

Welcome Advisor Live®: September 13, 2017

Our Presentation:

Sepsis Mortality Prevention to Survivorship
The Sepsis Crisis: Practical Steps You Can Implement Today

Will Begin Shortly

Listen to Today's Audio: 800.672.0175

Download today's slides at www.premierinc.com/events



Advisor Live® Webinar

Sepsis Mortality Prevention to Survivorship

The Sepsis Crisis: Practical Steps You Can Implement Today

September 13, 2017

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AUDIO

Dial in to our operator assisted call, 800.672.0175



NOTES

Download today's slides from the event post at premierinc.com/events



QUESTIONS

Use the "Questions and Answers"

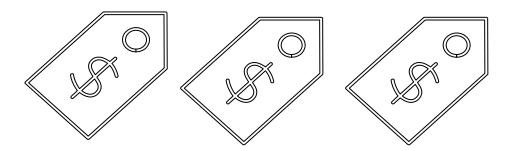


RECORDING

This webinar is being recorded.

View it later today on the event post at <u>premierinc.com/events</u>.

Sepsis costs our country more than \$20 billion annually and it is the highest cost hospital discharge for Medicare patients.





Today's Speakers

Linda Kenney, President/Executive Director, MITSS

Rosie Bartel, sepsis patient

Debra J. O'Connell, BSN, RN, CPHQ; Manager, Performance Improvement; Frederick Memorial Hospital

Madeleine Biondolillo, MD, MBA, Vice President-Quality and Safety, Premier Inc.







Patient Experiences

Linda Kenney, President/Executive Director

MITSS

Rosie Bartel, Sepsis Patient

September 13, 2017 Premier Webinar



OUR MISSION

To create more compassionate healthcare systems focused on the well-being of patients, families and healthcare providers who have been affected by adverse medical events and medical errors.

OUR VISION

For all patients, family members and healthcare providers involved in a medically induced trauma to have access to healing and supportive services.

OUR PURPOSE

MITSS produces **programs** that provide education to the healthcare community on medically induced trauma, the broad scope of its impact, and the crucial need for support services. We provide **training** directly to caregivers and healthcare staff. And we offer **support** to patients and family members as well as clinicians.

Programs

- Peer Support Tool Box
- Grand Rounds
- Organizational Assessments/Diagnostics
- Speakers Bureau
- Conferences and Symposia

Training

- Peer Support Training
- Post Event Support

Support

- Complimentary One-on-One Phone Support
- Complimentary 10-week Peer Led Virtual Support Group



Rosie Bartel and her VIP





My Children – Then







Children - Now









My Granddaughters - Then







Granddaughters - Now

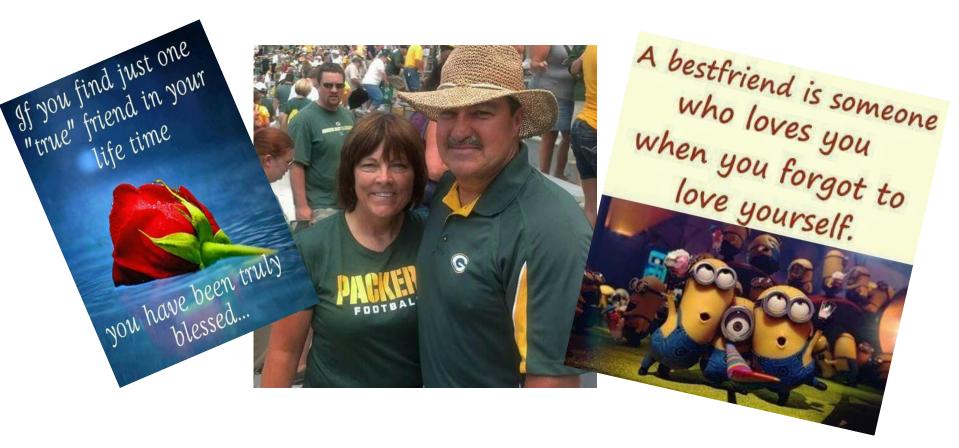








Friends – Those Stay Through It All





My Story



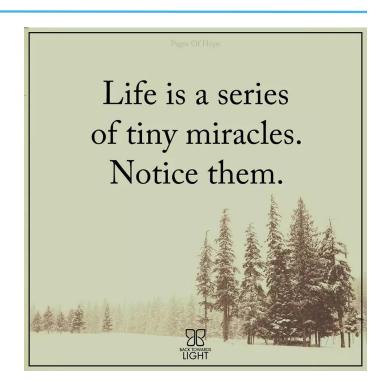






My Story and Sepsis

- How I knew I was septic
- Why am I here to tell my story
- What can you do better to understand sepsis





