Sepsis Awareness Training

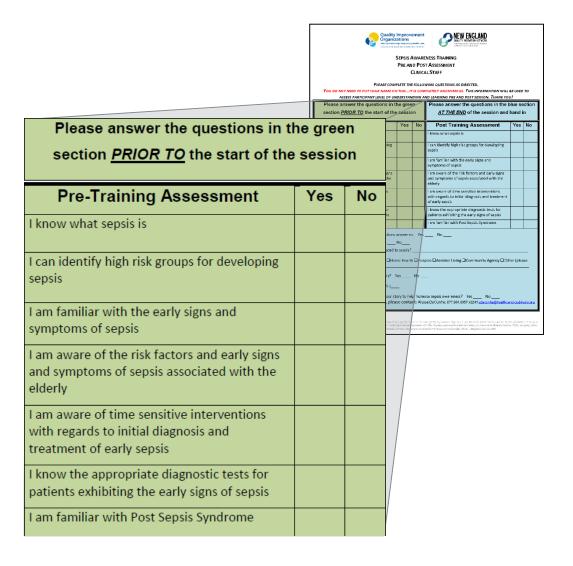
Non-Clinical Staff



Pre-Training Survey

Please complete the Pre-training Assessment questions in the **GREEN** section of the form.

Thank you!







Sepsis Training Content Outline

- Sepsis Alliance video "SEPSIS: EMERGENCY"
- What is sepsis
- Who is at risk for sepsis?
- Signs, symptoms and stages of sepsis
- What actions to take if you suspect sepsis
- Preventing sepsis
- How you can help to raise awareness and maybe save a life





Sepsis: Emergency video

Cut and paste this URL into your browser

https://www.youtube.com/watch?v=DnsQ4RIXsZY







What is Sepsis?

- Sepsis is the body's response to an infection. The body attacks itself rather than the infection ¹.
- If not treated promptly Sepsis can result in:
 - Organ Failure
 - Tissue Damage
 - Death
- Sepsis is a medical emergency!



1. (Singer, et al. JAMA 2016;315(8) 801-810)





Sepsis and Infection

- You must have an infection to have sepsis
- Sometimes people don't know they have an infection



- Sepsis can show up with different combinations of symptoms
- Sepsis can develop after a patient has been seen by a health professional ¹

1. https://www.acep.org/patient-care/dart/#sm.001mcxsdr126we9pva41rwky0ud26





Why This is Important...

- Each year over 1.5 million people in the US get sepsis and about 270,000 die from it ¹
- 18 million people die of Sepsis worldwide every year
- Sepsis is the leading cause of childhood deaths
- 1 in 3 patients who die in a hospital have sepsis ²
- A leading cause of death and healthcare costs ^{3,4}
- Sepsis is the most expensive condition treated in U.S. hospitals⁵

¹ CDC

2 CDC

- 3. Fleischmann, et al. Am J Resp Crit Care Med. 2016; 193:259-272
- 4. Iwashyna, et al. J Am Geriatr Soc. 2012;60:1070-1077
- 5.AHRQ





Why Haven't I Heard of Sepsis?

You may have heard of people dying of:

- Pneumonia
- Abdominal Infections
- Kidney Infections
- Blood Poisoning

But often the cause of death may have been sepsis





Public Awareness is Poor

- 35% of Americans have never heard of sepsis, yet 80% of sepsis cases originate in the community (outside of the hospital)
- Only 12% can identify the most common symptoms
- 50% do not know you need to seek urgent medical attention
- The public needs an understandable definition of sepsis



https://www.sepsis.org/2018-sepsis-awareness-survey/ https://www.cdc.gov/mmwr/volumes/65/wr/mm6533e1.htm?s_cid=mm6533e1_w https://ccforum.biomedcentral.com/articles/10.1186/cc11511





Sepsis and Famous People You May Know

Died from Sepsis

- Mother Theresa
- Pope John Paul II
- Patty Duke (actor)
- Leslie Nielson (actor)
- Casey Kasem (radio)

- Lawrence Welk (musician)
- Mohammed Ali (boxer)
- Prince Ranier of Monaco
- Christopher Reeve (actor)
- Jim Henson (Muppets creator)

Survived Sepsis

- Angelica Hale (child singer)
- Mary Louise Parker (actor)
- Chris Young (singer/song writer)



Angelica Hale partnered with Sepsis Alliance on the It's About TIME campaign Picture source: https://www.sepsis.org/itsabouttime/





Who is at Risk for Sepsis?

