



Sepsis Advisor

- ✓ Provider selects a patient from the patient list and opens the chart. This displays the sepsis advisor if the patient has met all the criteria required to be included in this group. The required criteria are shown in the screenshot below.

Patient's Current Condition

4 Current State

This patient shows signs of: SIRS [Sepsis Severity Definitions](#) **Last Alert: --**

Allergies

All Encounters

No Known Medication Allergies

Microbiology

Last 6 Results

Culture Source/Body Site

No results found

Suspected Infection Source

Select up to two (2) suspected infection sources

Patient displays no signs of infection

Bone Infection /Osteomyelitis

C.diff- lab confirmed

Meningitis

Systemic Inflammatory Response Syndrome (SIRS) Criteria:
Clinical events are used to evaluate a patient. Events include: temperature, heart rate, respiratory rate, glucose, white blood count, and bands. Two out of five SIRS criteria have been met and one end organ dysfunction to diagnose SIRS.

Sepsis Criteria: Clinical events are used to evaluate a patient for end organ dysfunction. Events include Systemic Inflammatory Response Syndrome (SIRS) criteria and a documented source of Infection to diagnose Sepsis.

Severe Sepsis Criteria: Clinical events are used to evaluate a patient for end organ dysfunction. Events include: total bilirubin, creatinine increase, lactic acid level, mean arterial pressure, and systolic blood pressure. ≥ 3 (SIRS) criteria have been met.

Septic Shock Criteria: Clinical events are used to evaluate a patient for end organ dysfunction. Events include: total bilirubin, creatinine increase, lactic acid level, mean arterial pressure, and systolic blood pressure ≤ 90 mm hg or MAP ≤ 65 for adult patient.

Antibiotics

Last 90 Days

Antibiotic	Order Type	Order Details	Last Dose	Duration
No results found				

Vital Signs

Last 96 Hours

Status	Latest	Previous	Previous
Temp	--	--	--
BP	--	--	--
MAP	--	--	--
HR	--	--	--
RR	--	--	--

Map less than or equal to 65 or SBP less than or equal to 90

Skin/Soft Tissue Infection*

Urinary Source*



- ✓ The box below shows a brief, current patient summary including allergies, relevant results (last 24 hours), current antibiotics (last 90 days), microbiology (last 6 results) and vital signs (last 96 hours).

Discern: ZZTEST, TESTFLINTONE (1 of 1)



Interdisciplinary Sepsis Advisor

Patient Name **ZZTEST, TESTFLINTONE**

Discern Advisor® Sepsis Advisor * Selection Required This page is not a complete source of visit information.

Patient's Current Condition | Select Recommendations | Document and Sign

Patient's Current Condition

4 Current State

This patient shows signs of: **SIRS** [Sepsis Severity Definitions](#) **Last Alert: --**

Allergies		Relevant Results		Antibiotics											
All Encounters		Last 24 hours		Last 90 Days											
No Known Medication Allergies		No results found		No results found											
				<table border="1"> <thead> <tr> <th>Antibiotic</th> <th>Order Type</th> <th>Order Details</th> <th>Last Dose</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td colspan="5">No results found</td> </tr> </tbody> </table>		Antibiotic	Order Type	Order Details	Last Dose	Duration	No results found				
Antibiotic	Order Type	Order Details	Last Dose	Duration											
No results found															

Microbiology						Vital Signs																																	
Last 6 Results						Last 96 Hours																																	
No results found						<table border="1"> <thead> <tr> <th></th> <th>Latest</th> <th>Previous</th> <th>Previous</th> <th>Previous</th> </tr> </thead> <tbody> <tr> <td>Temp</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>BP</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>MAP</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>HR</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>RR</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>					Latest	Previous	Previous	Previous	Temp	--	--	--	--	BP	--	--	--	--	MAP	--	--	--	--	HR	--	--	--	--	RR	--	--	--	--
	Latest	Previous	Previous	Previous																																			
Temp	--	--	--	--																																			
BP	--	--	--	--																																			
MAP	--	--	--	--																																			
HR	--	--	--	--																																			
RR	--	--	--	--																																			

Map less than or equal to 65 or SBP less than or equal to 90

4 Suspected Infection Sources

Select up to two (2) suspected sources

Patient displays no signs or symptoms of infection.

