

SEPT. 18–21, 2023 WYNN, LAS VEGAS



2023 VIZIENT CONNECTIONS SUMMIT



Chipping Away to Stop Sepsis





Panelists

Caitlin Vander Neut, MSN, RN, CNRN Senior Business Intelligence Analyst

Soonyip Alec Huang, PharmD Senior Business Intelligence Developer

Stephanie O'Reilly, MSPT, MBA Manager, Enterprise Quality and Safety Data Analytics

Jefferson Health, Philadelphia, Pa.

Kristina Poole, MS, RN¹ Clinical Specialist, Sepsis Coordinator

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Miriam Fischer, MD, FACEP ^{1,2,3} Attending Emergency Medicine Physician, Sepsis Physician Lead Tony Calabria, MA, CPHQ, CSSBB ^{2,3}

Senior Director, Hospital Quality Programs and Clinical Quality

¹ MedStar Washington Hospital Center; ² MedStar Institute for Quality & Safety; ³ Georgetown University School of Medicine



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Learning objectives

- Describe evaluation methods for identifying patients at higher risk of mortality.
- Discuss the use of existing communication technologies to automatically alert care providers to patients identified as possibly septic.
- Discuss clinical practice guidelines to enable advanced practice providers to work at the top of their licensure.







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Call to action

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 Impact of COVID Vizient Cohort Comparison Weekly Quality Forums Temporary Action Group Constant of Council of the right thing & hard to Adjusted BPAs Additional education Beta Pilot Staggered Enterprise roll out over 3- Adjusted BPAs Additional education Pivot from process to outcome measures 	Identify Issue	Executive Sponsorship	Evaluate Human Factors	Phased Roll- Out	Evaluate – Improve
do the wrong month period thing	 Impact of COVID Vizient Cohort Comparison 	 OnPoint Program CQO Alignment Weekly Quality Forums Temporary Action Group 	 Engage HFE experts Improve Systems Make it easy to do the right thing & hard to do the wrong thing 	 Alpha Pilot Few providers and nurses Beta Pilot Staggered Enterprise roll out over 3- month period 	 Adjusted BPAs Additional education Pivot from process to outcome measures



Human Factors Experts

- Decrease cognitive load
- Sepsi the Owl
- Process Changes within EHR
 - BPAs
 - Navigators
 - Checklists
 - Order Sets







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Sepsis Vizient insights



O/E Outcome Measures

• Mortality

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• LOS

Improving Accuracy of the "E"

- Risk variable capture
- Top quartile benchmarks

Icons made by Freepik from FlatIcon





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VIP sepsis mortality (AMC comparison)

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Workflow redesign – Changes and innovations 💳



* High-risk Patients: qSOFA+ and/or lactate >= 4.

Area of Opportunity	Change in Workflow	Innovation
	Primary MD receives sepsis alert	Created a technological pathway to automatically notify primary teams of a sepsis alert
Faster/better identification of high-risk patients (qSOFA: quick Sequential Organ Failure Assessment)	Implement a bedside risk-stratification assessment for all alerting patients: qSOFA – A validated tool for predicting non-ICU patient mortality	A screening assessment for the RN to complete is embedded in the EHR
	A lactate is rapidly completed by the bedside team after a Sepsis/SIRS alert	Wrote, implemented, and educated to the new sepsis response protocol
	Add an alert for a documented +qSOFA screen/lactate ≥4	Created a technological pathway to notify all potential team members of a newly identified high-risk patient
Early antibiotic intervention	Sepsis RN is responsible for executing initial sepsis care	Wrote and implemented a sepsis response protocol identifying clear roles and responsibilities for each key stakeholder
	Empower the sepsis provider to initiate sepsis resuscitation care if they deem appropriate without primary team consultation	The new sepsis response protocol allows all to practice to the top of their license
	Administer antibiotics without waiting for cultures	Defined one attempt for blood culture collection as two sticks and to continue culture collection attempts for 1hr post antibiotic initiation
	First line antibiotics available on nursing units	
	Pharmacy Team involvement in sepsis response, focused on high-risk patients	
	Develop pathway to expedite IV access and antibiotic administration	Developed and implemented an automatic blood culture order for high-risk patients
Higher level of care in targeted patients	Sepsis provider contacts ICU triage for high-risk patients	The new sepsis response protocol includes algorithms for various scenarios
	ICU triage assumes role of searching for ICU bed	Streamlined process for escalating the level of care





VIP sepsis mortality (Pre & post-implementation)



Data Source: Vizient Clinical Data Base, Vitals in Performance Dashboard-Sepsis Mortality Index (2020 AMC Risk Model)





Open dialogue

We invite your questions at the microphones





Lessons learned and key takeaways – Jefferson Health



Lessons learned

- Iterative approach don't let perfect be the enemy of good
- Data starts conversation good discussion leads to new ideas and new data
- Be flexible when something doesn't work, pivot your plan

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Key takeaways

- Defining time-zero shouldn't stop you from getting started
- Work with frontline staff to fit the EHR to the clinical workflow
- High sensitivity upfront, increase specificity overtime



Lessons learned and key takeaways – MedStar Health

Lessons learned



Incorporate a Lean Daily Management System into life cycle of project Understand the governance processes for implementing new policies & technology \star

Plan for sustained education as well as workflow management Key takeaways



Include frontline subject matter experts



Consult with clinical subject matter experts



Encourage innovative [out of the box] thinking Incorporate efficiencies

efficiencies [specifically timesaving] conspicuously into the work



Questions?



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