

Admin DashboardOutput.pdf127.0.0.1:5000

Sepsis Detection SystemHomeIntroductionSymptomsCausesTreatmentPrecautionsGallerylogin

Symptoms Of Sepsis

General Sepsis Symptoms

Sepsis is a life-threatening condition that results from the body's uncontrolled response to infection, leading to inflammation and organ dysfunction. Timely medical attention is crucial for managing sepsis and increasing the chances of recovery.

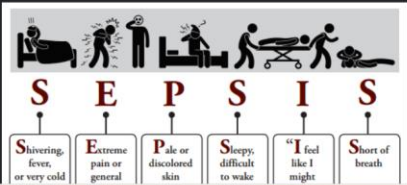
- A fever above 101°F (38°C) or a temperature below 96.8°F (36°C)
- Heart rate higher than 90 beats per minute
- Breathing rate higher than 20 breaths per minute
- Probable or confirmed infection

[Read More](#)

Severe sepsis Symptoms

- Patches of discolored skin
- Decreased urination
- Changes in mental ability
- Low platelet (blood clotting cells) count
- Problems breathing
- Abnormal heart functions
- Chills due to fall in body temperature
- Unconsciousness and Extreme weakness

[Read More](#)



Hot weather NowENG US03:04 PM22-05-2024


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Sepsis Detection System (100) is also needed.HomeIntroductionSymptomsCausesTreatmentPrecautionsGallerylogin

Precautions to Sepsis

Precaution

- Get vaccinated-** Since sepsis cases can stem from the [flu](#) and [pneumonia](#), it is important for those at risk to get [vaccinated](#). According to a CDC study, 35% of sepsis cases were a result of pneumonia. But, only 20% of those at risk ages 65 and under were vaccinated against the infection while 60% of those 65 and older got their pneumonia vaccine. In order to lessen the risk, a pneumonia vaccine as well as a flu shot is recommended.
- Clean skin wounds promptly-** Practising good hygiene. This means practising proper wound care, hand-washing, sanitation and bathing regularly. Cleaning skin wounds, especially of those who are diabetic, can help to reduce the risk of sepsis.
- Treat urinary tract infections promptly-** The CDC found that a quarter of sepsis cases resulted from a urinary tract infection. Treating these in a timely manner can reduce the risk of the infection spreading.
- Other preventive measures can be:**
 - Access to quality care during pregnancy and birth
 - Responsible and timely access to the right medicines
 - Proper infection prevention and control in hospitals and clinics.



Gallery

Hot weather NowENG US03:05 PM22-05-2024

Admin Dashboard

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Sepsis Detection System

Home

Sepsis Detection

SOFA Score

Overview

Purpose determine rate of organ failure

The sequential organ failure assessment score (SOFA score), previously known as the sepsis-related organ failure assessment score, is used to track a person's status during the stay in an intensive care unit (ICU) to determine the extent of a person's organ function or rate of failure. The score is based on six different scores, one each for the respiratory, cardiovascular, hepatic, coagulation, renal and neurological systems.

he score tables below only describe points-giving conditions. In cases where the physiological parameters do not match any row, zero points are given. In cases where the physiological parameters match more than one row, the row with most points is picked.

The quick SOFA score (qSOFA) assists health care providers in estimating the risk of morbidity and mortality due to sepsis.

Medical Use

The SOFA scoring system is useful in predicting the clinical outcomes of critically ill patients. According to an observational study at an Intensive Care Unit (ICU) in Belgium, the mortality rate is at least 50% when the score is increased, regardless of initial score, in the first 96 hours of admission, 27% to 35% if the score remains unchanged, and less than 27% if the score is reduced.

qSOFA has also been found to be poorly sensitive though decently specific for the risk of death with SIRS possibly better for screening.

