

Supplemental Figure 1. Severe sepsis screening tool.

Chart record – use patient label. Do not remove from chart

Evaluation for Severe Sepsis Screening Tool

Instructions: Use this optional tool to screen patients for severe sepsis in the emergency department, on the wards, or in the ICU.

1. Is the patient's history suggestive of a new infection?

- | | | |
|-----------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> Pneumonia, empyema | <input type="checkbox"/> Bone/joint infection | <input type="checkbox"/> Implantable device infection |
| <input type="checkbox"/> Urinary tract infection | <input type="checkbox"/> Wound infection | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Acute abdominal infection | <input type="checkbox"/> Bloodstream catheter infection | |
| <input type="checkbox"/> Meningitis | <input type="checkbox"/> Endocarditis | |
| <input type="checkbox"/> Skin/soft tissue infection | | |

___ Yes ___ No

2. Are any two of following signs & symptoms of infection both present and new to the patient? Note: laboratory values may have been obtained for inpatients but may not be available for outpatients.

- | | | |
|------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Hyperthermia > 38.3 °C (101.0 °F) | <input type="checkbox"/> Tachypnea > 20 bpm | <input type="checkbox"/> Leukopenia (WBC count < 4000 μ L ⁻¹) |
| <input type="checkbox"/> Hypothermia < 36 °C (96.8 °F) | <input type="checkbox"/> Acutely altered mental status | <input type="checkbox"/> Hyperglycemia (plasma glucose >120 mg/dL) in the absence of diabetes |
| <input type="checkbox"/> Tachycardia > 90 bpm | <input type="checkbox"/> Leukocytosis (WBC count >12,000 μ L ⁻¹) | |

___ Yes ___ No

If the answer is yes to both either question 1 and 2, *suspicion of infection* is present:

- ✓ Obtain: lactic acid, blood cultures, CBC with differential, basic chemistry labs, bilirubin.
- ✓ At the physician's discretion obtain: UA, chest x-ray, amylase, lipase, ABG, CRP, CT scan.

3. Are any of the following organ dysfunction criteria present at a site remote from the site of the infection that are not considered to be chronic conditions? Note: the remote site stipulation is waived in the case of bilateral pulmonary infiltrates.

- SBP < 90 mmHg or MAP < 65 mmHg
- SBP decrease > 40 mm Hg from baseline
- Bilateral pulmonary infiltrates with a new (or increased) oxygen requirement to maintain SpO₂ > 90%
- Bilateral pulmonary infiltrates with PaO₂/FIO₂ ratio < 300
- Creatinine > 2.0 mg/dl (176.8 mmol/L) or Urine Output < 0.5 ml/kg/hour for > 2 hours
- Bilirubin > 2 mg/dl (34.2 mmol/L)
- Platelet count < 100,000
- Coagulopathy (INR >1.5 or aPTT >60 secs)
- Lactate > 2 mmol/L (18.0 mg/dl)

___ Yes ___ No

If *suspicion of infection* is present AND *organ dysfunction* is present, the patient meets the criteria for SEVERE SEPSIS and should be entered into the severe sepsis protocol.

Date: ___/___/___ (circle: dd/mm/yy or mm/dd/yy)

Time: ___:___ (24 hr. clock)

Supplemental Table 1. Hospitals and networks submitting to SSC database.

