Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

© 2015 Health Research and Educational Trust of New Jersey.

Published by the Health Research and Educational Trust of New Jersey, a non-profit affiliate of the New Jersey Hospital Association, 760 Alexander Road, Princeton, NJ 08543-0001, www.njha.com.

All rights reserved. No part of this publication may be reproduced in any form without prior written permission from the publisher. The publisher may not be held responsible for any misprints, typographical and other errors, or any consequences caused as a result of the use of this resource document.



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

TABLE OF CONTENTS

- I. Overview
- II. Instructions
- III. Training Materials
 - a. Sepsis Educational Slides
- IV. Sepsis Clinical Tools
 - a. Severe Sepsis Early Identification and Treatment Pathway
 - b. Severe Sepsis SBAR Communication Tool
- V. Training Assessment
 - a. Sepsis Education Pre-Test
 - b. Sepsis Education Post-Test
 - c. Sepsis Training Evaluation Form
- VI. Resource Page



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

OVERVIEW

This toolkit is a resource to assist healthcare organizations in implementing an early severe sepsis identification and treatment program in the post-acute (facility-based) healthcare setting. It is designed to provide post-acute healthcare organizations with an evidence-based communication tool, staff education and care pathway to assist in improving care processes to more quickly identify patients with severe sepsis and to provide timely and effective treatment.

The New Jersey Hospital Association's Institute for Quality and Patient Safety extends its gratitude to collaborative faculty leaders, Dr. Phil Dellinger, MD, MCCM, and Christa Schorr, RN, MSN, FCCM, of Cooper University Hospital and the Surviving Sepsis Campaign, for their expertise and support in this endeavor to improve sepsis-related care. Additionally, we acknowledge the following post-acute care organizations for their commitment to working with us to design and implement this toolkit:

- Allendale Community for Senior Living, Allendale
- Bergen Regional Medical Center Long term Care, Paramus
- HealthSouth Rehabilitation Hospital of Tinton Falls
- HealthSouth Rehabilitation Hospital of Toms River
- Preakness Healthcare Center, Wayne
- St. Lawrence Rehabilitation Center, Lawrenceville

To learn more about the New Jersey Sepsis Learning Action Collaborative, please visit <u>www.NJHA.com/sepsis</u> or contact Shannon Davila, RN, MSN, CIC, CPHQ, Clinical Quality Improvement Manager, New Jersey Hospital Association, at <u>sdavila@njha.com</u>.



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

INSTRUCTIONS FOR USE OF THE TRAINING MATERIALS

(All referenced materials are included in this toolkit.)

o effectively educate and train healthcare staff within your facility on sepsis using this toolkit, we suggest following these steps:

- 1. Identify the facility education and training coordinator within your facility who is the primary contact and liaison with the NJ Sepsis Learning-Action Collaborative.
- 2. Print the following materials *before* accessing the education session Web link (below). One copy of each per person:
 - a. <u>Sepsis Education Pre-Test</u> to be completed by staff *prior* to viewing the educational session
 - b. <u>Sepsis Educational Slides</u> *Definitions and Early Identification of Severe Sepsis and Septic Shock* presented by Dr. R. Phillip Dellinger, MD, MCCM and Christa Schorr, RN, MSN, FCCM. Staff may use the handout to take notes and refer to during the education session presentation.
 - c. <u>Sepsis Education Post-Test</u> to be completed by staff *after* viewing the education session
 - d. <u>Sepsis Training Evaluation Form</u> to be completed by staff at the *conclusion* of the training
- 3. Staff participating in this training should complete each form at the appropriate time during the training. Pre- and Post-tests should be returned to the facility education and training coordinator.