Lets Start

35°C Sunny

Search

ENG US

03:07 PM 22-05-2024

Admin Dashboard

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127.0.0.1:5000/page2

Sepsis Detection System

Home

Sepsis Detection

Patient details

1234

Shweta

Maharanawar

21

Back

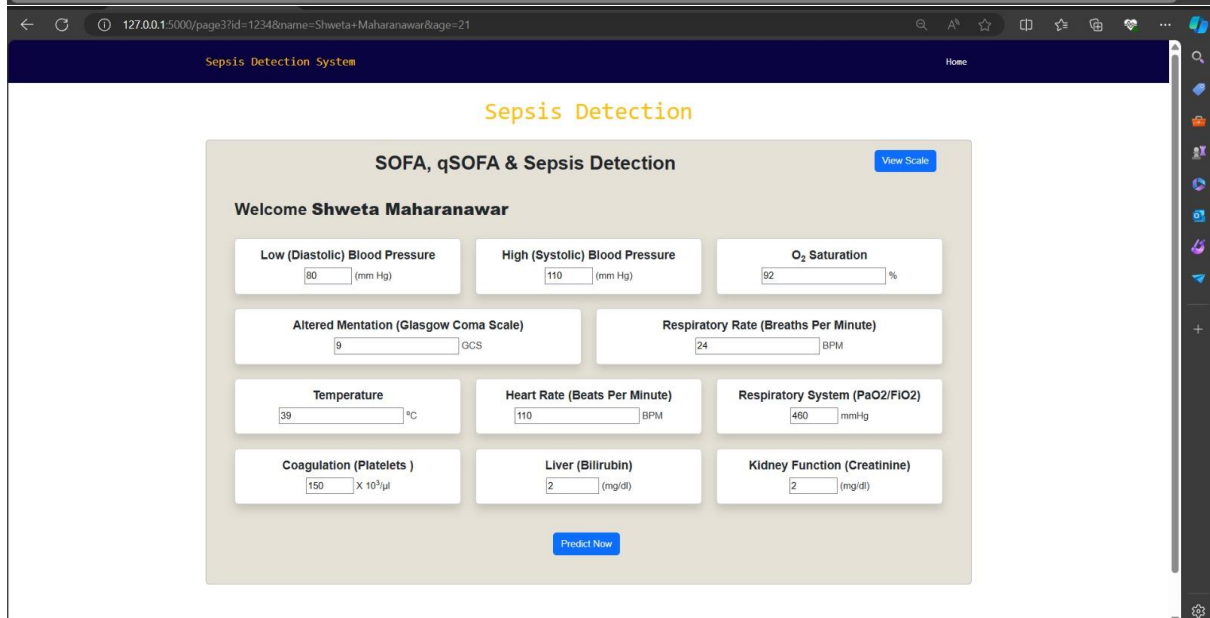
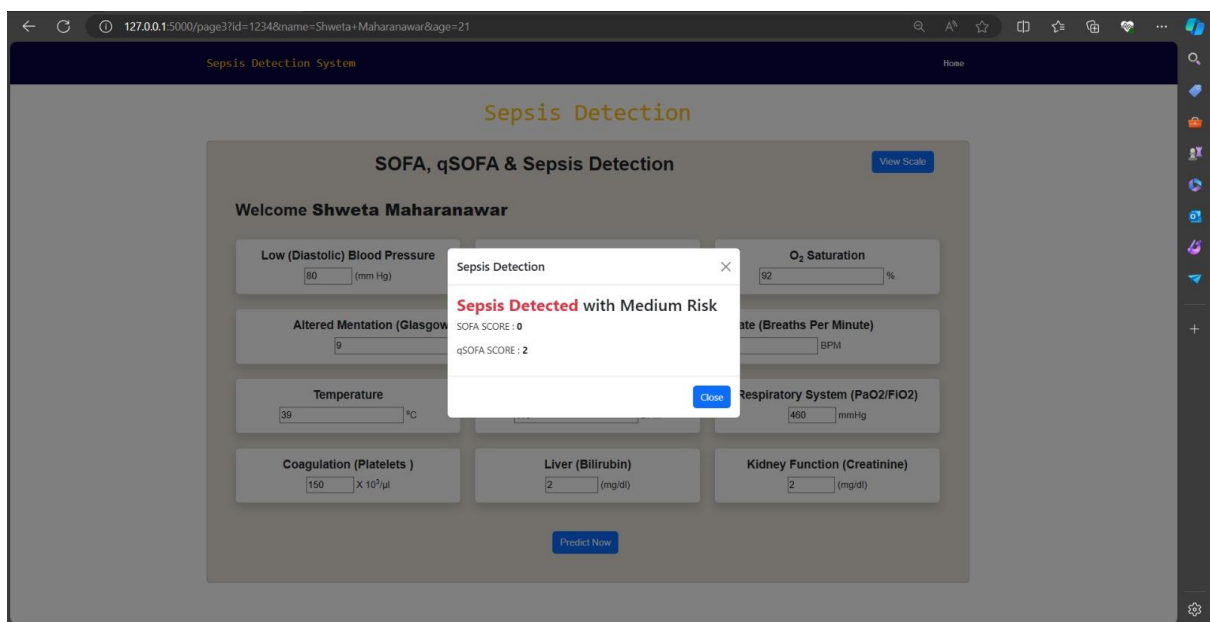
Start Prediction

