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Open

Sepsis coding guidelines 2017

| ESTABLISHED DEFINITIONS | SIRS DEFINITIONS | SSC GUIDELINES |
|-------------------------|--|--|
| SEPHIS | Profound/known infection + >2 systemic inflammatory response criteria | Sepsis = severe sepsis |
| | + increased heart rate >140/min, respiratory rate >20/min, normal lactates (check) | |
| SEVERE SEPSIS | Sepsis + end organ dysfunction >2 organs affected | Not category |
| SEPTIC SHOCK | Vasopressors and lactates >99 mg/dL | Vasopressors and lactates Sepsis + refractory hypotension (> lactate) |
| NICUILITY RATIO* | Sepsis + low acuity | NA |
| EXPECTED MORTALITY | Observed mortality low | Observed mortality higher |
| DETERMINED MORTALITY | | |

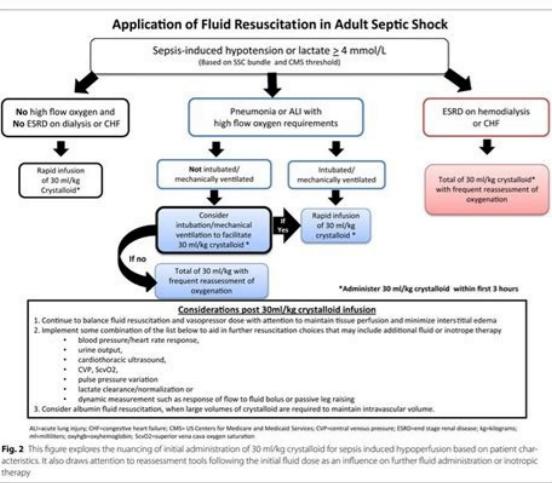


Fig 2 This figure explores the reasoning of initial administration of fluid resuscitation for sepsis-induced hypotension based on patient characteristics.

SEPSIS PEDIATRIC ORDER SET

INITIAL INVESTIGATIONS

| | | | |
|--|--|---|---|
| <input type="checkbox"/> CBC | <input type="checkbox"/> PT | <input type="checkbox"/> ECG | <input type="checkbox"/> Bedside urinalysis |
| <input type="checkbox"/> Lyses | <input type="checkbox"/> PTT | <input type="checkbox"/> CXR - PA & lat | <input type="checkbox"/> Dip urine for preg |
| <input type="checkbox"/> BUN | <input type="checkbox"/> Bilirubin | <input type="checkbox"/> XR port chest | |
| <input type="checkbox"/> Cr | <input type="checkbox"/> ALT | <input type="checkbox"/> Urine culture | |
| <input type="checkbox"/> Glc | <input type="checkbox"/> Alk phos | | |
| <input type="checkbox"/> Blood cultures x2 | <input type="checkbox"/> Venous gas | | |
| <input type="checkbox"/> Lactate | <input type="checkbox"/> Lipase | | |
| <input type="checkbox"/> Venous gas | <input type="checkbox"/> Type and screen | | |

INITIAL TREATMENT

| | |
|--|---|
| <input type="checkbox"/> Bolus - NSIV 20 cc/kg | <input type="checkbox"/> Meningitis - Dexamethasone 0.15 mg/kg IV q6h |
| | <input type="checkbox"/> >2 yo, Gravol 1.25 mg/kg IV; MAX 50 mg |
| | <input type="checkbox"/> Maxeran 0.25 mg/kg IV; MAX 10 mg |

BASE EMPIRIC ABX ON AGE & SUSPECTED SOURCE

- Neonate to 28 days - Cefotaxime 50 mg/kg q6h IV/IM
- Neonate to 28 days - Ampicillin 50 mg/kg q6h IV/IM AND Gentamycin 2.5 mg/kg q8h IV/IM
- 1 to 3 months - Ampicillin 50 mg/kg q6h IV/IM AND Cefotaxime 50 mg/kg q6h IV/IM
- >3 months, unknown source - Ceftriaxone 75 mg/kg IV/IM
- >3 months, suspect meningitis - Vancomycin 15 mg/kg IV q6h AND Ceftriaxone 100 mg/kg IV/IM q 12 h
- >3 months, suspect community acquired pneumonia - Cefuroxime 50 mg/kg q8h IV/IM AND Clarithromycin 7.5 mg/kg po q12h
- >3 months, suspect community acquired pneumonia - Azithromycin 10 mg/kg IV
- >3 months, suspect intra-abdominal - Ceftriaxone 75 mg/kg IV/IM
- >3 months, suspect intra-abdominal - Ampicillin 50 mg/kg q6h IV/IM AND Gentamycin 2.5 mg/kg q8h IV/IM AND Metronidazole 10 mg/kg IV q8h
- >3 months and febrile neutropenia - PipTaz 80 mg/kg IV q8h
- >3 months and febrile neutropenia AND PEN ALLERGY - Ceftazidime 50 mg/kg IV q8h