Bone Infection /Osteomyelitis* Joint Infection/Septic Arthritis. Skin/Soft Tissue Infection*

- ✓ Select a "Suspected infection Source(s) as clinically deemed. A maximum of two infection sources can be selected. Pneumonia is selected.

4 Suspected Infection Sources

Select up to two (2) suspected sources

Patient displays no signs or symptoms of infection.

Bone Infection /Osteomyelitis* Joint Infection/Septic Arthritis. Skin/Soft Tissue Infection*

C.diff- lab confirmed Meningitis Urinary Source*

Endocarditis* Neutropenia,Febrile Wound Infection*

Intravascular Catheter Infection Pneumonia* Source Other or Unclear (Not Neutropenic)

Intra-Abdominal Source*



- ✓ After the infection source has been selected, it opens the next dialogue box where it is required to select only one infection factor. In this case, select “Hospital Acquired”. Then click on “Select Recommendations” to continue.

Suspected Infection Factors

Pneumonia

<input type="checkbox"/> Aspiration	<input type="checkbox"/> Community Acquired – ICU with MDRO Risk	<input type="checkbox"/> Community Acquired - Non ICU
<input type="checkbox"/> Community Acquired – ICU No MDRO Risk	<input type="checkbox"/> Community Acquired - MRSA	<input checked="" type="checkbox"/> Hospital Acquired

Advisor Recommendations:

There are three (3) subsections within the selected recommendation.

1. Currently Active Relevant Medications

Select Recommendations

4 Currently Active Relevant Medications

Medication Orders

No results found.

A broad spectrum antibiotic was initiated for a suspected infection other than severe sepsis and continued until the time of presentation with severe sepsis.

A check mark can be placed if an antibiotic had been commenced before the patient become septic.

2. Special Dosing Recommendations

4 Special Dosing Recommendations

Renal Function

Creatinine Clearance: -- The weight being used in the advisor is a Measured weight: 68.3 kg

Estimated Creatinine Clearance: --

Standard Regimen (Pharmacy to Adjust based on Renal Function)

Renally adjust dose using (CrCl):

Single Dose (Emergency Department)

Dialysis Patient:

This is a required field to complete. This give Providers the opportunity to acknowledge the patients renal function before selecting antibiotic recommendations.

IMPORTANT! Antibiotic recommendations will not display if no estimated Creatinine clearance is selected.



3. Antibiotic Recommendations

4 Antibiotic Recommendations

Pneumonia - Hospital Acquired

Preferred Regimen.

Maxipime 2 g, IV Piggyback, Injection, Q8H

Zosyn 4.5 g, IV Piggyback, Injection, Q8H

If Severe Beta-Lactam Allergy.

Azactam 2 g, IV Piggyback, Injection, Q8H

Vancomycin - Pharmacy to Dose 1 EA, Misc, Misc, Unscheduled, PRN other (see comment)

If at high risk for Pseudomonas aeruginosa, add Tobramycin.

tobramycin 7 mg/kg, IV Piggyback, Injection, Once, Pneumonia, Empiric Treatment

If Severe Beta-Lactam Allergy and Aspiration risk, ADD to the above.

Cleocin Phosphate 900 mg, IV Piggyback, Injection, Q8H

If MRSA Risk, add either Vancomycin or Linezolid(Zyvox) to the regimen selected above.

Vancomycin - Pharmacy to Dose 1 EA, Misc, Misc, Unscheduled, PRN other (see comment)

Zyvox 600 mg, IV Piggyback, Injection, Q12H

4 Fluid Therapy will be addressed within ordersets below

The above screenshot is displayed when the estimated creatinine clearance is selected. This is the antibiotic recommendation that is suggested by the advisor tool to be ordered. These orders/recommendations have been separated by categories. In this case, we selected Maxipime which is under the “Preferred Regimen” category.

Fluid recommendations:

The advisor tool is also equipped with fluid recommendations which follows the antibiotic recommendations. Sodium chloride 0.9% bolus is selected.

4 Fluid Therapy will be addressed within ordersets below

Fluid Bolus. - Per Surviving Sepsis Guidelines, infuse 30 mL/kg bolus within 3 hours of presentation of Septic Shock. MAY DOSE ON IBW IF BMI > 30.

Sodium Chloride 0.9% Bolus 30 mL/kg, IV Bolus, Once, Infuse Over 1 hr, First Dose: T:N

Lactated Ringers Bolus 30 mL/kg, IV Bolus, Injection, Once, Infuse Over 1 hr

Sodium Chloride 0.9% Bolus 30 mL/kg, IV Bolus, Once, Infuse Over 1 hr, First Dose: T:N, Dosing based on IBW due to patient BMI over 30.