Hospital	City	Country
St. Joseph's Regional Medical Center	Paterson, NJ	USA
St. Joseph's Hospital Baycare	Tampa, FL	USA
Kansas University Hospital	Kansas City, KS	USA
St Thomas ICU	London	UK
Stony Brook University Hospital PICU	Stony Brook, NY	USA
Cooper University Hospital	Camden, NJ	USA
Hospital Gelderse Vallei	Ede	The Netherlands
HIAE	Sao Paulo	Brazil
Rhode Island Hospital	Providence, RI	USA
The Medical Center of Aurora	Aurora, IL	USA
Swedish Medical Center	Seattle, WA	USA
Baptist Medical Center Hospital	Memphis, TN	USA
Morton Plant Hospital	Clearwater, FL	USA
UCIP - HGSA	Porto	Portugal
DSG0001	Jena	Germany
H. Univ de Bellvitge	Hospitalet de Llobregat	Spain
Memorial Hospital Colorado Springs	Colorado Springs, CO	USA
H. PortuguOs	Salvador	Brazil
Nevill Hall Hospital, Abergavenny	Abergavenny	Wales
St Lukes Hospital Cedar Rapids	Cedar Rapids, IA	USA
H. Sao Paulo	Sao Paulo	Brazil
Presbyterian/St. Lukes Hospital	Denver, CO	USA
H.Universitário de Londrina	Londrina	Brazil
Good Samaritan Hospital	Baltimore, MD	USA
Exempla Saint Joseph Hospital	Denver, CO	USA
Boulder Community Hospital	Boulder, CO	USA
Denver Health	Denver, CO	USA
Exempla Lutheran Medical Center	Wheat Ridge, CO	USA
Hackensack University Medical Center	Hackensack, NJ	USA
Mease Countryside	Safety Harbor, FL	USA
Union Hospital	Terre Haute, IN	USA
Piedmont Hospital	Atlanta, GA	USA
University Hospital, Augusta	Augusta, GA	USA
HH-MICU	Houston, TX	USA
Sentara Norfolk General Hospital	Norfolk, VA	USA
Carolinas Medical Center	Charlotte, SC	USA
San Giovanni Battista Hospital of Turin	Turin	Italy
Altru Hospital	Grand Forks, ND	USA
Banner Desert Medical Center	Mesa, AZ	USA

Intensive Care Medicine

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3	Georgetown University Hospital	Washington, DC	USA
4	Sentara VBGH	Virginia Beach, VA	USA
5	UHW	Cardiff	Wales
6	SAH	St. Petersburg, FL	USA
7	Exempla Good Samaritan Hospital	Lafayette, LA	USA
8	St. Anthony Central	Denver, CO	USA
9	FALP	Santiago	Chile
10	Sentara Leigh	Norfolk, VA	USA
11	H. Univ de Girona Josep Trueta	Girona	Spain
12	Franklin Square Hospital Center	Baltimore, MD	USA
13	H. Valle Hebron	Barcelona	Spain
14	H. Donostia	San Sebastian	Spain
15	H. Virgen de la Macarena	Sevilla	Spain
16	Newham University Hospital NHS Trust	London	UK
17	Good Hope Hospital NHS Trust	West Midlands	UK
18	Olathe Medical Center	Olathe, KS	USA
19	H. Pro-Cardfaco	Rio de Janeiro	Brazil
20	H. Virgen Victoria Málaga	Málaga	Spain
21	H. Univ Dr Peset	Valencia	Spain
22	Providence AK Med Ctr	Anchorage, AK	USA
23	Lakeland Regional Medical Center	Lakeland, FL	USA
24	North Bay Hospital	New Port Ritchie, FL	USA
25	DSG0058	Greifswald	Germany
26	H. Gregorio Marañón	Madrid	Spain
27	Hospital Virgen del Rocío	Sevilla	Spain
28	Washington Hospital Center	Washington, DC	USA
29			Northern
30	Craigavon Hospital	Craigavon	Ireland
31	Shawnee Mission Medical Center	Shawnee Mission, KS	USA
32	STH EW1	London	UKi
33	PUC	Santiago	Chile
34	Mease Dunedin	Dunedin, FL	USA
35	H. de Manresa	Manresa	Spain
36	St. Lukes Regional Medical Center, Sioux City	Sioux City, IA	USA
37	H. Son Dureta	Mallorca	Spain
38	H.de Base	Spo JosT do Rio Preto	Brazil
39	H. Parc Taull	Sabadell	Spain
40	H. Univ de Salamanca	Salamanca	Spain
41	Wyoming Medical Center	Casper, WY	USA
42	H. Univ de Valme	Sevilla	Spain
43	STH EW2	London	UK
44	Sentara Careplex Hospital Section 3	Hampton, VA	USA
45	Saint Joseph Medical Center	Kansas City, KS	USA
46	Sentara Careplex Hospital Section 2	Hampton, VA	USA
47	Littleton Adventist Hospital	Littleton, CO	USA
48	H. Municipal Spo JosT	Joinville	Brazil
49	DSG 0005	Berlin	Germany
50		Las Palmas de Gran	
51	H. Univ Insular Gran Canaria	Canaria	Spain
52	Rose Medical Center	Denver, CO	USA
53	Presbyterian Hospital	Charlotte, SC	USA
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Intensive Care Medicine