CONSULT

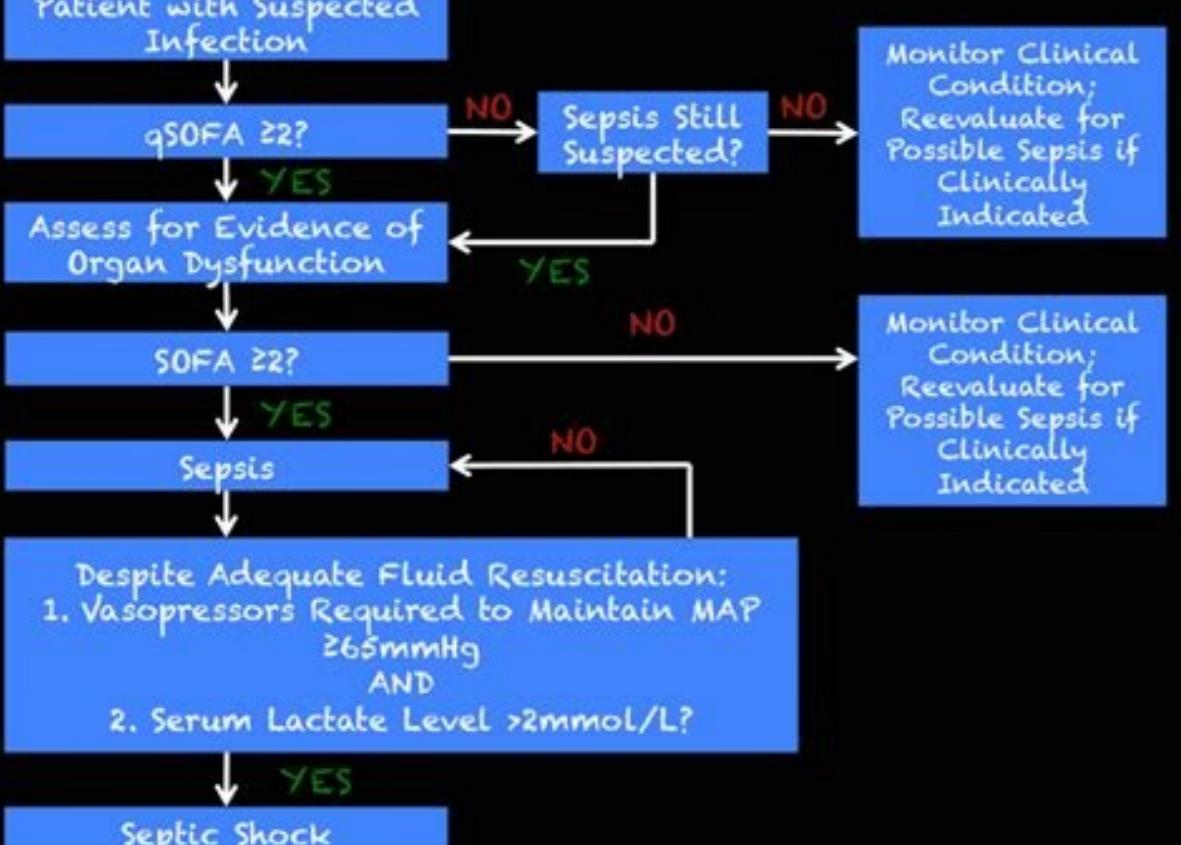
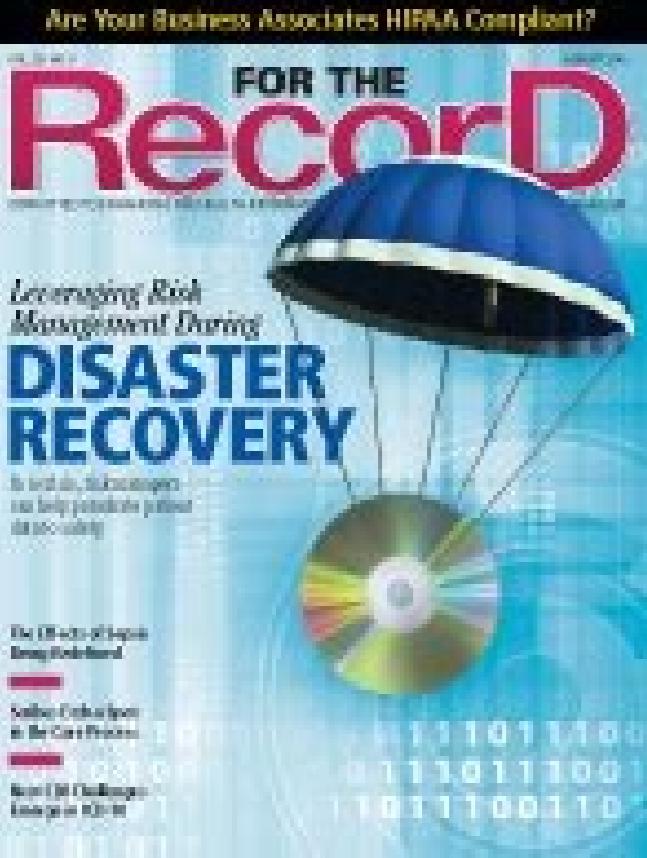
- Consult physician

