation, reflections on the yearlong Challenge, and multiple iterations.



The Cast of Characters

The storyline behind the Playbook involves these wonderful people, places and organizations.



You will find additional content in the Playbook via links to external resources.

DON'T MISS THEM!





Clinical Manager for Emergency and Trauma Services

Dawn Moeller

Innovation Challenge

Awardee

Emergency Department at Advocate Aurora Health (Award Site)



Spread Partner



Jennifer Mowen

Administrative Director, Performance Improvement & Management Systems Illini Community Health (Spread Site)

The Challenge

CHALLENGE

ED Recidivism & Unnecessary Hospital Admission & Readmission

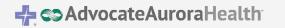
Project background

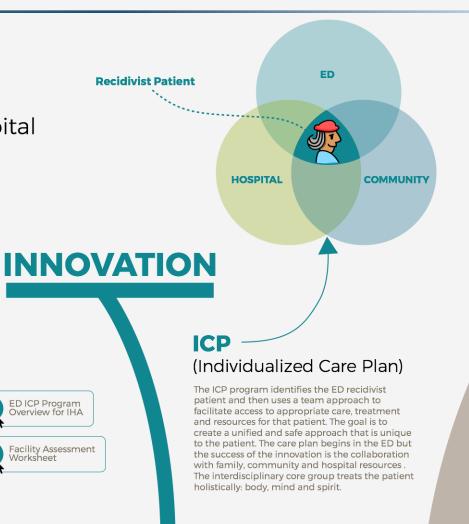
Hospital ED recidivism and readmissions are up due to a number of factors including increased substance use disorders and mental illness. ED recidivism and readmission can be reduced, and with that a tremendous cost savings, by developing an ICP (Individual Care Plan) for frequently admitted patients in order to best meet their needs.

Why it's IMPORTANT to do

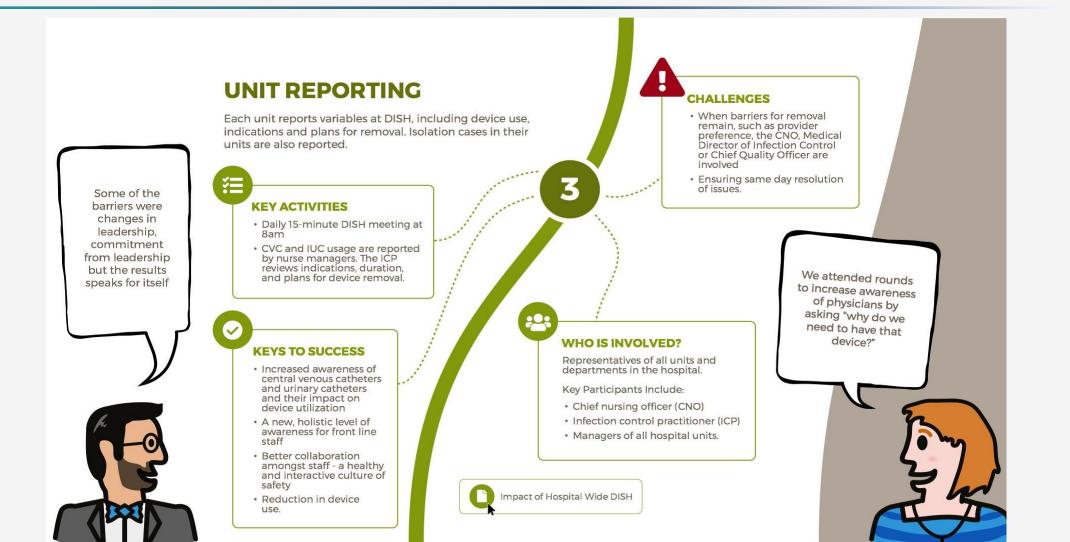
The ED delivers episodic care, and patients get fragmented care when they keep coming back. Providers feel frustrated when they can't deliver the kind of care these patients need. The ICP was designed to get at the root causes of readmission by providing a plan for frequent ED patients and a network of resources to address these problems. The team was able to empower patients to access community resources that make a difference in their own care.

Recidivism and readmission was reduced dramatically.