Click here to access the Sepsis Educational Session: https://njha.webex.com/njha/lsr.php?RCID=20ed3615b3394c179afb11ce4f4acf59

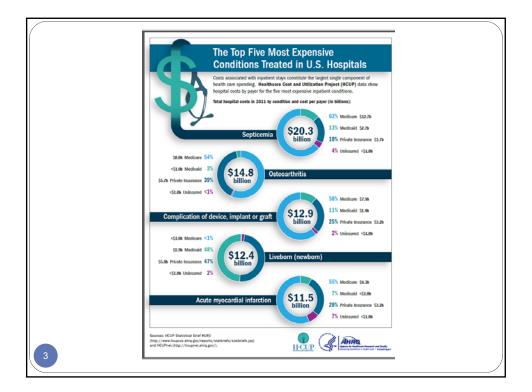
As an additional step to properly identify and treat patients who present with sepsis and to improve future sepsis education and trainings, the completed pre-tests, post-tests and de-identifiable evaluation forms returned to the facility coordinator should be forwarded to the New Jersey Sepsis Learning-Action Collaborative coordinator at <u>sdavila@njha.com</u>.





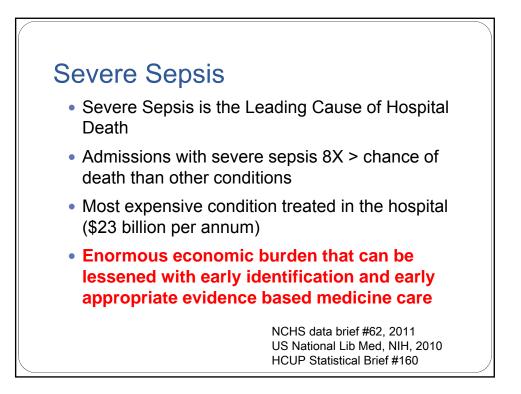












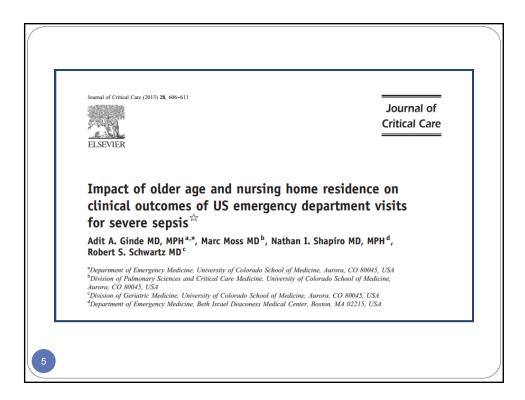
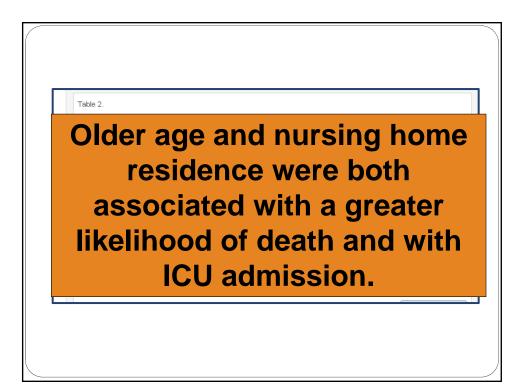
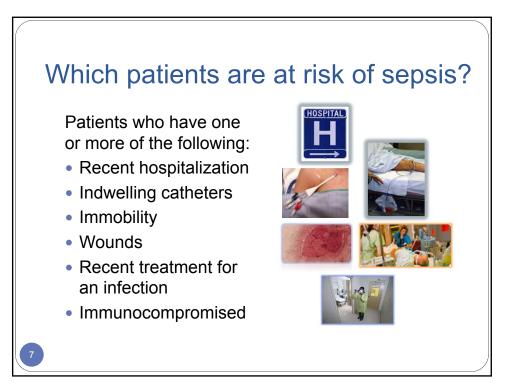