Lactated Ringers Bolus 30 mL/kg, IV Bolus, Injection, Once, Infuse Over 1 hr, Dosing based on IBW due to patient BMI over 30.

Maintenance Infusion. - Minimum 130mL/hr or sufficient documentation for outliers per CMS requirements

Sodium Chloride 0.9% 1,000 mL IV Infusion 130 mL/hr

Lactated Ringers Injection 1,000 mL IV Infusion 130 mL/hr



Diagnostic Studies:

4 Diagnostic Studies will be addressed in the ordersets below

Emergent Lab Bundle and Oxygen.		Documented		Documented
<input type="checkbox"/> CBC w Diff (M) Blood, STAT, T,N			<input type="checkbox"/> Phosphorus Level (M) Blood, STAT, T,N	
<input type="checkbox"/> Comprehensive Metabolic Panel (M) Blood, STAT, T,N			<input type="checkbox"/> Mg Level (M) Blood, STAT, T,N	
<input type="checkbox"/> Lactic Acid Venous (M) Blood, STAT, T,N				
<input type="checkbox"/> Urinalysis with Culture if indicated (M) STAT, T,N, Once				
<input type="checkbox"/> Blood Culture (M) Blood, Stat collect, ST - Stat, T,N				
<input type="checkbox"/> Blood Culture (M) Blood, Stat collect, ST - Stat, T,N+15				
<input type="checkbox"/> Blood Glucose Monitoring POC T,N				
<input type="checkbox"/> Oxygen Therapy SpO2 goal 94% or greater				
<input type="checkbox"/> PT (with INR) (M) Blood, STAT, T,N				
General Lab.		Documented		Documented
<input checked="" type="checkbox"/> Basic Metabolic Panel (M) Blood, STAT, T,N			<input type="checkbox"/> Lactic Acid Venous (M) Blood, STAT, T,N	
<input type="checkbox"/> Blood Culture (M) Blood, Stat collect, ST - Stat, T,N			<input type="checkbox"/> Mg Level (M) Blood, STAT, T,N	
<input type="checkbox"/> Blood Glucose Monitoring POC T,N			<input type="checkbox"/> Procalcitonin (M) Blood, STAT, T,N	
<input type="checkbox"/> Brain Natriuretic Peptide (M) Blood, STAT, T,N			<input type="checkbox"/> Phosphorus Level (M) Blood, STAT, T,N	
<input type="checkbox"/> CBC w Diff (M) Blood, STAT, T,N			<input type="checkbox"/> PT (with INR) (M) Blood, STAT, T,N	
<input type="checkbox"/> Comprehensive Metabolic Panel (M) Blood, STAT, T,N			<input type="checkbox"/> Sedimentation Rate (M) Blood, STAT, T,N	
<input type="checkbox"/> CRP (M) Blood, STAT, T,N			<input type="checkbox"/> Troponin I (M) Blood, STAT, T,N	
<input type="checkbox"/> HCG Beta Quantitative Serum (M) Blood, STAT, T,N			<input type="checkbox"/> Urine Culture (M) Stat collect, ST - Stat, T,N, Once	
<input type="checkbox"/> HCG Qualitative Urine (M) Urine, STAT, T,N			<input type="checkbox"/> Urinalysis Microscopic (M) Urine, STAT, T,N	
Diagnostic Studies.		Documented		Documented
<input type="checkbox"/> XR Chest 1 View Frontal T,N, Stat			<input type="checkbox"/> Electrocardiogram 12 Lead T,N, Stat	
<input type="checkbox"/> XR Chest 2 Views T,N, Stat				
Respiratory.		Documented		Documented
<input type="checkbox"/> Arterial Blood Gas (M) STAT, T,N			<input type="checkbox"/> Oxygen Therapy SpO2 goal 94% or greater	

Confirm

This can be selected as the provider deems fit for an encounter. We selected a Basic Metabolic Panel for this encounter. Multiple Labs and other radiology and diagnostic studies may be selected.

Click "Confirm" button to proceed.



Document and Sign

Document

- ✓ Suspected Infection Source of Pneumonia
- ✓ Add Sepsis to the diagnosis list

Currently Active Relevant Medications

No new orders.