Final Thoughts



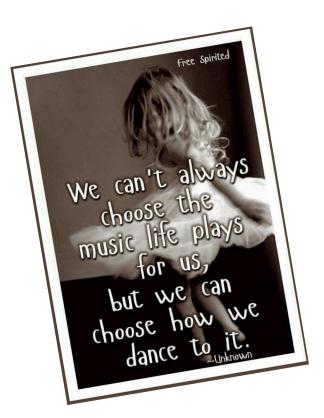








Questions











Keeping the Sepsis Mortality Odds in Your Favor

Debra O'Connell, BSN, RN, CPHQ

Manager Performance Improvement, Medical Staff Office Frederick Memorial Hospital, Frederick, MD





About Frederick Memorial Hospital



Frederick Memorial Hospital is a 299 bed private, not-for- profit community hospital in Maryland approximately 50 miles north of DC and 50 miles west of Baltimore.

Inpatient admissions = \sim 16,000 per year ED Visits = \sim 75,000 per year

- Reduced Sepsis Mortality O/E from 1.53 in 2012 down to 0.65 in CY 2016 with a few months as low as 0.10.
- Identified strategies for early identification and interventions for patients with severe sepsis and septic shock throughout the hospital setting.
- Faced multi-disciplinary challenges in creating a culture of teamwork to decrease sepsis mortality.
- Learned how to create a collaborative approach to decrease severe sepsis and septic shock mortality, including cultural changes required to secure buy in from all disciplines.









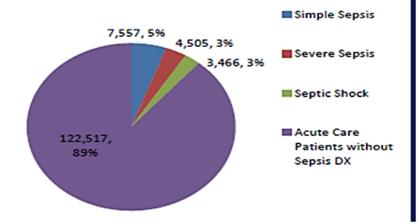




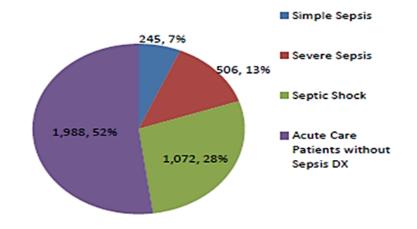


Sepsis is the #1 Cause of Inpatient Deaths

2014 Acute Care Discharges 11% of Patients Have Sepsis DX



2014 Acute Care Deaths 48% of Patients Have Sepsis DX



11/16/2016

Sepsis

• Feb 2012 Presentation (Using 2010 -2011 data)

Outcome Measure	FMH O/E Ratio	Ext Peer O/E Ratio
Mortality	1.53	0.93
Length of Stay	0.80	1.07
Readmissions	0.87	0.78

- The Observed Mortality for the sepsis population was 15.95%. But if a goal of an O/E of 0.75 was obtained, an additional 68 lives could be saved.
- 97% of patients were arriving through the Emergency Department.
- No bundles / protocols in place.
- Failure to recognize the disease process and implement appropriate resuscitation.



Teams put in Action

- Sepsis Steering Committee Formed
 - Premier Clinical Partners (Alexa Lee and Richard Ashe)
 - MD Champions (Intensivist, ED, Hospitalist)
 - Lab
 - Pharmacy
 - ICU staff
 - Infection Control Practitioners
 - ED / ICU/ M/S Nursing
 - Clinical Nurse Specialists
 - Clinical Education
 - Information Technology
 - Performance Improvement
 - Epidemiologist
 - Respiratory Therapist





Process implementation

- Sepsis Screening tool developed for use in Triage and as needed on floor when RNs suspected patient may be septic.
- Positive screen with score >2 would generate blood work/ initiate bundle.
- Referenced Surviving Sepsis Campaign bundles and IHI Evidence based Care
- Evidence Based Protocols used to develop own set of tools/ bundles to standardize identification and treatment
- Nurse driven protocol trials and implementation
- Joined Maryland Patient Safety Collaborative
- Bundles that were same as the 3 hour CMS core measure
- Collaboration with IT for development of screening tools and clinical panels



