

# The Progress of the National Sepsis Plan in Saudi Arabia

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GSA Advance

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World Sepsis Day Supporter Meeting



September | World  
13 | Sepsis  
2018 | Day

# Sepsis in Saudi Arabia

## Background



- Globally the estimated prevalence of sepsis is **31.5 million** episodes/year with **5.3 million** deaths annually.
- In 2014 Arabi et al mentioned that despite advances in diagnostic and therapeutic modalities; the number of sepsis cases continues to increase dramatically at a rate of **8-13%** annually.
- Saudi Arabia the estimated prevalence is **128000** episodes/ year with **64.000** sepsis-related deaths annually
- Sepsis Care Improvement Project initiated by the Emergency Department Support Program (EDSP)

(MOH, 2017)



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# Sepsis in Saudi Arabia

## Background



- MOH conducted a retrospective analysis of 341 patients looking at a 8-hospital clusters in respect to sepsis outcomes and treatment compliance.
- The analysis showed a high prevalence of septic shock among all the recorded sepsis cases and **mortality** rate **50%**.
- Compliance with the standard treatment was poor

(MOH, 2017)



وزارة الصحة  
Ministry of Health



SAUDI PATIENT  
SAFETY CENTER



الجمعية السعودية لطب العناية المركزة  
SAUDI CRITICAL CARE SOCIETY



SASEM

الجمعية السعودية لطب الطوارئ  
Saudi Society of Emergency Medicine



Global  
Sepsis  
Alliance



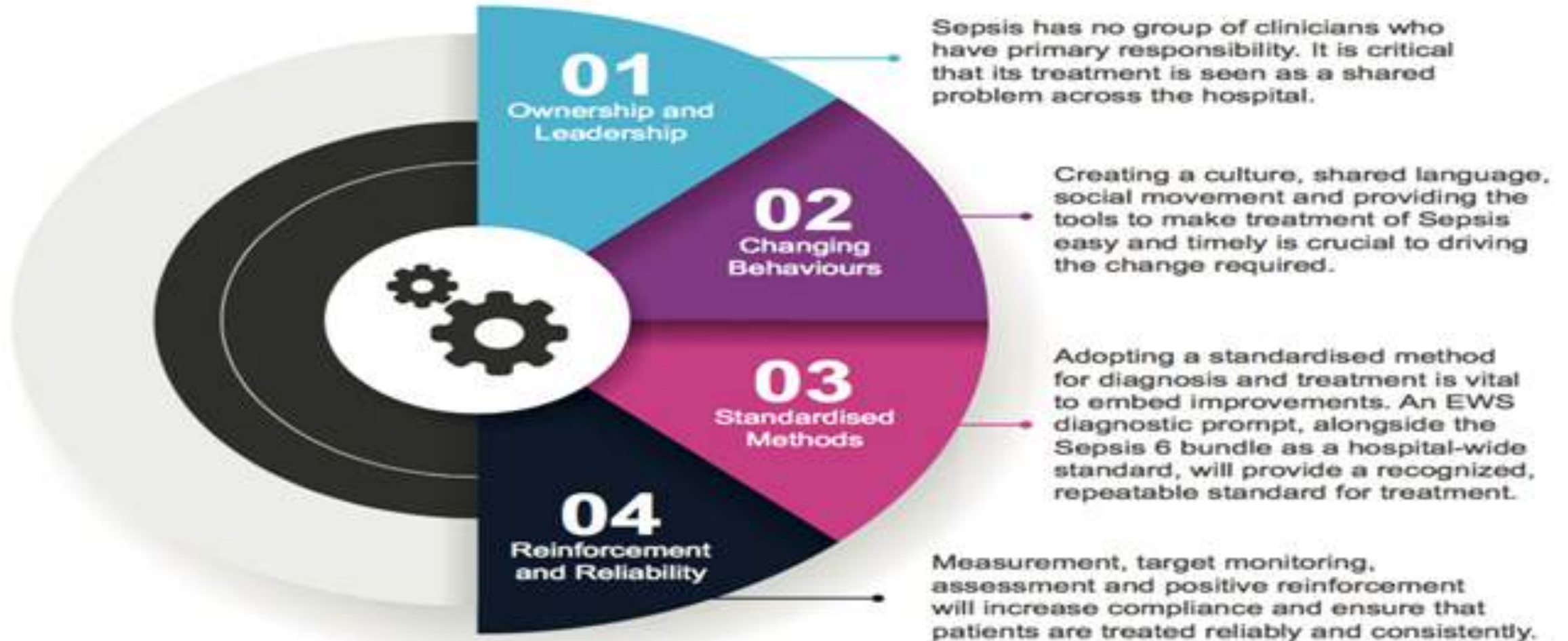
THE UK  
SEPSIS  
TRUST



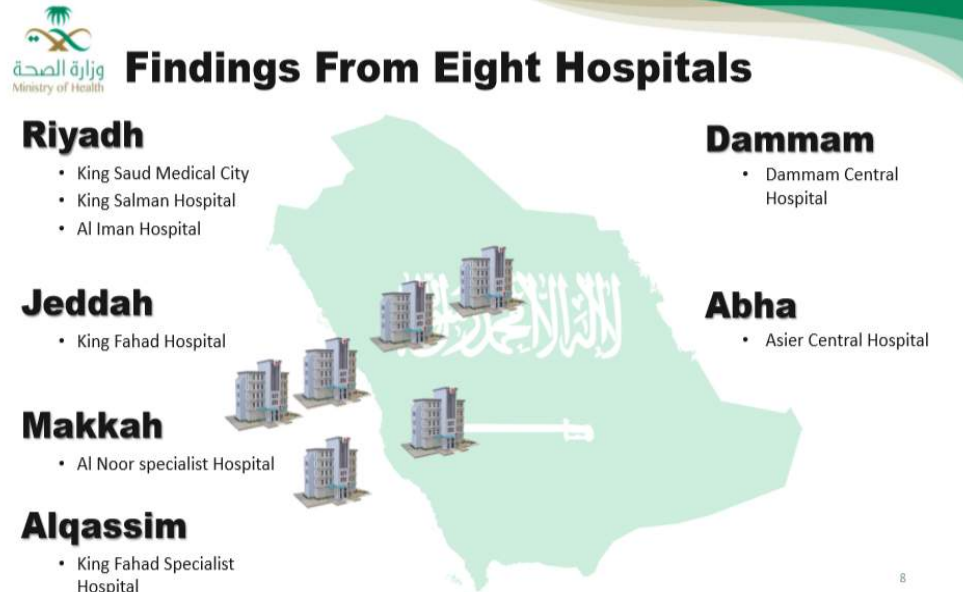
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# To address the Sepsis challenge within Saudi Arabia



# Sepsis Care Improvement Project



وزارة الصحة  
Ministry of Health

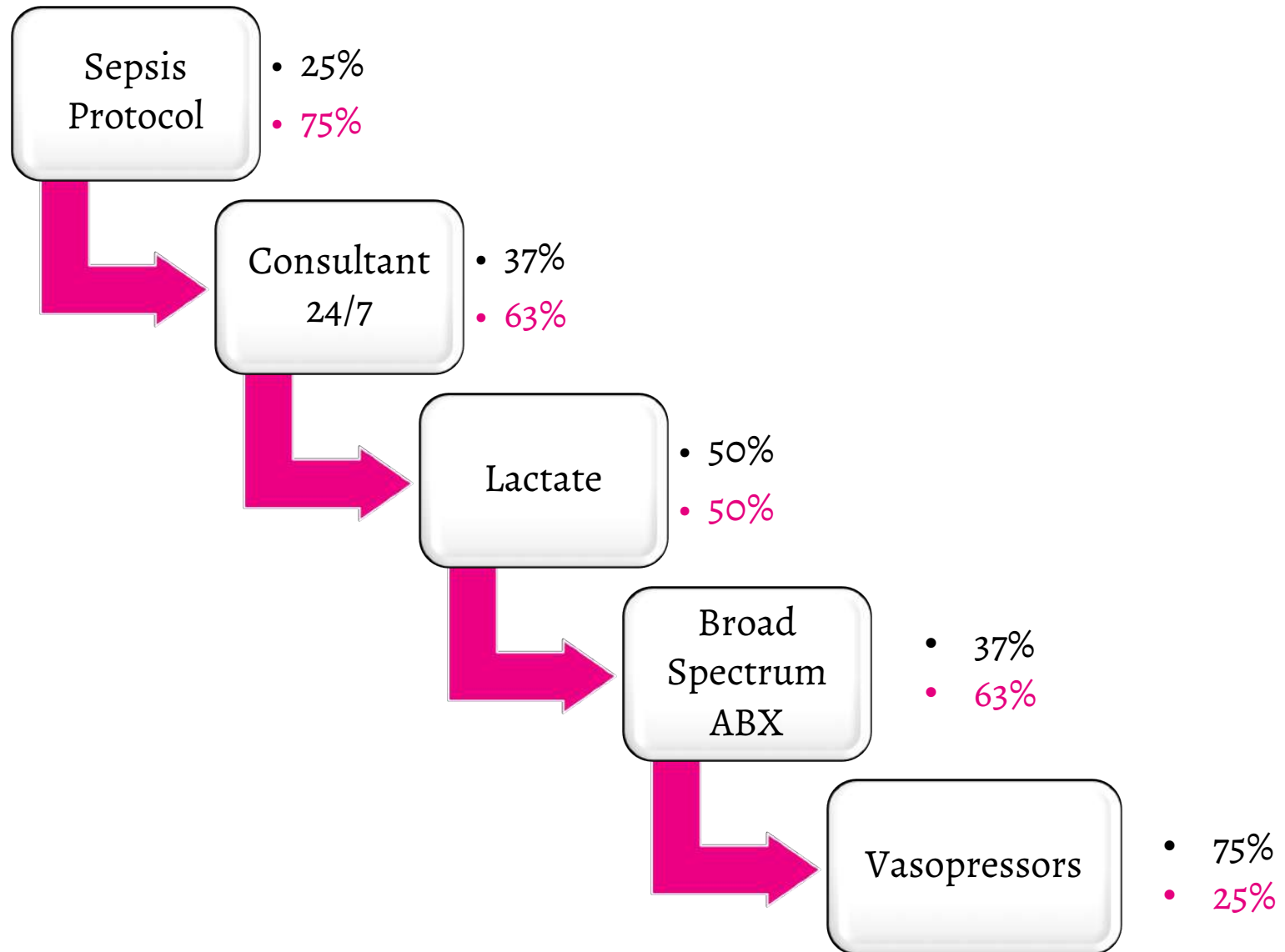
Ministry Of Health  
Emergency Department  
Support Program