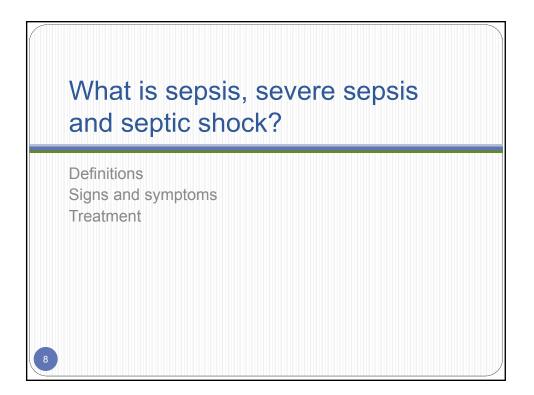


Table	2.				
-	-	-	S ED visits for severe sep	sis resulting in hospital	death vs discharged alive a
ICUV	s non-ICU ac	Imission			
Cha	racteristics	In-hospital death, %	Discharged alive, %	ICU admission, %	Non-ICU admission, %
		(95% CI)	(95% CI)	(95% CI)	(95% CI)
Age (IQI	, y, median R)	76 (64-82)	66 (47-80)	71 (61-83)	70 (54-82)
18-	44	5% (NC)	18% (15-23)	4.3% (NC)	14% (9.1-20)
45-	64	24% (NC)	28% (22-34)	32% (22-46)	25% (19-33)
65-	79	31 % (17-50)	28% (23-34)	32% (23-42)	32% (24-40)
≥8	0	39% (25-55)	26% (20-32)	28% (22-35)	29% (23-36)
	sing home dent	48% (31-64)	20% (15-26)	39% (27-52)	21% (16-29)