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3	MICU	Houston, TX	USA
4	H. Morales Meseguer	Murcia	Spain
5	H. Univ Central Asturias	Asturias	Spain
6	GBR\RW3MR	Manchester	UK
7	West Suburban	Oak Park, IL	USA
8	H. Mútua de Terrassa	Terrassa	Spain
9	Hospital Austral	Pilar	Argentina
10	Evanston	Evanston, IL	USA
11	H. San Agustin	Aviles	Spain
12	H. Reo Ortega	Valladolid	Spain
13	Sentara Careplex Hospital Section 1	Hampton, VA	USA
14	Kettering General Hospital	Kettering	UK
15	Hospital Univ San Cecilio	Granada	Spain
16	Union Memorial Hospital	Baltimore, MD	USA
17	Sentara Bayside Hospital	Virginia Beach, VA	USA
18	H. General Yague	Burgos	Spain
19	H. Juan Ramon Jimenez	Huelva	Spain
20	DSG0034	Emden	Germany
21	Covenant Health System	Lubbock, TX	USA
22	H. Clfnico Univ de Valladolid	Valladolid	Spain
23	Hoag Hospital	Newport Beach	USA
24	do Servidor Público Estadual de SP	Spo Paulo	Brazil
25	H. General de Ciudad Real	Ciudad Real	Spain
26	Stony Brook University Hospital MICU	Stony Brook, NY	USA
27	H. Cabueñes	Gijon	Spain
28	Hospital de Clinicas Caracas	Caracas	Venezuela
29	C. Hospitalario Univ Albacete	Albacete	Spain
30	Azienda Ospedaliera G.Rummo	Benevento	Italy
31	OSF SAMC - CCC	Rockford, IL	USA
32	C. H. UNIMED	Joinville	Brazil
33	H. Rfo Carrion	Palencia	Spain
34	H. de Leon	Leon	Spain
35	H. de Terrassa	Terrassa	Spain
36	Centro Medico Delfos	Barcelona	Spain
37	H. de Sagunt	Valencia	Spain
38	Stony Brook University Hospital SICU	Stony Brook, NY	USA
39	Allen Memorial Hospital, Waterloo	Waterloo	USA
40	H. Santa Luzia	Brasflia	Brazil
41	Northern Michigan Hospital	Petoskey, MI	USA
42	St. Marys Health Center	Richmond Heights, VA	USA
43	Highland Park	Highland Park, IL	USA
44	H. San Carlos	Madrid	Spain
45	Providence Everett Medical Center	Everett, WA	USA
46	H. Santa Bárbara	Soria	Spain
47	H. Clfnico de Valencia	Valencia	Spain
48	H. Torrecardenas	Almerfa	Spain
49	H. La Mancha Centro	Ciudad Real	Spain
50	H. General de Mostoles	Mostoles	Spain
51	DSG0040		Germany
52	Sky Ridge Medical Center	Cleveland, TN	USA
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Intensive Care Medicine

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3	Thomas Hospital	Fairhope, AL	USA
4	Empresa Pública Hospital de Poniente	El Ejido	Spain
5	Stony Brook University Hospital	Stony Brook, NY	USA
6	H. de Matpo	Matpo	Brazil
7	H. de Caridade Astrogildo - Santa Maria	Santa Maria	Brazil
8	Harbor Hospital	Baltimore, MD	USA
9	UCI HDS	Santiago	Chile
10	Scott & White	Temple, TX	USA
11	H. Virgen del Camino	Pamplona	Spain
12	39tos004/rianimazione	Pisa	Italy
13	Sentara Williamsburg Regional M C	Williamsburg, VA	USA
14	Glenbrook	Glenview, IL	USA
15	H. Dona Helena	Joinville	Brazil
16	VA Medical Center 01		USA
17	Royal Berkshire NHS Foundation Trust	Reading	UK
18	H. General de Segovia	Segovia	Spain
19	Penrose Hospital	Colorado Springs, CO	USA
20	Policlinico Universitario A.Gemelli	Rome	Italy
21	H. Vega Baja	Orihuela	Spain
22	H. Univ Puerta del Mar	Cádiz	Spain
23	H. Nuestra Señora del Prado	Talavera de la Reina	Spain
24	DSG0049	Siegen	Germany
25	DSG0003	Berlin	Germany
26	Hospital Vivalle	Spo JosT dos Campos	Brazil
27	H.Escola da F.de M. de Itajubá	Itajubá	Brazil
28	Harbor - UCLA MC	Torrance, CA	USA
29	St Clare Hospital Franciscan Health	Tacoma, WA	USA
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