The Steps



IHA IMPLEMENTATION CHALLENGE: IMPLEMENTATION PLAYBOOK

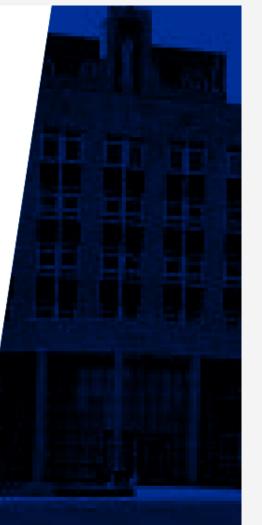
HSHS St. Anthony's Memorial Hospital Journey to Sepsis Improvement

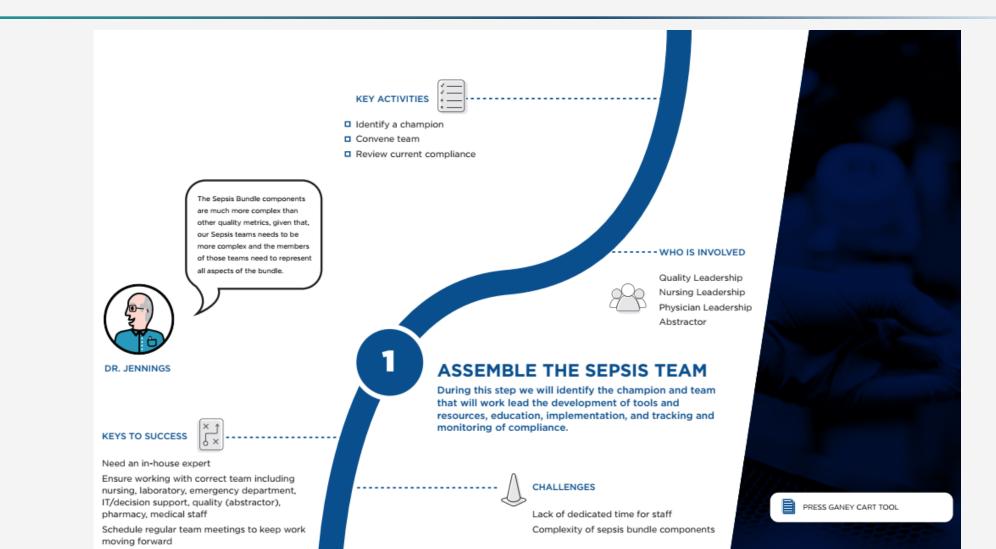
18% IMPROVEMENT IN MORTALITY RATE

517 LIVES SAVED SINCE 2014

80% BUNDLE-COMPLIANCE ACROSS DIVISION







2

KEY ACTIVITIES

 Develop an implementation timeline including time for resource develop, build into EHR, and

Tick sheet (paper form that staff could use to

Identify a process for providing feedback

The handoff from ED to inpatient is

taking place every time.

critical and presents a communication

challenge. Ensure that the clinical handoff conversation between ED and inpatient is

staff education
Develop screening tool

track and hand off)

Develop order sets

Self-auditing

DR. JENNINGS

Develop tracking tool

Algorithm - staff resource



During this step we will develop tools and resources that will support staff with sepsis bundle compliance. This includes screening tools, a treatment algorithm, order sets, and tracking tools.

CHALLENGES

Timeline for making additions or changes in current EHR system

Developing tools and resources for screening and treatment in the pediatric population

ED and hospital use different EHR systems

KEYS TO SUCCESS

Work with IT/decision support to build screening tools and order sets into EHR system Buy-in from everyone - providers.