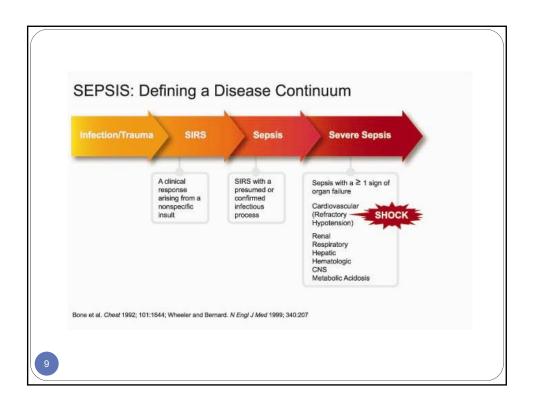


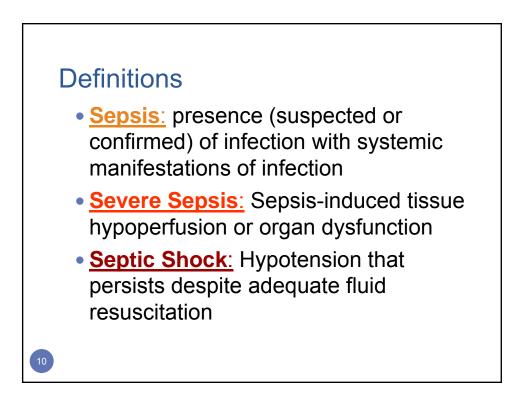




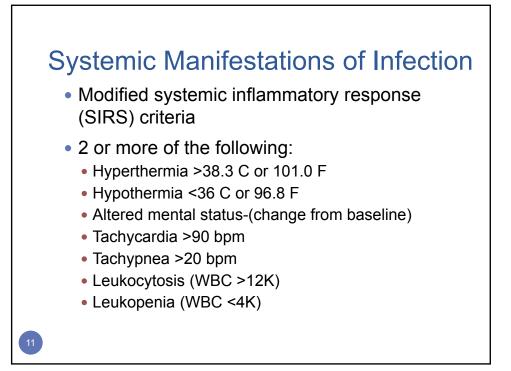


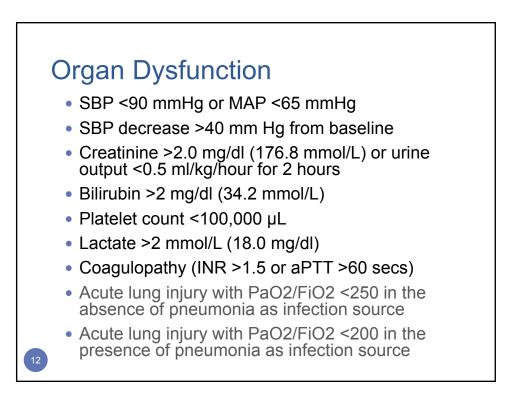




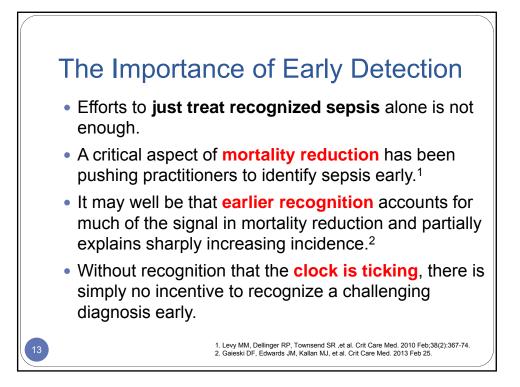


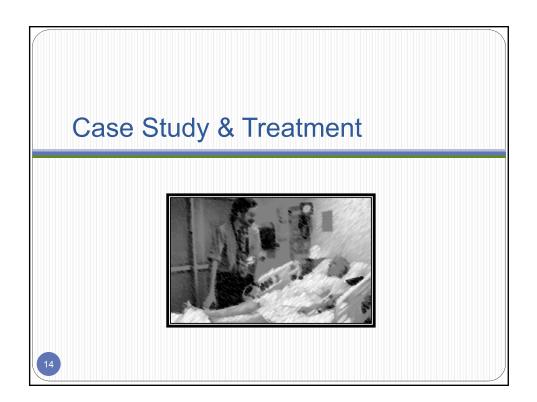




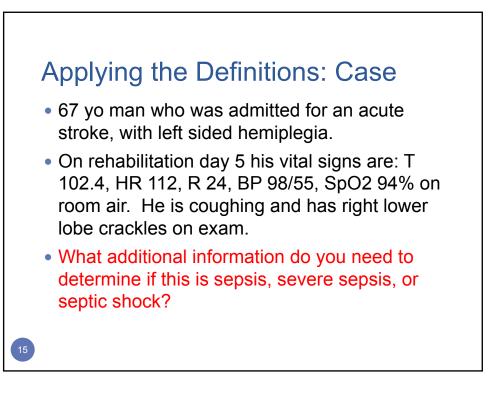


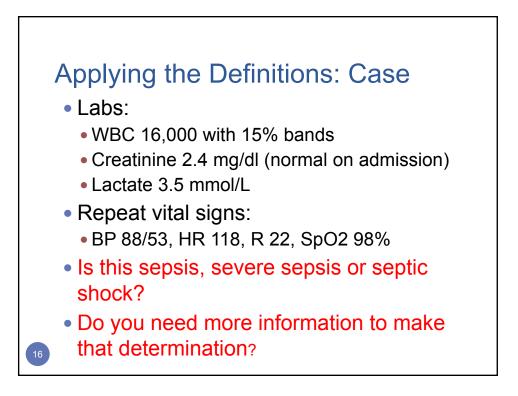




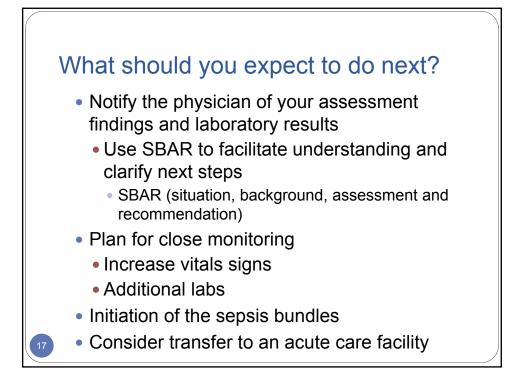


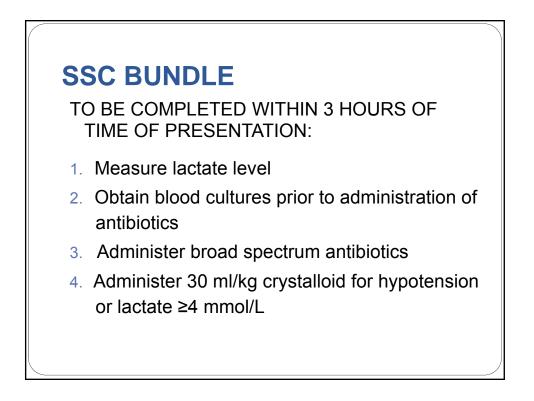




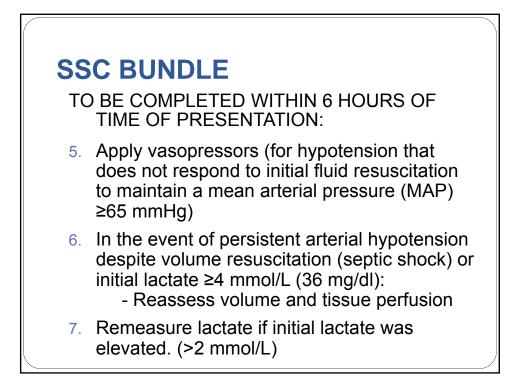


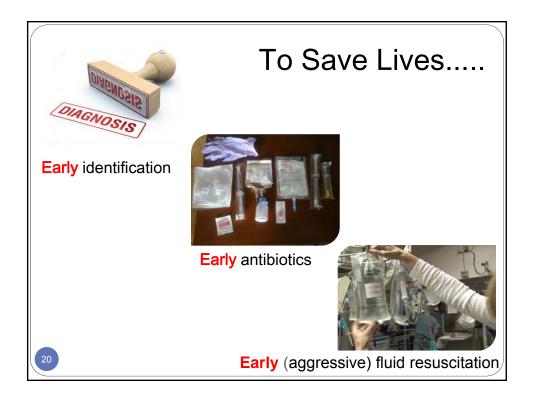














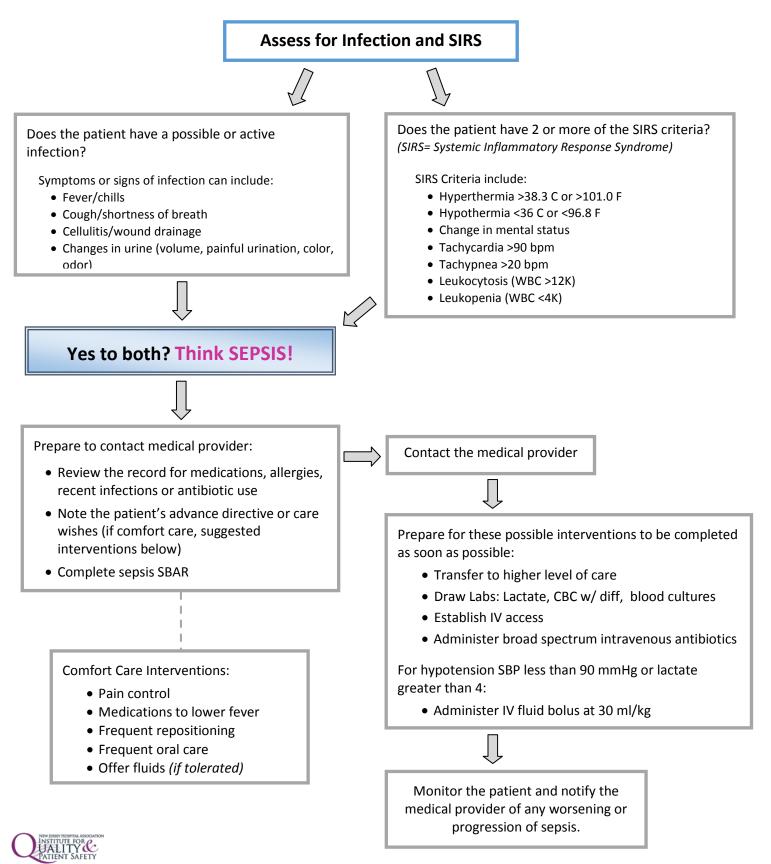