35°C Sunny

Search

ENG US

03:08 PM 22-05-2024



Admin Login

Password

Sign in

Admin Dashboard

SNo	Name	NHI number	Age	qSOFA Score	SOFA Score	Risk Level	Result
1	dd ss	1234	23	0	0	None	Sepsis Not Detected
2	dd ss	1234	23	0	0	None	Sepsis Not Detected
3	dd ss	1234	23	0	0	None	Sepsis Not Detected
4	dd ss	1234	23	0	0	None	Sepsis Not Detected
5	dd ss	1234	23	0	0	None	Sepsis Not Detected
6	dd ss	1234	23	0	0	None	Sepsis Not Detected
7	dd ss	1234	23	1	0	None	Sepsis Detected
8	dd ss	1234	23	1	0	Low Risk	Sepsis Detected
9	dd ss	1234	23	0	0	None	Sepsis Not Detected
10	dd ss	1234	23	0	0	None	Sepsis Not Detected
11	dd ss	1234	23	0	0	None	Sepsis Not Detected
12	dd ss	1234	23	0	0	None	Sepsis Not Detected
13	dd ss	1234	23	1	0	Low Risk	Sepsis Detected
14	dd ss	1234	23	0	0	None	Sepsis Not Detected
15	dd ss	1234	23	0	0	None	Sepsis Not Detected
16	dd ss	1234	23	0	0	None	Sepsis Not Detected
17	dd ss	1234	23	1	0	Low Risk	Sepsis Detected
18	dd ss	1234	23	0	0	None	Sepsis Not Detected


```
(sepsis) C:\Users\ADMIN\Desktop\FinalYear_Project_BEIT_16>cd sepsis

(sepsis) C:\Users\ADMIN\Desktop\FinalYear_Project_BEIT_16\sepsis>flask --app app run --debug
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 388-866-406
127.0.0.1 - - [22/May/2024 08:50:47] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/styles.css HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/sepsis.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/baby.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/sepsis-symptoms.png HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/handwash.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/gallery/g1.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/gallery/g2.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/gallery/g3.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/gallery/g4.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/gallery/g5.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /img/team.jpg HTTP/1.1" 404 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/gallery/g6.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /static/img/bg.jpg HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:47] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [22/May/2024 08:50:56] "GET /page1 HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:56] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [22/May/2024 08:50:58] "GET /page2 HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:50:58] "GET /static/styles.css HTTP/1.1" 304 -
127.0.0.1 - - [22/May/2024 08:51:11] "POST /page2 HTTP/1.1" 302 -
127.0.0.1 - - [22/May/2024 08:51:11] "GET /page3?id=1234&name=Shweta+Maharanawar&age=21 HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:51:11] "GET /static/styles.css HTTP/1.1" 304 -
C:\Users\ADMIN\anaconda3\envs\sepsis\lib\site-packages\sklearn\base.py:439: UserWarning: X does not have valid feature names, but RandomForestClassifier was fitted with feature names
  warnings.warn(
127.0.0.1 - - [22/May/2024 08:51:29] "POST /predict HTTP/1.1" 200 -
127.0.0.1 - - [22/May/2024 08:51:29] "POST /predict HTTP/1.1" 200 -
C:\Users\ADMIN\anaconda3\envs\sepsis\lib\site-packages\sklearn\base.py:439: UserWarning: X does not have valid feature names, but RandomForestClassifier was fitted with feature names
```

User Input:

Admin Dashboard

127.0.0.1:5000/page3?id=1234&name=Shweta+Maharanawar&age=21

Sepsis Detection System

Home

Sepsis Detection

SOFA, qSOFA & Sepsis Detection [View Scale](#)

Welcome **Shweta Maharanawar**

Low (Diastolic) Blood Pressure 85 (mm Hg)	High (Systolic) Blood Pressure 125 (mm Hg)	O ₂ Saturation 15 %
Altered Mentation (Glasgow Coma Scale) 15 GCS	Respiratory Rate (Breaths Per Minute) 15 BPM	
Temperature 15 °C	Heart Rate (Beats Per Minute) 80 BPM	Respiratory System (PaO ₂ /FiO ₂) 400 mmHg
Coagulation (Platelets) 150 X 10 ³ /µl	Liver (Bilirubin) 1 (mg/dl)	Kidney Function (Creatinine) 1 (mg/dl)