Anyone with an infection!

Those at *higher risk* include:

- ☐ People 65 or older or infants less than 1 year old
- ☐ People with chronic illnesses: diabetes, cancer, AIDS
- ☐ People with weakened immune systems
- ☐ People recently hospitalized or recovering from surgery
- ☐ People with wounds, invasive lines, drains, catheters
- ☐ People who have had sepsis in the past





Sepsis Risk and Aging

- Elderly are more susceptible to infections:
 - Weakened immunity
 - Fragile skin, bedsores, ulcerations
 - Multiple chronic conditions
 - Admissions to a hospital or other facility
- Some patients may not be able to communicate symptoms of infection due to dementia or stroke

Source: http://www.todaysgeriatricmedicine.com/archive/MA19p20.shtml

Know the signs and symptoms of sepsis.



Shivering, fever, or very cold



Extreme pain or discomfort



Clammy or sweaty skin



Confusion or disorientation



Short of breath



High heart rate

Sepsis May Present Differently in Older

- Fever may be delayed, absent or low-grade, between 98.6° to 100.4° Fahrenheit
- Decline in functional status may be a symptom of infection, including new or increasing confusion, incontinence, falling, deteriorating mobility, reduced food intake, or failure to cooperate with staff
- Signs of infection and organ dysfunction may be difficult to recognize with multiple comorbidities

Resource: Clifford KM, Dy-Boarman EA, Haase KK, Maxvill K, Pass SE, Alvarez CA. Challenges with Diagnosing and Managing Sepsis in Older Adults. *Expert Rev Anti Infect Ther*. 2016;14(2):231–241. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4804629/

Let's look at some important definitions to help recognize the progression of sepsis.

SIRS

Systemic Inflammatory Response Syndrome (SIRS)

- Temperature over 100.4 or below 96.8
- Fast heart rate over 90 beats per minute
- Breathing over 20 times per minute

Note: SIRS can exist without progressing to Sepsis





Let's look at some important definitions to help recognize the progression of sepsis.

SIRS Sepsis

Sepsis

Two or more SIRS + an infection

- Infections that lead to sepsis most often:
 - Bladder or kidney infection
 - Lungi infection
 - Skin infection
 - Abdominal infection



Let's look at some important definitions to help recognize the progression of sepsis.

SIRS Sepsis Severe Sepsis

Severe Sepsis

Sepsis symptoms

AND

An organ is failing



Let's look at some important definitions to help recognize the progression of sepsis.

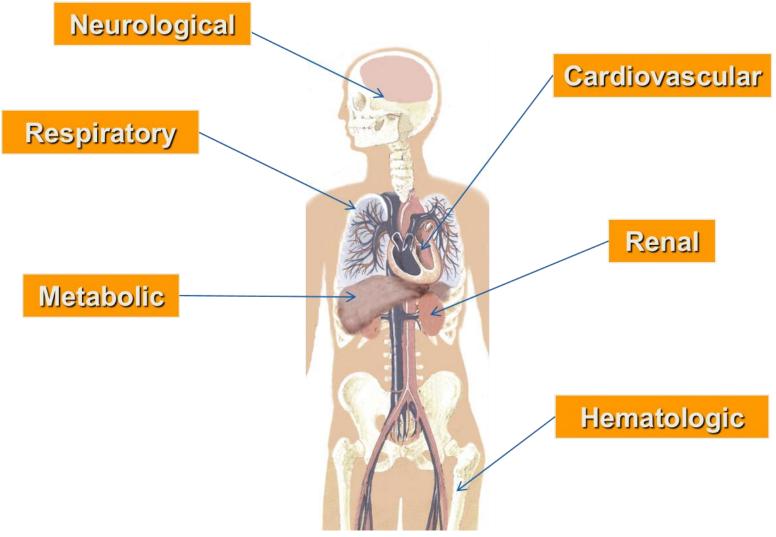
SIRS Sepsis Severe Sepsis Septic Shock

Septic Shock

- Dangerously low blood pressure
- Most severe form of sepsis
- Most difficult to treat