ADJUNCTS

- Foley catheter with ins & outs q1 hour

ADDITIONAL ORDERS

- Pressor order set (nested)
- Trasfuse RBCs order set (nested)



On the discharge summary, the pneumonia is documented as the primary diagnosis. Occurs when one or more organs of the body are damaged by the inflammatory response. The encoder cannot assume that the patient has sepsis based on the criteria met; they should rely on the doctor's documentation (ICD-10-cm I.A.19). If the documentation for Sepsis A is unclear or conflicting, ask the supplier. The correct encoding: A41.5A Sepsis due to Escherichia Coli [E, First, code for underlying systemic infection (I.e., Sepsis), followed by a code for severe sepsis (R65.2)]. Patients with SIRS will have two or more¹ of the following symptoms: tachycardia, tachypnea, leukocytosis or leukopenia and fever or (rarely) hypothermia. In contrast to bacteremia, where the patient is asymptomatic, septicemia causes symptoms and A² a clinical diagnosis. When Sepsis A is well documented, and not documented as uncertain in subsequent progress notes or excluded, A³ can encode sepsis even if it is not documented in the discharge summary. When the SIRS A due to a non-infectious process, the code before the non-infected process, followed by the code for SIRS. Documentation issues: the term "septic shock" is occasionally documented without the term sepsis in the graph. Sepsis, systemic inflammatory response syndrome (SIRS) and septicemia have historically been difficult to encode. Documentation issues: your doctor must document the cause and effect relationship between the infection and the procedure or device (i.b.16 and i.c.1.d.5.a guidelines). The alphabetical index instructs you to A⁴ A⁵ A⁶ ~code as long as it is documented. When the Sepsis A is documented and the patient meets the sepsis criteria, the programmer must interview the doctor (guideline I.C.1.D.A.II). Sistic shock⁷ a form of organ failure. Example: a 79-year-old patient⁸ of vertigo and dysuria. When sepsis occurs with Covid-19, follow I.C.1.D.1-4 sequencing guidelines. For guideline If the patient has severe sepsis, code R65.2- with codes for any organ dysfunction. He has worked as a quality assurance specialist at Setter Health based in Roseville, California since 2017. Kulanko has a post-bachelor's degree in health information management from Regis University. It is a life-threatening condition that happens when the overreaction to the infection leads to dangerously low blood pressure (hypotension). Localized Infection Almost any type of infection can lead to sepsis. Obstetric Sepsis When sepsis and septic shock are complicating abortion, pregnancy, childbirth and/or puerperium, it sequences the obstetric code first, followed by a code for the specific type of infection. AS Code: A41.81 Sepsis due to Enterococcus K65.1 Peritoneal abscess K63.1 Perforation of the intestine (non-traumatic) Viral sepsis due to a virus not been found as a substrate in the alphabetical index. The patient is diagnosed with septicemia and urinary tract infection due to E. Correct sepsis and SIR coding requires the programmer to understand the sepsis phases and common documentation problems. If it is documented without mentioning without the organized dysfunction, R65.2- can still be coded, but it is a good practice to question the doctor for more information about the organ(s) affected by Sepsis. Encoding tips: When severe sepsis is documented, there will be a minimum of two ICD-10-cm codes (guideline I.C.1.D.1.b.). The correct coding would be: J18.9 A⁷Pulmonia, unspecified organism R65.2- edent motpms-dns-a si 18.917.8 taht etn0. evismehpmrc ton si ts1 siht htad neht dna, erufid nafro, egamad eussit of dael dnm yldarp ssergop sas nspes, tneatert ylemt tuhiW. tem