[Predict Now](#)

User Output:

Admin Dashboard

127.0.0.1:5000/page3?id=1234&name=Shweta+Maharanawar&age=21

Sepsis Detection System

Home

Sepsis Detection

SOFA, qSOFA & Sepsis Detection [View Scale](#)

Welcome **Shweta Maharanawar**

Sepsis Detection

Sepsis Not Detected

SOFA SCORE : 0

qSOFA SCORE : 0

[Close](#)

Low (Diastolic) Blood Pressure 85 (mm Hg)	O ₂ Saturation 15 %
Altered Mentation (Glasgow Coma Scale) 15 GCS	Respiratory Rate (Breaths Per Minute) 15 BPM
Temperature 15 °C	Respiratory System (PaO ₂ /FiO ₂) 400 mmHg
Coagulation (Platelets) 150 X 10 ³ /µl	Liver (Bilirubin) 1 (mg/dl)
Kidney Function (Creatinine) 1 (mg/dl)	

[Predict Now](#)

28°C Partly sunny

Search

ENG US 08:57 AM 22-05-2024

User Input:

Sepsis Detection System

Home

Sepsis Detection

SOFA, qSOFA & Sepsis Detection

View Scale

Welcome **Shweta Maharanawar**

Low (Diastolic) Blood Pressure 80 (mm Hg)	High (Systolic) Blood Pressure 130 (mm Hg)	O ₂ Saturation 92 %
Altered Mentation (Glasgow Coma Scale) 6 GCS	Respiratory Rate (Breaths Per Minute) 20 BPM	
Temperature 39 °C	Heart Rate (Beats Per Minute) 110 BPM	Respiratory System (PaO ₂ /FiO ₂) 300 mmHg
Coagulation (Platelets) 80 X 10 ³ /µl	Liver (Bilirubin) 10 (mg/dl)	Kidney Function (Creatinine) 4 (mg/dl)

Predict Now

User Output:

Sepsis Detection System

Home

Sepsis Detection

SOFA, qSOFA & Sepsis Detection

View Scale

Welcome **Shweta Maharanawar**

Low (Diastolic) Blood Pressure 80 (mm Hg)	O ₂ Saturation 92 %
Altered Mentation (Glasgow Coma Scale) 6 GCS	Respiratory Rate (Breaths Per Minute) 20 BPM
Temperature 39 °C	Respiratory System (PaO ₂ /FiO ₂) 300 mmHg
Coagulation (Platelets) 80 X 10 ³ /µl	Liver (Bilirubin) 10 (mg/dl)
Kidney Function (Creatinine) 4 (mg/dl)	

Predict Now

Sepsis Detection

Sepsis Detected with Low Risk

SOFA SCORE : 0

qSOFA SCORE : 1

Close

User Input:

The screenshot shows a web browser window with the URL `127.0.0.1:5000/page3?id=1234&name=Shweta+Maharanawar&age=21`. The page is titled "Sepsis Detection System" and "Sepsis Detection". It features a "SOFA, qSOFA & Sepsis Detection" section with a "View Scale" button. Below this is a "Welcome Shweta Maharanawar" message. The main area contains several input fields for medical parameters:

- Low (Diastolic) Blood Pressure: 90 (mm Hg)
- High (Systolic) Blood Pressure: 100 (mm Hg)
- O₂ Saturation: 92 %
- Altered Mentation (Glasgow Coma Scale): 6 GCS
- Respiratory Rate (Breaths Per Minute): 24 BPM
- Temperature: 39 °C
- Heart Rate (Beats Per Minute): 110 BPM
- Respiratory System (PaO₂/FiO₂): 300 mmHg
- Coagulation (Platelets): 80 X 10³/μl
- Liver (Bilirubin): 10 (mg/dl)
- Kidney Function (Creatinine): 4 (mg/dl)

A "Predict Now" button is located at the bottom of the input fields.

User Output:

The screenshot shows the same web browser window as the previous one, but with a modal dialog box displayed over the input fields. The dialog box is titled "Sepsis Detection" and contains the following text:

Sepsis Detected with High Risk

SOFA SCORE : 0

qSOFA SCORE : 3

A "Close" button is located at the bottom right of the dialog box.