Toolkit for Post-Acute Care Settings

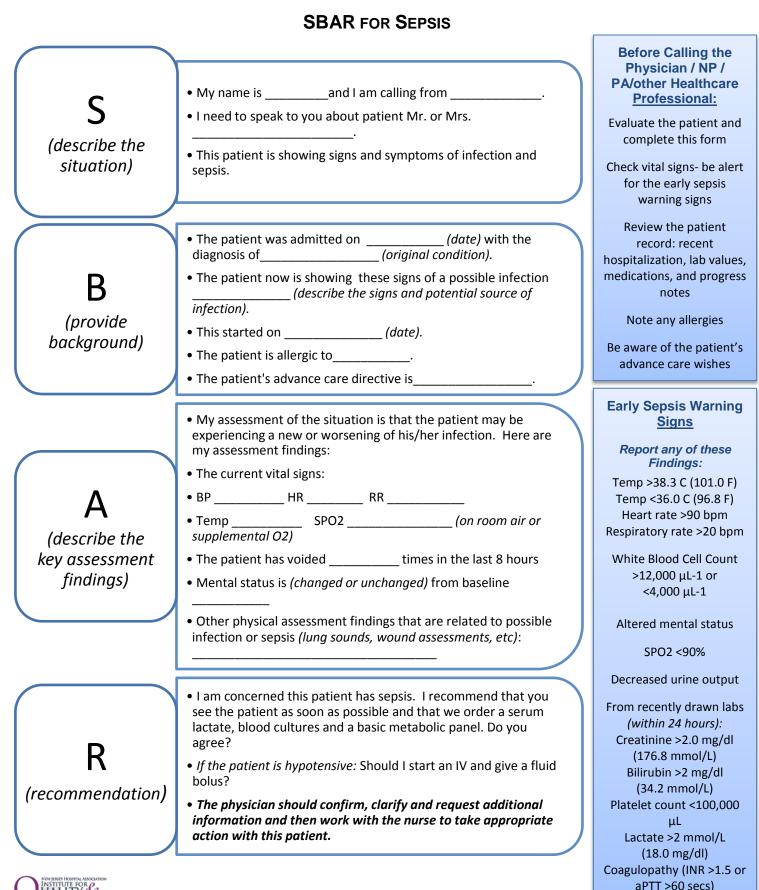
TO SAVE LIVES: Early Identification • Early Treatment

SEPSIS EARLY IDENTIFICATION AND TREATMENT PATHWAY



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment



UALITY & PATIENT SAFETY

Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

SEPSIS EDUCATION	PRE-TEST	Name:
(Learners should complete thi	s test prior to viewing the seps	Facility:
presentation)		Date:
1. Why is early detection c	f sepsis so important?	
a) Heart failure patientb) Patient with dement	tia pitalized with severe urinar	
3. Who should you notify i	f you suspect a patient has s	s sepsis?
4. What does SIRS stand fo	r?	
5. List three SIRs symptoms		
1	2	3
6. What are the four stages	s of sepsis disease?	
_		3
2		4
7. Blood cultures should be <i>True or False</i>	collected before the first d	dose of intravenous antibiotics are administered.
 8. What labs should be dra a) Lactate b) Complete blood cou c) Blood cultures d) All of the above 	awn when a patient has seps Int	osis?
 9. Which of the following la a) Lactate 2.4 mmol/L b) Creatinine 3.0 mg/d c) Platelet 80,000 uL 		nt with sepsis has worsened to severe sepsis?