Acute Organ Dysfunction as a Marker of Severe Sepsis

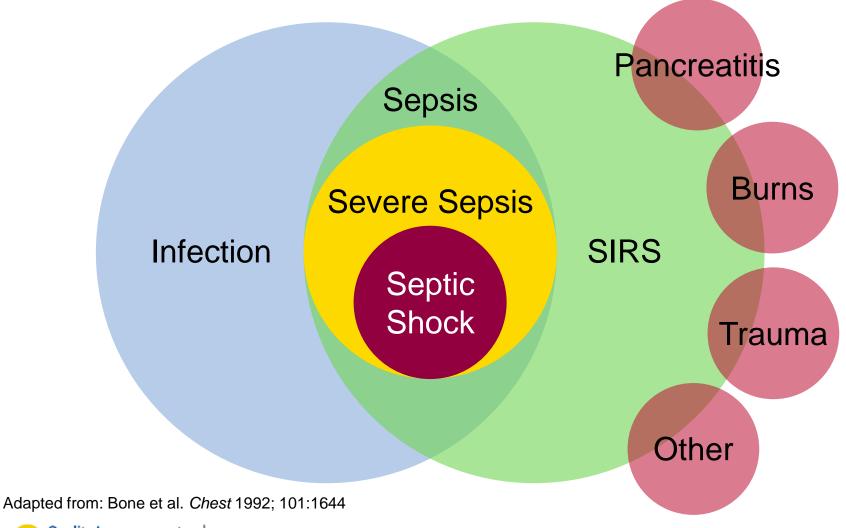


Kathleen M. Vollman RN, MSN, CCNS, FCCM Clinical Nurse Specialist/Educator/Consultant ADVANCING NURSING kvollman@comcast.net Northville, Michigan www.vollman.com. http://slideplayer.com/slide/4002936/ Retrieved 23 February 2016.





Relationship of Infection, SIRS, Sepsis, Severe Sepsis and Septic Shock



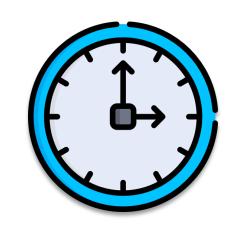




Early Recognition is Important

Every minute counts!

For every hour that treatment is delayed the risk of death increases by 8% ¹



When sepsis is caught early, it:

- Increases the chance for surviving
- Helps avoid long term health-related complications
- Helps avoid sepsis-related hospitalizations
- Can be prevented from progressing to septic shock

1. Crit Care Med,2006; 34: 1589-96.





When Sepsis is Diagnosed

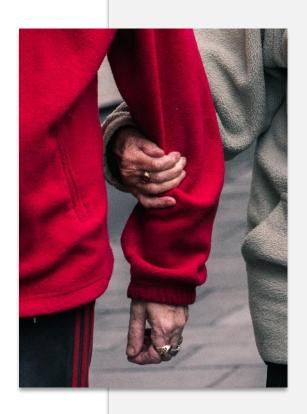


- People with sepsis are usually treated in the hospital
- Doctors will treat the infection with intravenous (IV) antibiotics
- Patients receive IV fluids
- Blood and vital signs are tested



Post Sepsis Syndrome





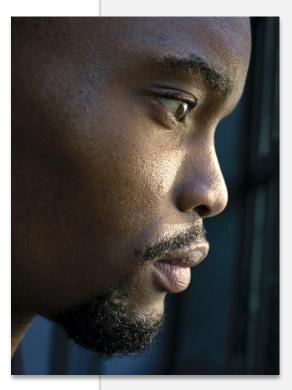
Physical and/or psychological long-term effects, such as:

- Impaired cognitive function-especially among older patients
- Mobility impairments (muscle weakness)
- Disabling muscle and joint pain
- Amputations
- Loss of self-esteem
- Extreme fatigue
- Insomnia
- Nightmares, hallucinations, and panic attacks

Higher risk with an ICU or extended hospital stay

Post Sepsis Syndrome

Significant impact on family, friends, and caregivers



- Increased dependency on caregivers
- Inadequate hospital discharge education on what to expect during recovery
- Difficulty accessing follow-up community treatment
- Disruption to their lives
- Cost



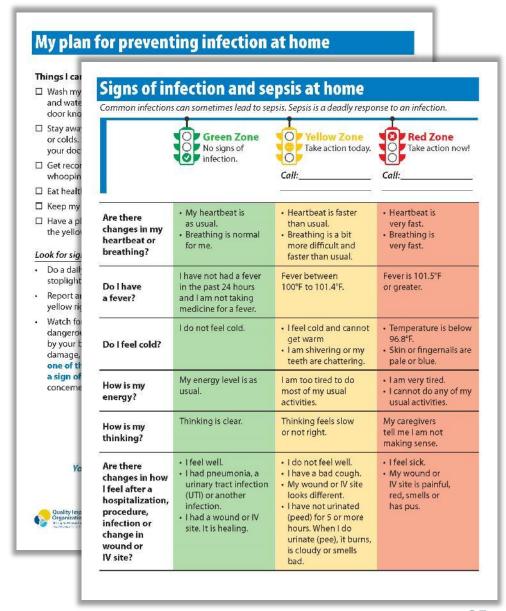


Helping Patients Watch For Signs of Sepsis

Patient information sheet

For patients and family members to watch for the early signs and symptoms of sepsis

Used if a patient is diagnosed with an infection or is at high risk for developing an infection







What Actions Should I take?