nursing, IT and Quality

WHO IS INVOLVED -----

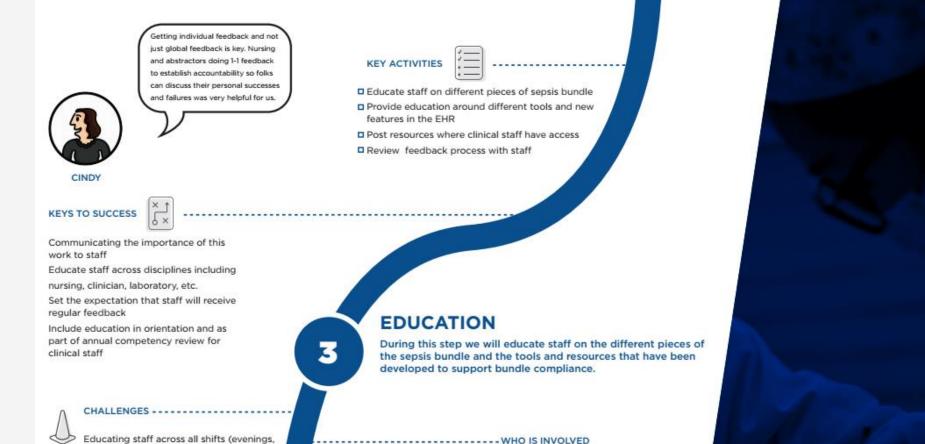
Sepsis Team IT/Decision Support

#1

It is so critical to have IT/Decision Support for the build of the order sets, this functionality is what streamlines the process into care delivery HSHS SEPSIS SCREENINGS SEPSIS TICK SHEET HSHS SEPSIS TREATMENT ALGORITHM SEPSIS ASSESSMENT AND SEPSIS ED NOTE HSHS SEPSIS ORDER SETS

e

53



Sepsis Team

Clinical staff

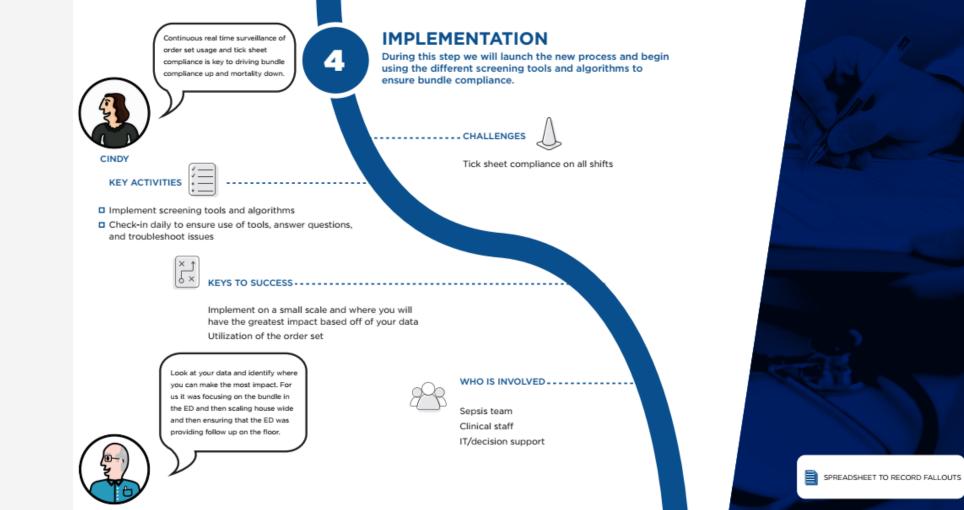
> Educating staff across all shifts (evenings, nights, weekends)