d) All of the above

10. What is the volume of fluid that should be bolused to a hypotensive septic shock patient? _____



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

SEPSIS EDUCATION POST-TEST		Name:
(Learners should complete this test and the training ev viewing the sepsis presentation)	valuation after	Facility:
 Which of the following patients is at high risk of a) Heart failure patient b) Patient with dementia c) Patient recently hospitalized with severe of d) Patient recovering from a heart attack 		
2. What are the four stages of sepsis disease?		
1	3	
2	4	
3. What does SIRS stand for?		
4. List three SIRs symptoms:		
		3
5. Why is early detection of sepsis so important?		
6. Who should you notify if you suspect a patien	t has sepsis?	
 7. What labs should be drawn when a patient ha a) Lactate b) Complete blood count c) Blood cultures d) All of the above 	s sepsis?	
 8. Which of the following labs would indicate a partial as a lactate 2.4 mmol/L b) Creatinine 3.0 mg/dl c) Platelet 80,000 uL d) All of the above 	atient with sepsi	s has worsened to severe sepsis?
9. Blood cultures should be collected before the f <i>True or False</i>	first dose of intra	avenous antibiotics are administered.
10. What is the volume of fluid that should be bo	lused to a hypot	ensive septic shock patient?



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

SEPSIS EDUCATION TRAINING EVALUATION

Please rate your level of agreement with the following statements:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
The slide presentation was well organized.	0	0	0	0	0
Watching this presentation was an effective use of my time.	0	0	0	0	0
This training will help my organization improve sepsis identification.	0	0	0	0	0
I will be able to immediately use what I learned.	0	0	0	0	0
I am confident that I can perform the assessments and tasks that were trained.	0	0	0	0	0

Please rate your level of confidence in the following before this activity and after using the scale

(1="Very Low"; 2="Low"; 3="Neutral"; 4="High"; 5="Very High"):

	Before Training After Training	
My understanding of the criteria to define sepsis and severe sepsis.	1 2 3 4 5 1 2 3 4 5	5
My understanding of factors that place certain patients at high risk for developing severe sepsis.	1 2 3 4 5 1 2 3 4 5	5
My knowledge of sepsis symptoms, SIRS, and organ dysfunction criteria.	1 2 3 4 5 1 2 3 4 5	5
My understanding of the 3-hour bundle treatments.	1 2 3 4 5 1 2 3 4 5	5

What could make this training more effective?

Comments:



Toolkit for Post-Acute Care Settings

TO SAVE LIVES: Early Identification • Early Treatment

RESOURCES

New Jersey Sepsis Learning-Action Collaborative www.njha.com/sepsis

Surviving Sepsis Campaign http://www.survivingsepsis.org/Pages/default.aspx

Centers for Disease Control and Prevention - Sepsis <u>http://www.cdc.gov/sepsis/index.html</u>

Centers for Disease Control and Prevention - Nursing Homes and Assisted Living Resources <u>http://www.cdc.gov/longtermcare/</u>

Minnesota Hospital Association "Seeing Sepsis Long Term Care Resources" <u>http://www.mnhospitals.org/patient-safety/current-safety-quality-initiatives/severe-sepsis-and-septic-shock</u>

American Hospital Association's Health Research and Educational Trust "Sepsis Resources" <u>http://www.hret-</u> <u>hen.org/index.php?option=com_phocadownload&view=category&id=370&Itemid=369</u>

EVIDENCE-BASED LITERATURE RESOURCES

Goodwin, A.J., Rice, D. A., Simpson, K. N. & Ford, D. W. "Frequency, cost, and risk factors of readmissions among severe sepsis survivors." *Critical Care Medicine*. No. 43, Issue 4. (April 2015): 738-46. <u>http://www.ncbi.nlm.nih.gov/pubmed/25746745</u>

Otego, A. et al. "Hospital-based acute care use in survivors of septic shock." *Critical Care Medicine*. No. 43, Issue 4. (April 2015): 729-37. <u>http://www.ncbi.nlm.nih.gov/pubmed/25365724</u>





760 Alexander Road, Princeton, NJ 08540 www.njha.com