- If you are talking with a patient, or their family member or friend, whether on the phone or in person, and you notice or hear about signs and symptoms that may be sepsis, notify the clinician in charge.
- Say the words, "I suspect sepsis".
- Follow protocols for emergency communication.
- Sepsis should always be treated as a medical emergency!



Preventing Sepsis



- Wash hands often
- ☐ Get vaccinated and stay on schedule:
 - **→** Flu
 - Pneumonia
 - All other recommended
- ☐ Prevent infections by keeping cuts clean and covered until healed and look for signs of infection
- ☐ Treat infections promptly
- Take antibiotics as prescribed
- ☐ Maintain good overall health and care for chronic conditions





How You Can Help

- Understand sepsis: Know the early signs of sepsis and who is at high risk for sepsis.
- Know preventive measures to decrease your risk
- Spread the word and educate coworkers, family, friends and loved ones about the signs & symptoms of sepsis
- Seek immediate care if they suspect sepsis and say the words

"I suspect sepsis."





What can you do to increase awareness and educate?



- Bulletin boards, Posters-in the workplace and community
- Slogan contest
- Social Media:
 - share links for videos such as "Sepsis Emergency video"
 - Tilke" a page (eg. Sepsis Alliance, Rory
 Staunton Foundation, Global Sepsis Alliance, etc)
 - Follow on Twitter
- September is Sepsis Awareness Month- find one of many ways to get involved each year
- ANY Month is a good month to be involved and spread the word





Organizations Working to Stop Sepsis

Healthcentric Advisors New England QIN-QIO

Providing education and resources to promote awareness and educate on early identification and treatment of sepsis www.healthcentricadvisors.org

Sepsis Alliance

Largest sepsis advocacy organization in the U.S. working in all 50 states Resources for patients, health professionals, Nursing Station, Sepsis Coordinator Network

www.sepsis.org

Centers for Disease Control (CDC)

Resources for patients, families and health care professionals including clinical information and guidelines www.cdc.gov/sepsis/index.html





Organizations Working to Stop Sepsis

IPRO and **TMF**

We thank the NY and TX QIN-QIOs for sharing their resources:
http://www.stopsepsisnow.org
https://www.tmf.org/Health-Care-Providers/Nursing-Homes/Early-ID-of-Sepsis-in-Texas-Nursing-Homes

Surviving Sepsis Campaign- Society of Critical Care Medicine Clinical guidelines, bundles, performance improvement http://www.survivingsepsis.org/Pages/default.aspx

Rory Staunton Foundation:

Advocacy, education, resources and *Rory's Regulations* for hospitals https://rorystauntonfoundationforsepsis.org/

Global Sepsis Alliance

Not-for-profit charitable organization to raise awareness worldwide https://www.global-sepsis-alliance.org/





Post-training Survey

Please complete the Post-Training Assessment questions in the **BLUE** section of the form.

Thank you!

	Please answer the questions in the blue section <u>AT THE END</u> of the session and hand in			SEPSIS AWARENES TRAINING PRE AND POST ASSESSMENT CLINICAL STAFF				
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My provider setting is:								
Do you know someone who has had sepsis? Yes No								
Are you a Sepsis Survivor? *Yes No "If "Yes", would you be willing to share your story to help increase sepsis awareness? Yes No If you are willing to share your story, please contact: Alyssa DaCunha: 877.904.0057 x3241 adacunha@healthcentricadvisors.org								





Questions





Feedback





For more information

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877.904.0057 x3241

https://healthcentricadvisors.org/sepsis-training

This material was originally created by the Atlantic Quality Innovation Network, the Quality Innovation Network-Quality Improvement Organization for New York, South Carolina and the District of Columbia. It has been updated by the New England QIN-QIO, the Quality Innovation Network-Quality Improvement Organization for New England, under contract with the Centers for Medicare & Medicaid Services (CMS), an agency of the U.S. Department of Health and Human Services.

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