Antibiotic Recommendations

- ✓ Maxipime 2 g, IV Piggyback, Injection, Q8H

Fluid Therapy will be addressed within ordersets below

- ✓ Sodium Chloride 0.9% Bolus 30 mL/kg, IV Bolus, Once, Infuse Over 1 hr, First Dose: T;N

Diagnostic Studies will be addressed in the ordersets below

- ✓ Basic Metabolic Panel (M) Blood, STAT, T;N

Add Sepsis to the diagnosis list

Sign Orders

Reset Exit

This gives an overview of the items that have been selected by the provider.

You can also add Sepsis as a diagnosis by checking the box “Add Sepsis to the diagnosis list” then click on “Sign Orders”.

This directs you to the order profile page to review your orders and complete pending order details as required.

+ Add | Document Medication by Hx | Reconciliation | Check Interactions | External Rx History | No Check

Reconciliation Status: Meds History | Admission | Discharge

Orders Medication List

Orders for Signature

Order Name	Status	Start	Details
FLT 105 Med Sug; 1011; 1 Fin#:70000000884148 Admit: 9/17/2019 09:19 EDT			
Medications			
cefepime (Maxipime) Order	Order	9/25/2019 00:32 EDT	2 g, IV Piggyback, Injection, Q8H, Order Duration: 7 days, First ...
Sodium Chloride 0.9% (Sodium Chloride 0.9...)	Order	9/25/2019 00:32 EDT	2,049 mL, IV Bolus, Once, Infuse Over 1 hr, First Dose: 09/25/19... Target Dose: Sodium Chloride 0.9% Bolus 30 mL/kg 09/25/19 ...
Laboratory			
Basic Metabolic Panel...	Order	9/25/2019 00:32 EDT	Blood, STAT, 09/25/19 00:32 EDT, Once, Physician Stop, MLAB

Details for cefepime (Maxipime)

2 Missing Required Details | Dx Table | Orders For Cosignature | **Sign**

Order details are completed. Click on the “sign” button.



+ Add | Document Medication by Hx | Reconciliation | Check Interactions | External Rx History | No Check |

 Reconciliation Status
 Meds History | Admission | Discharge

Orders | Medication List

Orders for Signature

Order Name	Status	Start	Details
FLT 10S Med Sug; 1011; 1 Fin#:70000000884148 Admit: 9/17/2019 09:19 EDT			
Medications			
<input checked="" type="checkbox"/> cefepime (Maxipime)	Order	9/25/2019 00:32 EDT	2 g, IV Piggyback, Injection, Q8H, Sepsis, Prophylaxis, Order D...
<input checked="" type="checkbox"/> Sodium Chloride 0.9% (Sodium Chloride 0.9%)	Order	9/25/2019 00:32 EDT	2,049 mL, IV Bolus, Once, Infuse Over 1 hr, First Dose: 09/25/19... Target Dose: Sodium Chloride 0.9% Bolus 30 mL/kg 09/25/19 ...
Laboratory			
<input checked="" type="checkbox"/> Basic Metabolic Panel...	Order	9/25/2019 00:32 EDT	Blood, STAT, 09/25/19 00:32 EDT, Once, Physician Stop, MLAB

Details for cefepime (Maxipime)

0 Missing Required Details | Dx Table | Orders For Cosignature | Sign

The selected and signed recommendations show up in the ordered state.

Medications			
<input checked="" type="checkbox"/>	cefepime (Maxipime)	Ordered	2 g, IV Piggyback, Injection, Q8H, Sepsis, Prophylaxis, Order Duration: 7 days, First Dose: 09/25/19 0:32:00 EDT, Stop Date: ...
<input checked="" type="checkbox"/>	Sodium Chloride 0.9% (Sodium Chloride 0.9% Bolus)	Ordered	2,049 mL, IV Bolus, Injection, Once, Infuse Over 1 hr, First Dose: 09/25/19 0:32:00 EDT, Stop Date: 09/25/19 0:32:00 EDT, ST... Target Dose: Sodium Chloride 0.9% Bolus 30 mL/kg 09/25/19 00:32:13
Laboratory			
<input checked="" type="checkbox"/>	Basic Metabolic Panel (M)	Ordered	Blood, STAT, 09/25/19 0:32:00 EDT, Once, Physician Stop, MLAB

This fulfills the requirement to complete the Sepsis Advisor recommendations.