	15:26	
	by PMA	
*History Suggestive of New Infection	Yes No	
Reason	Abdominal Infection	
	Bone Infection	
	CNS Infection	
	Invasive Line/Implanted Device	
	On Immunosuppressive Drugs	
	Recent Admission	
	Recent Invasive Procedure	
	Respiratory Infection	
	Skin/Soft Tissue Infection	
	Urinary Infection	
	Wound Infection	
Other Bearing	Other	
Other Reason	0.42	
*Acute Mental Status Changes	O Yes O No	
*New Onset Chills With Rigors (shaking chills)	O Yes O No	
*New Onset Headache With Stiff Neck	O Yes O No	
*Temp Less Than 36.0 C (96.8 F) or Greater Than 38.3 C (101	O Yes O No	
*Pulse Greater Than 90 bpm	Yes No	
*Respiration Greater Than 20 breaths/min	O Yes O No	
*BP Systolic Less Than 90 (or MAP Less Than 65)	O Yes O No	
*History of Diabetes	O Yes O No O Uknown	
Glucose Greater Than 140 in a Non-Diabetic	O Yes O No	
WBC Greater Than 12.0 or Less Than 4.0	O Yes O No	
pCO2 Less Than 32.0	O Yes O No	
otal		
*Sepsis Total		
If Total >2, Provider Notified	O Yes O No	

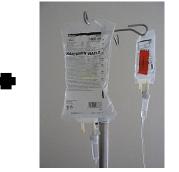


Bundle Implementation

- Blood work
 - Lactic Acid, CBC, Troponin, Chemistry Panel
 - Blood Cultures x 2 prior to antibiotic administration
- IV Fluid Resuscitation
 - 30 ml/ kg Normal Saline
- Antibiotic Administration within 3 hours of onset / identification
- Repeat Lactic Acid within 6 hours of onset of Severe Sepsis
- Vasopressors if hypotension persists after fluid bolus administration

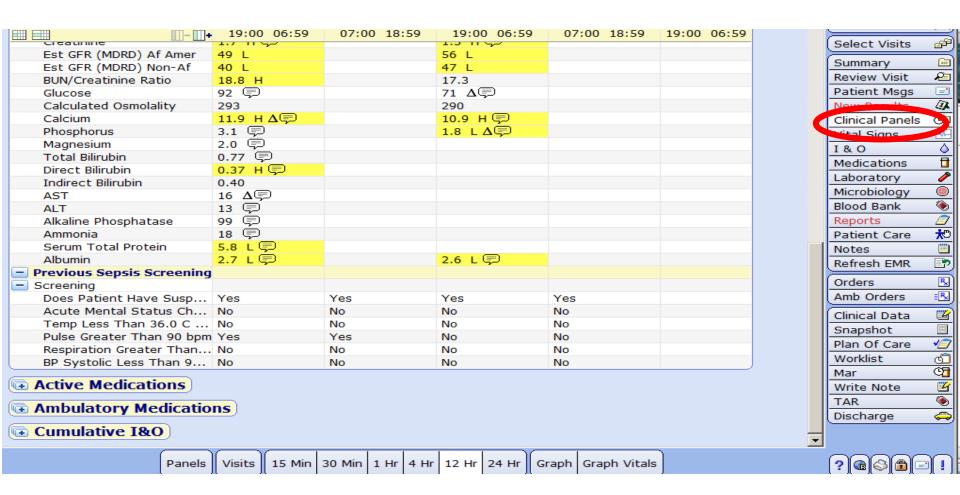












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Code Sepsis Implementation

- Bundle protocol
- Code Sepsis to alert, respond and initiate resuscitation measures for patients with lactic acid > 4.0.
 - RRT RNs responded to assist in Bundle completion and completion of checklist.
 - Other Code Sepsis team members included phlebotomy, Pharmacy, Respiratory Care, Charge Nurse, Primary Care Nurse and MD.
 - Attending MD contacted:
 - » One liter fluid bolus initiation, Blood cultures x 2, Blood tests included Lactic Acid
- After successful trials, taken to Quality Coordinating Council and Medical Executive Committee
 - Gaining approval to go live with Nurse-driven protocol hospital wide.
 - Nursing permitted to initiate 1 liter fluid bolus and then contact MD for additional orders
- Automated reflex order for repeat lactic acid if greater than 2.0.
- Education to staff / MDs