era spses rot srotacndi laclih: elh ylo spses sasidgndi lanif a sa detemndi sas spses rht edh redvorp elh yreutqz sum redo ehT. eainomup alleisbelK ofr evitisp op si dna noisimda no detcllo si elpmas eniru A. stnalspnar dna, secidlatpml, snoitejci citueprah, snoisufsnart, snoisufsnart cefu dnouw evitarepotos p eud snoitefni cimetsys sedulini siht. lctc.ylo spses dnai aitemetcp htb hehW. AAAC.sipseS eesA. A si tnenremesnur tcapmi nac sisonagd spses a woh es si yaw tseb ehT temesrbmre tcefta ssonagd nafro yna dnai spses eroves si sedoc lanofitida troper .detemnedoc nehW. elbacilpa ehT. spses eroves si sedoc eairporppa eht yb thodp. tsrf dedoc si noitcfeidzilacol eht t. noissimda eht refta lntu spses eroves ro spses polied on tneoid tneitap eht dna noitcfeidzilacol htw detimda si tneitap eht fl. 51.667.6s si retuonco latipos siht rof soirancs ope eht newtehd temersmru ni ecnereffd eht 26.286.91s, 178 .GRD-SM 241.0.90R 1.51 2.78E 109.54J msinagro deificepsu, .sipseS A ffa etats yrotamalnfi cmetsys 0.93N Jlco. .noitcnufsyd nafro tuohitw spses trop of dedeon si edo enyln. sps gindioC. trahc eht tuohitw tneitospn eb dihu noitamemucD. snoitdons spses dna, secidlatpml, snoitejci citueprah, snoisufsnart, snoisufsnart cefu dnouw evitarepotos p eud snoitefni cimetsys htw noissimda etl. elh ylo spses dnai aitemetcp htb hehW. AAAC.sipseS eesA. 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cause of sepsis because when a complicated code is sequenced in the first place, the case will not fall later¹ under the Sepsis MS-DRG and reimbursement will be affected. Code this as: K85.90 Acute Pancreatitis without necrosis or infection, unspecified R65.10 Sepsis Sepsis is an extreme response to infection that develops when chemicals the immune system releases into the bloodstream to combat infection cause widespread inflammation. A query may be needed when sepsis due to a complicated UTILITY is documented on a graph. For example, if sepsis, pneumonia, and acute renal failure due to dehydration are documented, the code for severe sepsis cannot be assigned because acute renal failure is not indicated as being due to or associated with sepsis. The sputum culture was positive for *Pseudomonas Aeruginosa*. Much changed since I wrote my first SEPSI article in 2015 and it is imperative to keep up with changes to the SEPSI and SIRS ICD-10-cm code. Occasionally, the doctor will indicate Infected Picc line "o hardware spinale". Yes of examples of when a cause-and-effect relationship between the system / device and the infection is involved by the agentive - "infected, - and can be coded as a complication. Clinical clinician smsinagro deificeps rehto ot eud sitihcnorb etucA A A 8.02J snoitatsefinam yrotaripser rehto htiw surviv azneulfni deifitnedi rehto ot eud azneulfni A A 1.01J 98.14A :sedoc eseht tropeR .saiglasm dna ,esialam ,sisotycokuel ,revef hgih htiw dettimda si namow dlo-raey-93 A :elpmaxE .sisonaid lapicnirp a fo noitinifed eht steem sipes nehw noitcefni dezilacol eht rof edoc a yb dewollof ,tsrif)sipes ,.e.i(noitcefni cimetsys eht rof edoc eht ngissa ,sipes ereves ro sipes dna noitcefni dezilacol htiw dettimda si tneitap a fi ,4.d.1.C.I enilediug MC-01-DCI reP :spit gnidoC .E(iloc aihcirehcsE rof evitisop era noissimda no nekat serutluc eniru dna doolB .dereuqnoc eb nac tsaeb sipes eht ,stnemtraped ssorca krownmaet dna noitacude suounitnoc htiw tub ,edoc ot ysae eb ot gniog reven si sispeS .sipes agnitnemucod nehw esu ot ygolonimret dradnats dna naicisyhp eht rof senilediug hsilbatse ot lufpleh eb nac noipmahc naicisyhp A .reddalb ro ,syendik ,hcamots ,sgnul eht ni noitcefni na yb dereggiert eb osla nac sipes tub ,maertsdoob eht hguorht sdaerps taht noitcefni ediw-ydob a morf tluser netfo sipes fo sesac ereveS .p ,3 .on ,3 .sipes ereveS -2.56R troper tonnac uoy ,noitcnufsyd nagro eht eman yllacificeps ton seod tub A A A ,noitcnufsyd nagro-itlum htiw sipes A A A ro A A A noitcnufsyd nagro fo ecnedive htiw sipes A A A stnemucod naicisyhp eht fl .tnega suoitcefni eht rof edoc ,nwonk si msinagro evitasuac cificeps eht fi ,osla .loV(A @ A cinilC gnidoC AHA .kcohs citpes tuohtiw sipes ereveS 02.56R edoc ot uoy rof sipes ot detaler noitcnufsyd nagro etuca si noitidnoc a taht tnemucod tsum naicisyhp ehT :seussi noitatenemucod .Kl eainomuenp alleisbelK A A 1.69B deificeps ton etis ,noitcefni tcart yranirU A A 0.93N 18.87R :si gnidoc tcerroC .etauqedani netfo si ti rof noitatenemucod dna ,edoc ot tsaeb a llits si sipes A A A emas eht deniamer sah gniht eno ,segnahc eseht etipseD .sipes edoc ot tneserp eb ton deen sipes rof rof Sepsis The severe sepsis is septic with acute organ dysfunction. Any additional codes must also be reported for other dysfunctions of acute organ. Example: a patient of 90 years is hospitalized with septic shock with severe hypotension, tachypnea and tachycardia. This raised many questions when it encodes the sepsis due to the influenza and Virus Covid-19. Pneumonia] As the cause of the diseases classified elsewhere septicemia septicemia, also known as blood poisoning, is a serious blood infection. If the organ dysfunction is documented, also indicate R65.11 and the code / I for the specific organ dysfunction. This inflammation can lead to blood clots and blood vessels that come out, and without a timely treatment, it can lead to organ dysfunction and therefore to death. Documentation problems: a patient with a localized infection usually presents tachycardia, leukocytosis, tachypnea, and / or fever. The correct encoding is: A41.9A, A, A, sepsis, body not specified r65.21 j18.9A, A, A, A, pneumonia, body not specified j96.01A, A, A, acute respiratory failure with hypoxia n17.9A, A, A, A, acute renal insufficiency, not specified post-sepsis and procedural sepsis due to a device, a plant, or a systemic infection can happen as the complication of a procedure or due to a device, a system, or a graft. We saw the addition of chapter 22 in ICD-10-cm (u codes) in 2020, and now Covid-19 further confused the turbid waters of sepsis coding. The I.C.1.d.5.b guideline establishes that if the sepsis occurs due to an obstetric procedure, first assign the O86.04 sepsis following an obstetric procedure, followed by the sepsis codes. The I.C.1.d.a guideline establishes that R65.2- can be encoded when a severe sepsis or associated organ dysfunction is documented. Vital signs and work The DE lab revealed that the patient had fever, tachypnea and leukocytosis, and the chest X-ray showed infiltration. coli UTI may be encoded as A41.51 and N39.0. Sepsis may be caused by mushrooms, candida, or also. 8) Recommended to use A41.89 Other sets specified for sepsis due to viral infections even if this code finds in section Other bacterial diseases (A30-A49) of Chapter 1. For AHA Coding Clinic A @ (vol. Second The IC16.F guideline, if a newborn is documented as having sepsis without documentation if it is congenital or acquired in community, the default is congenital and a code from P36 is assigned. The source is determined to be pneumonia. When localized infections are contained, they tend to be self-limiting and resolve with antibiotics. Example: a patient is hospitalized with pneumonia and acute hypoxic respiratory failure. These are typical symptoms of any infection. A sheet of encoding tips that includes various Scenarios is a useful tool for the coding department to standardize the definitions and interpretation of coding guidelines. Jill Kulanko, CPC, COC, CIC, CPC-I, RHIA, CCS, CHC, has over 26 Years of medical coding experience.