Useful Patients:

15 years or greater at ICU admission with at least one assessment

each of GCS(198), BUN(1162), hematocrit(813), and heart rate(211) recorded in the EHR

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SIRS:

ITEMID: Temperature 678(F) >101 or <96.8

Temperature 677(C)

Heart Rate 211(BPM) >90

Respiratory Rate 618(insp/min) >20

(At leaste two of above happens)

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Sepsis:

SIRS +

Has at least one of those ICD\_9 Code:

001, Cholera; 002, Typhoid/paratyphoid fever; 003, Other salmonella infection; 004, Shigellosis; 005, Other food poisoning; 008, Intestinal infection not otherwise classified; 009, Ill-defined intestinal infection; 010, Primary tuberculosis infection; 011, Pulmonary tuberculosis; 012, Other respiratory tuberculosis; 013, Central nervous system tuberculosis; 014, Intestinal tuberculosis; 015, Tuberculosis of bone and joint; 016, Genitourinary tuberculosis; 017, Tuberculosis not otherwise classified; 018, Miliary tuberculosis; 020, Plague; 021, Tularemia; 022, Anthrax; 023, Brucellosis; 024, Glanders; 025, Melioidosis; 026, Rat-bite fever; 027, Other bacterial zoonoses; 030, Leprosy; 031, Other mycobacterial disease; 032, Diphtheria; 033, Whooping cough; 034, Streptococcal throat/scarlet fever;

035, Erysipelas; 036, Meningococcal infection; 037, Tetanus; 038, Septicemia; 039, Actinomycotic infections; 040, Other bacterial diseases; 041, Bacterial infection in other diseases not otherwise specified; 090, Congenital syphilis; 091, Early symptomatic syphilis; 092, Early syphilis

latent; 093, Cardiovascular syphilis; 094, Neurosyphilis; 095, Other late symptomatic syphilis; 096, Late syphilis latent; 097, Other and unspecified syphilis; 098, Gonococcal infections; 100, Leptospiro-

sis; 101, Vincent’s angina; 102, Yaws; 103, Pinta; 104, Other spirochetal infection; 110, Dermatophytosis; 111, Dermatomy cosis not otherwise classified or specified; 112, Candidiasis; 114, Coccidioidomycosis; 115, Histoplasmosis; 116, Blastomycotic infection; 117, Other mycoses; 118,

Opportunistic mycoses; 320, Bacterial meningitis; 322, Meningitis, unspecified; 324, Central nervous system abscess; 325, Phlebitis of intracranial sinus; 420, Acute pericarditis; 421, Acute or subacute endocarditis; 451, Thrombophlebitis; 461, Acute sinusitis; 462, Acute pharyngitis; 463, Acute tonsillitis; 464, Acute laryngitis/tracheitis; 465, Acute upper respiratory infection of multiple sites/not otherwise specified; 481, Pneumococcal pneumonia; 482, Other bacterial pneumonia; 485, Bronchopneumonia with organism not otherwise specified; 486, Pneumonia, organism not otherwise

specified; 491.21, Acute exacerbation of obstructive chronic bronchitis; 494,Bronchiectasis; 510, Empyema; 513, Lung/mediastinum abscess; 540, Acute appendicitis; 541, Appendicitis not other-

wise specified; 542, Other appendicitis; 562.01, Diverticulitis of small intestine without hemorrhage; 562.03, Diverticulitis of small intestine with hemorrhage; 562.11, Diverticulitis of colon without

hemorrhage; 562.13, Diverticulitis of colon with hemorrhage; 566, Anal and rectal abscess; 567, Peritonitis; 569.5, Intestinal abscess; 569.83, Perforation of intestine; 572.0, Abscess of liver; 572.1,

Portal pyemia; 575.0, Acute cholecystitis; 590, Kidney infection; 597, Urethritis/ urethral syndrome; 599.0, Urinary tract infection not otherwise specified; 601, Prostatic inflammation; 614, Female pelvic inflammation disease; 615, Uterine inflammatory disease; 616, Other female genital inflammation; 681, Cellulitis, finger/toe; 682, Other cellulitis or abscess; 683, Acute lymphadenitis; 686, Other local skin infection; 711.0, Pyogenic arthritis; 730, Osteomyelitis; 790.7, Bacteremia; 996.6, Infection or inflammation of device/graft; 998.5, Postoperative infection; 999.3, Infectious complication of

medical care not otherwise classified.

or

NOTEEVENTS.csv contains "sepsis"

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Severe Sepsis:

Sepsis + the presence of any of the following:

systolic blood pressure <90 mmHg; lactate > 2.0 mmol/L; urine output < 0.5 mL/kg

over the preceding two hours despite adequate fluid resuscitation; creatinine > 2.0 mg/dL without the

presence of chronic dialysis or renal insufficiency as indicated by an ICD-9 code of V45.11 or 585.9;

bilirubin > 2 mg/dL without the presence of chronic liver disease and cirrhosis as indicated by an ICD-9

code of 571 and any of the subcodes; platelet count < 100,000 μL; international normalized ratio (INR) >

1.5; acute lung injury with PaO 2 /FiO 2 < 200 in the presence of pneumonia indicated by an ICD-9 code of

486; or acute lung injury with PaO 2 /FiO 2 < 250 in the absence of pneumonia indicated by the absence of

an ICD-9 code of 486.

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Septic Shock:

Severe Spesis +

SBP less than 90 mmHg for at least 30 min, and received adequate fluid resuscitation, defined as

the total fluid replacement per kilogram over the past 24 hours ≥20 ml

or total fluid replacement ≥1200 ml