RRT QC Sepsis Checklist

Did additional staff respond to Code Sepsis? If so please list:

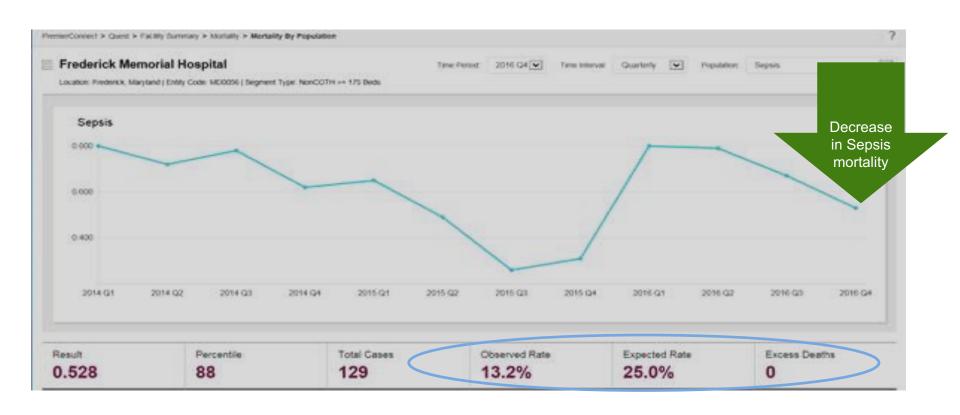
RRTQC Sepsis Checklist

ime Code Sepsis Called			
Nurse Completing Form			
Physician Involved in Code Sepsis			
INDICATOR	YES	NO	COMMENTS
stablish IV access, if unable to obtain access in 3 sticks and/or 15 minutes, notify MD immediately for line placement			
Administer 30cc/kg fluid resuscitation			
cultures of all likely sources of infection			
Blood Cultures obtained before antibiotics administered			
Appropriate antibiotic hung within 1 hour			
Repeat lactate level at 2 hours after initial			
nsert central line for SBP < 90 after adequate fluid esuscitation and/or repeat lactate is 4 or greater			
Vas central line placed using sterile procedure?			

Any issue/ concerns identified:

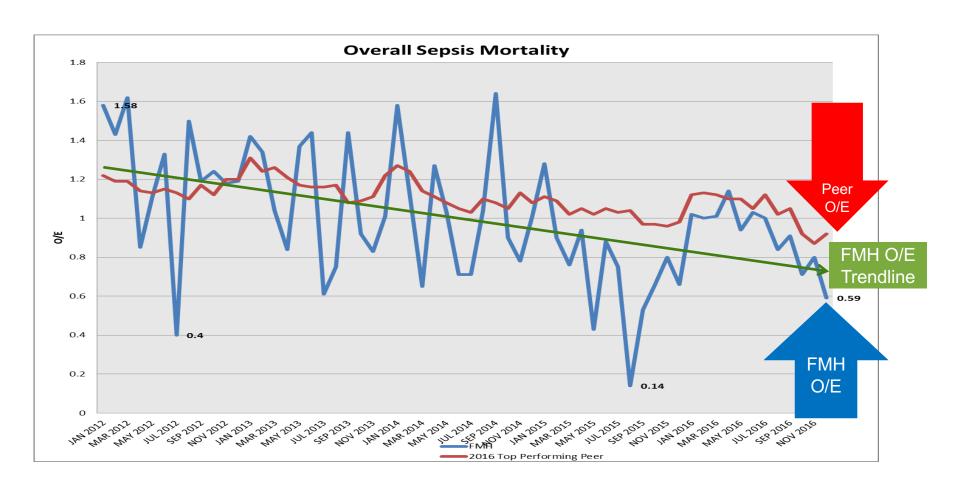


Quest - Mortality by population



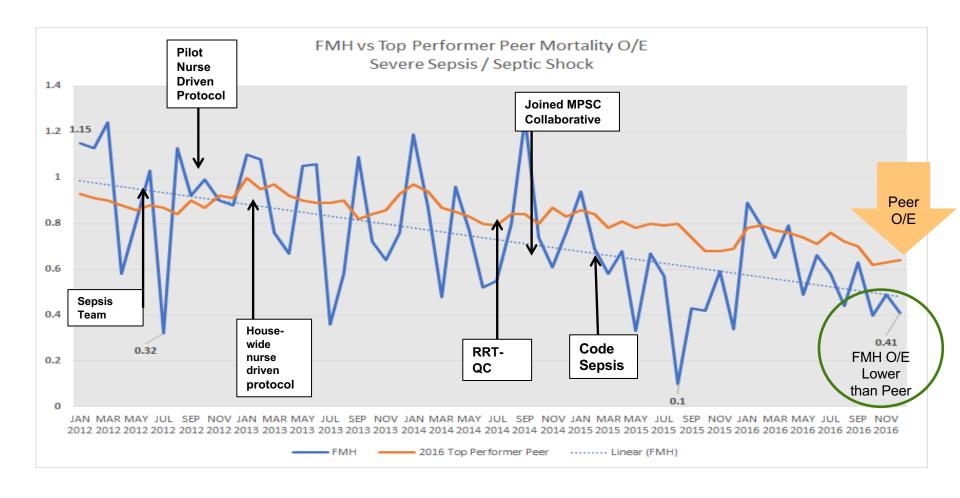


Overall Sepsis Mortality FMH vs Top Performing Peer





Mortality – Severe Sepsis / Septic Shock



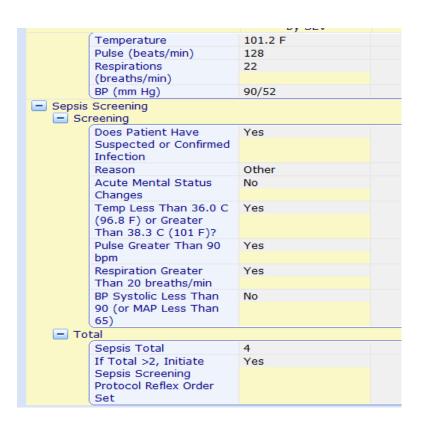
Culture shift

- Sharing success stories and positive outcomes
- Use of outcome data to track improvement
- Immediate feedback from Code Sepsis compliance / noncompliance.
- MDs supporting and educating
- RRT –QC RN support / rounding
- RN protocol initiation
- Senior Leadership
- Continued feedback to Leadership committees to be aware of outcomes
- Monthly case reviews of mortalities with physician leaders in ED, Intensivist and Hospitalist
- Sepsis screening / identification/ Revision

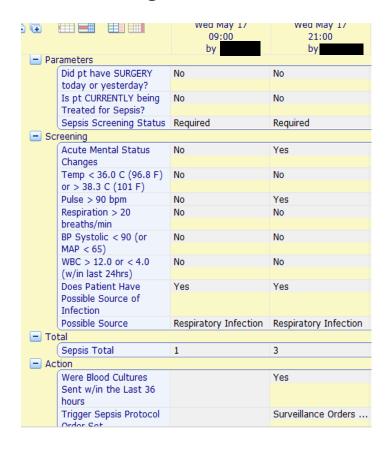


Revised Sepsis Screening / Surveillance Tools

ED Sepsis Screening Tool

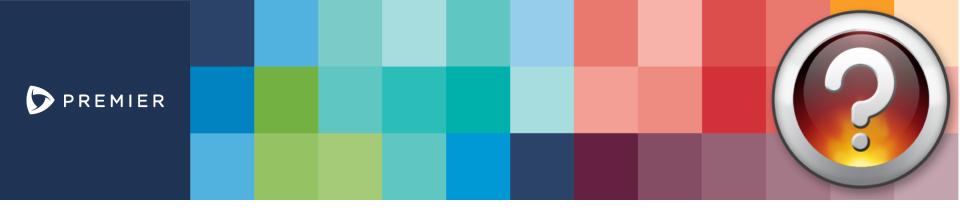


Sepsis Surveillance Screening Tool





Questions?



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