**Sepsis Resources Screening**

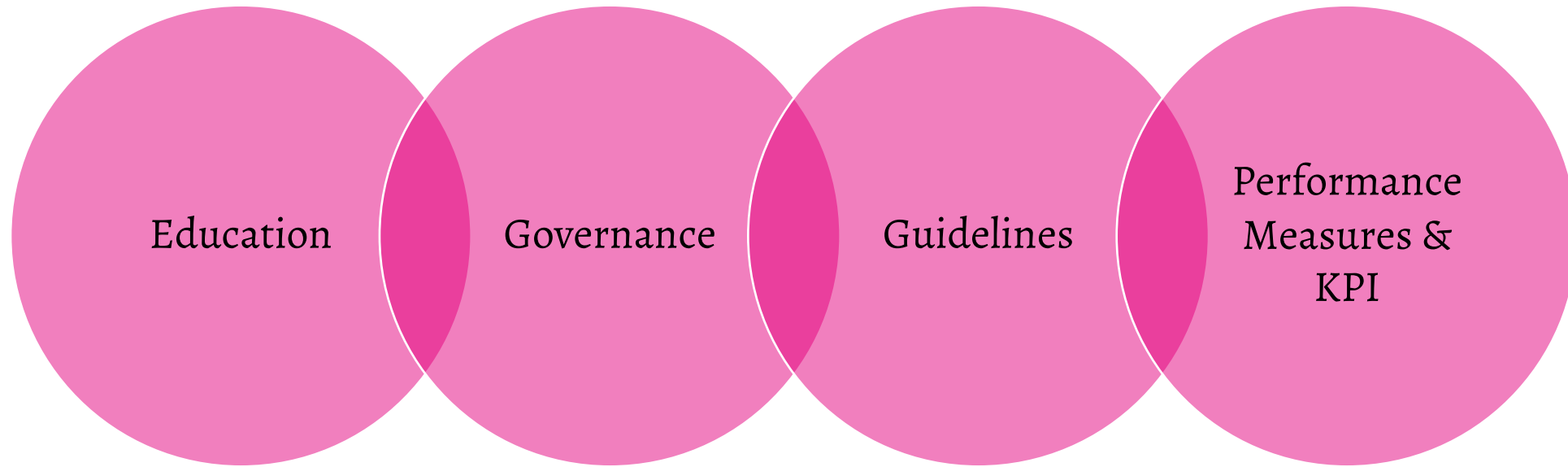
Hospital:

N	Items		Remarks
1	Is ED consultant available 24 hrs. 7 days a week?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Is Lactate test available in Emergency Department?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	a) Is Lactate test available in hospital lab?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, is it available <input type="checkbox"/> 24h /7d OR <input type="checkbox"/> day time	
	Lactate test is available in ED as a point of care?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Can blood culture be obtained in Emergency Department?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Broad spectrum antibiotics is available in Emergency Department floor stock?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, which antibiotic you have? 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____	
6	CVP reading available in Emergency Department?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	Nurses are trained to measure CVP line.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Vasopressors is available in Emergency Department?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	Nurses trained to prepare and infuse vasopressors in Emergency Department?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	Sepsis protocol is available in Emergency Department?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

# ED Sepsis Recourses Screening



# Recommendations and Action Plan





# Achievements

## GSA Sepsis Award Category 1



# Future Plan 2018/2019



- Expansion
- Sustainability
- Include sepsis standards for hospital accreditation by the Saudi Central Board for Accreditation of Health care Institutions



## CBAHI

المركز السعودي لاعتماد المنشآت الصحية  
Saudi Central Board for Accreditation  
of Healthcare Institutions

# Saudi Critical Care (SCCS)



- 2017 SCCS membership with GSA
- Sepsis Education and Awareness Project 7 Hospitals
- 2018 endorsement of the 2<sup>nd</sup> WSC to 1000 SCCS network members
- Share Sepsis Quality Survey to member network





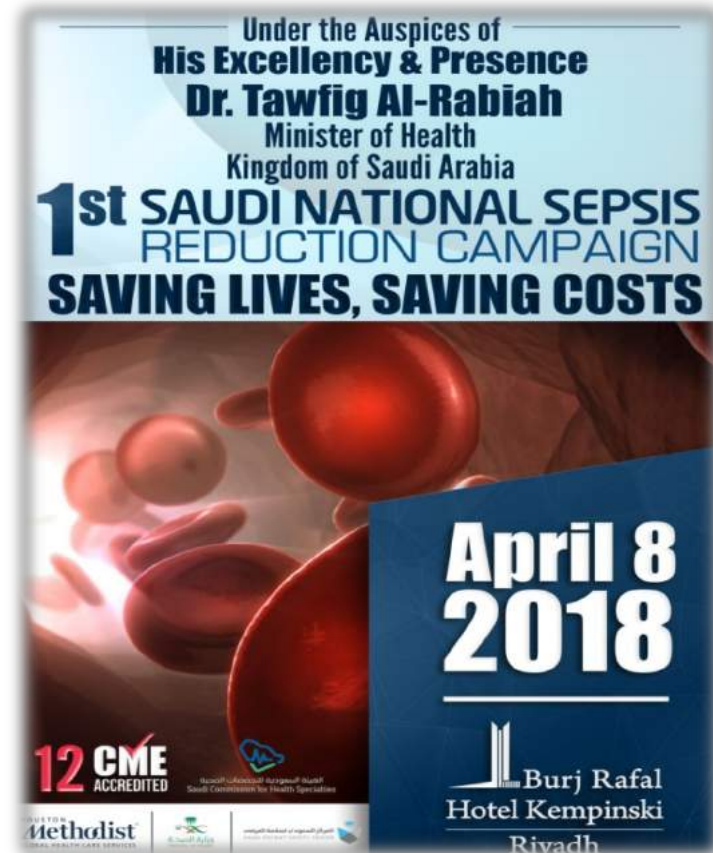
# Saudi Patient Safety Center (SPSC)



المركز السعودي لسلامة المرضى  
SAUDI PATIENT SAFETY CENTER



- **April 2018:** 1<sup>st</sup> Sepsis Reduction Campaign (keynote lectures, and Expert panel discussion)
- Partnership with MOH-SCIP
- **Sep 2018:** 2<sup>nd</sup> WSC endorsement to all Hospitals Network in KSA



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# King Abdulaziz Medical City-MNGHA Adult Critical Care



Improving the care of sepsis

Sepsis Team

Sepsis Research



Mortality  
Reduction

50% ↓ 17%

# King Abdullah Specialized Children Hospital- MNGHA



## RED ALERT SEPSIS

- 2015 Quality Improvement project in ED & PICU
- 2018 Sepsis Early Recognition and Management (ED, PICU, PHDU, Ward 54/General Pediatric)



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**A World Free of Sepsis!**

[www.global-sepsis-alliance.org](http://www.global-sepsis-alliance.org)

[www.world-sepsis-day.org](http://www.world-sepsis-day.org)

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