Developing a process for ongoing education

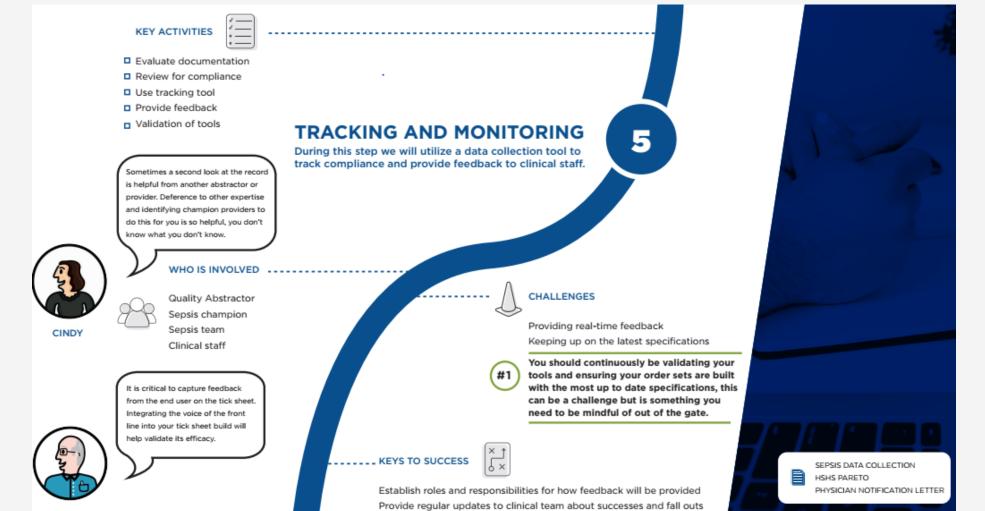
54

SEPSIS ALGORITHM EDUCATIONAL

POWERPOINT



55



DR. JENNINGS

56

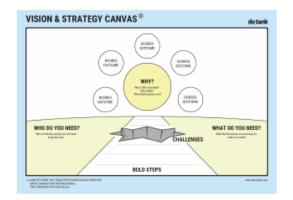
60 MINUTES TO START YOUR JOURNEY

1. Get Ready

Hover over the canvas to download it. Then print a large version of the canvas, find a quiet room, gather stickies and sharpies and as a team of 4-6 people. If you follow these steps, in 60 minutes you should have a clear picture of your implementation vision and strategy as it pertains to implementing this best practice.

2. The Why

Spend yout first 10 minutes as a team discussing the WHY and the DESIRED OUTCOMES. Why is this important to us? Why do we care? You should naturally bounce between the why and the outcomes. Make it concrete. Make it real. Be aspirational, but make sure you align as a team!



3. What Do You Need To Make It Happen?

Allocate 20 minutes to initially react to both of the questions that flank the road. "What do you need?" and "Who do you need?". The "what" is written within the context of critical resources, e.g. infrastructure, budget, data, systems, permission, time etc. The "who" is most likely the human resource necessary to make it happen and the stakeholders who will enable & support it.

4. Obstacles

Spend 10 minutes to discuss what can and will get in the way of making this a reality. Avoid turning this into a list of complaints, moans, groans etc and make it more of an honest list of challenges you will face that will have to be overcome.

5. Bold Steps

What will make it happen? Spend 10 minutes to discuss what bold steps, actions, activities will be critical in helping to realize the desired outcomes?

6. Sense Check

Spend your last 10 minutes sense checking the "storytelling version" of this canvas. Does it make sense? Can you describe it easily in 60 seconds? What is missing? Does everyone agree? Have you agreed a critical next step as a team so this wasn't just a nice thinking exercise? Go do?

INFORMATION

The Vision and Strategy canvas will help your team get off to an aligned and focused start.

BEFORE YOU START

Convene your group in a relaxed environment - an offsite location is preferable - it's critical that you get the right people in the room. A group size greater than 6 people can be a challenge to facilitate.

CHECKLIST

A fine tip marker and 3"x3" sticky notes foreach person

Print or draw the Vision & Strategy Canvas on a large sheet of paper

Tape to a wall or place at the center of a table that all people can access

Allow 60 minutes of focused time

RULES AND ROLES

Make these explicit with all attendees at the beginning of your design session

Everyone has the 'power of the pen' and can contribute ideas

Facilitate each other and avoid meandering digressions

Move with pace

Try to build something that will inspire others One clear idea per sticky note

Have fun

https://health.dotankdo.com/illinois-health-and-hospital-association/

Final questions for our presenters?

Minnesota: Jenny Schoenecker Wisconsin: Anne Allen, MSN, RN, CPHQ Michigan: Joshua Suire, BSN, RN Illinois: Adam Kohlrus MS, CPHQ, CPPS

Upcoming GLPP & MN HIIN Sustainability Webinars

- July 16: Hospital-acquired Infections
- <u>Aug. 12</u>: MHA Workplace Safety Safe Patient Handling and Mobility Call
- <u>Aug. 20</u>: Readmissions
- <u>Sept. 17</u>: Pressure Ulcers