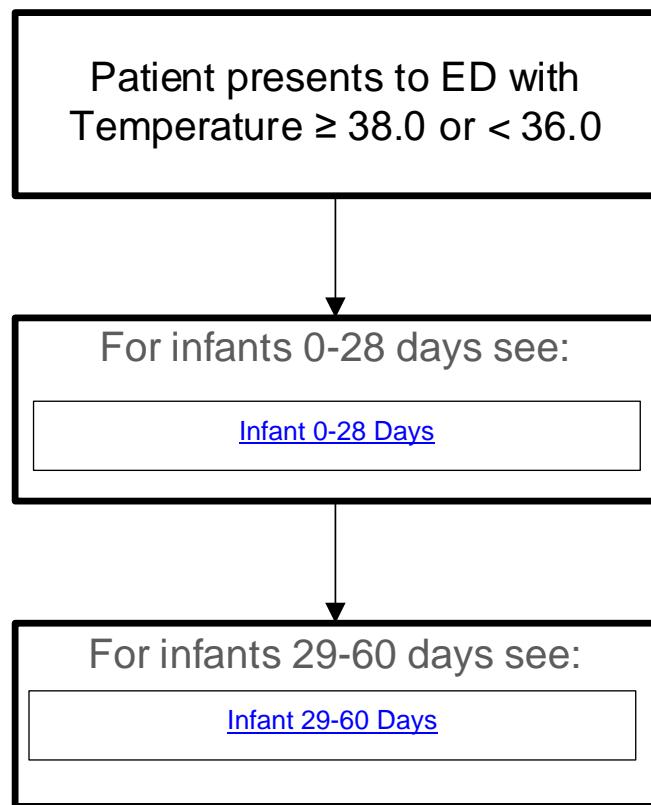

Clinical Pathways Program

Guideline: Pediatric Febrile Infant 0-60 days, Inpatient

Last updated: 9/29/23

Clinical algorithm:



Clinical guideline summary

CLINICAL GUIDELINE NAME: Febrile Neonatal 0-60 days

PATIENT POPULATION AND DIAGNOSIS: Infants ≤ 60 Days

APPLICABLE TO: Helen DeVos Children's Hospital, SH Regional Hospitals

BRIEF DESCRIPTION: This clinical practice guideline applies to the initial evaluation and management of infants less than 60 days with fever.

TEAM LEADER(S): Erica Michiels, Andrea Hadley, Rosey Olivero, and Nicole Kalinowski

OWNING EXPERT IMPROVEMENT TEAM (EIT): Inpatient Pediatric Clinical Practice EIT

MANAGING CLINICAL PRACTICE COUNCIL (CPC): Children's Health CPC

CPC APPROVAL DATE: 6/17/2021

OTHER TEAM(S) IMPACTED (Example: other CPCs, anesthesia, nursing, radiology, etc.):
Nursing, Pharmacy, Infectious disease

IMPLEMENTATION DATE: 6/18/2021

LAST REVISED: 1/17/2022

FOR MORE INFORMATION, CONTACT: Erica Michiels

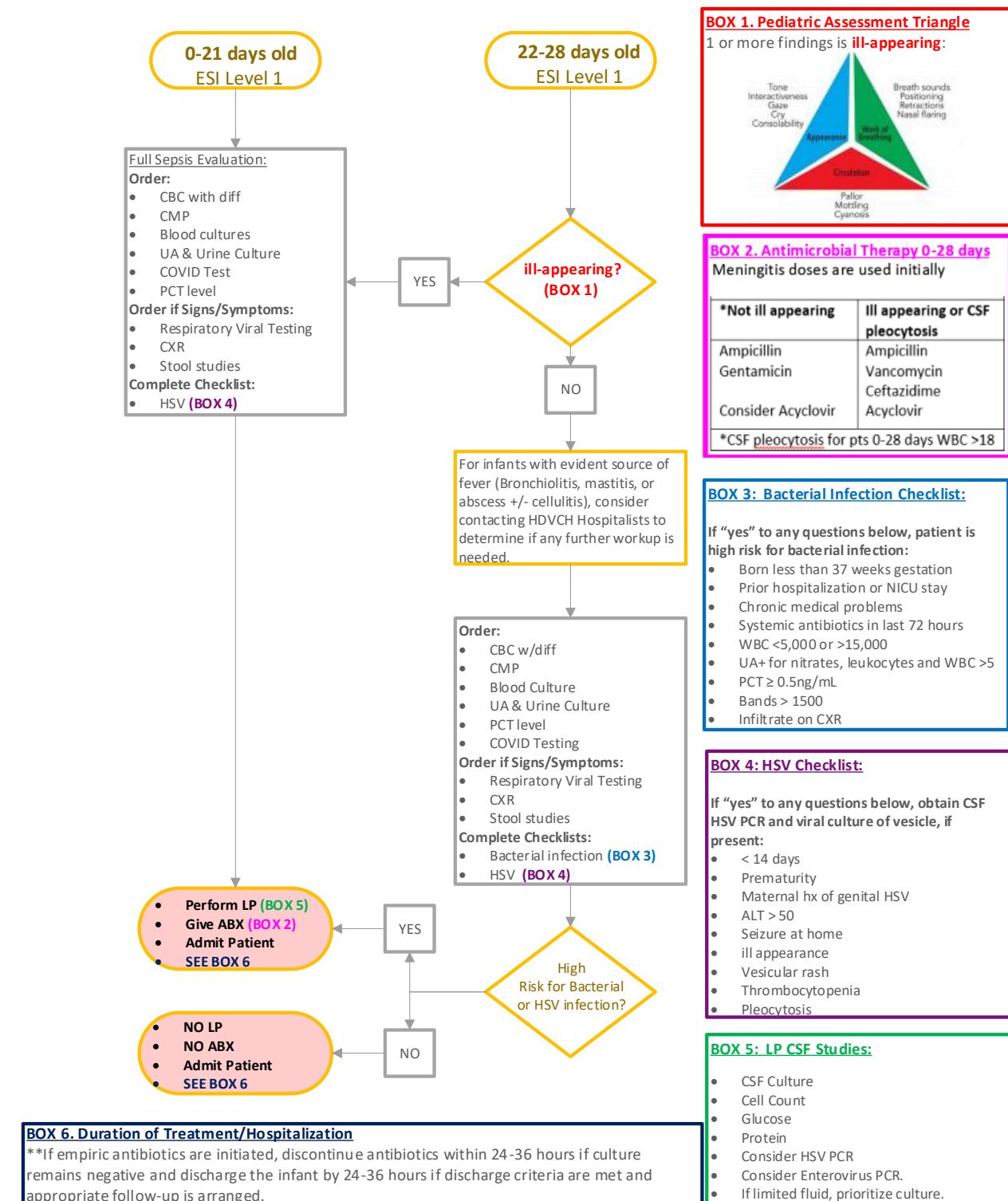
Clinical pathways clinical approach

TREATMENT AND MANAGEMENT:

Infant 0-28 Days

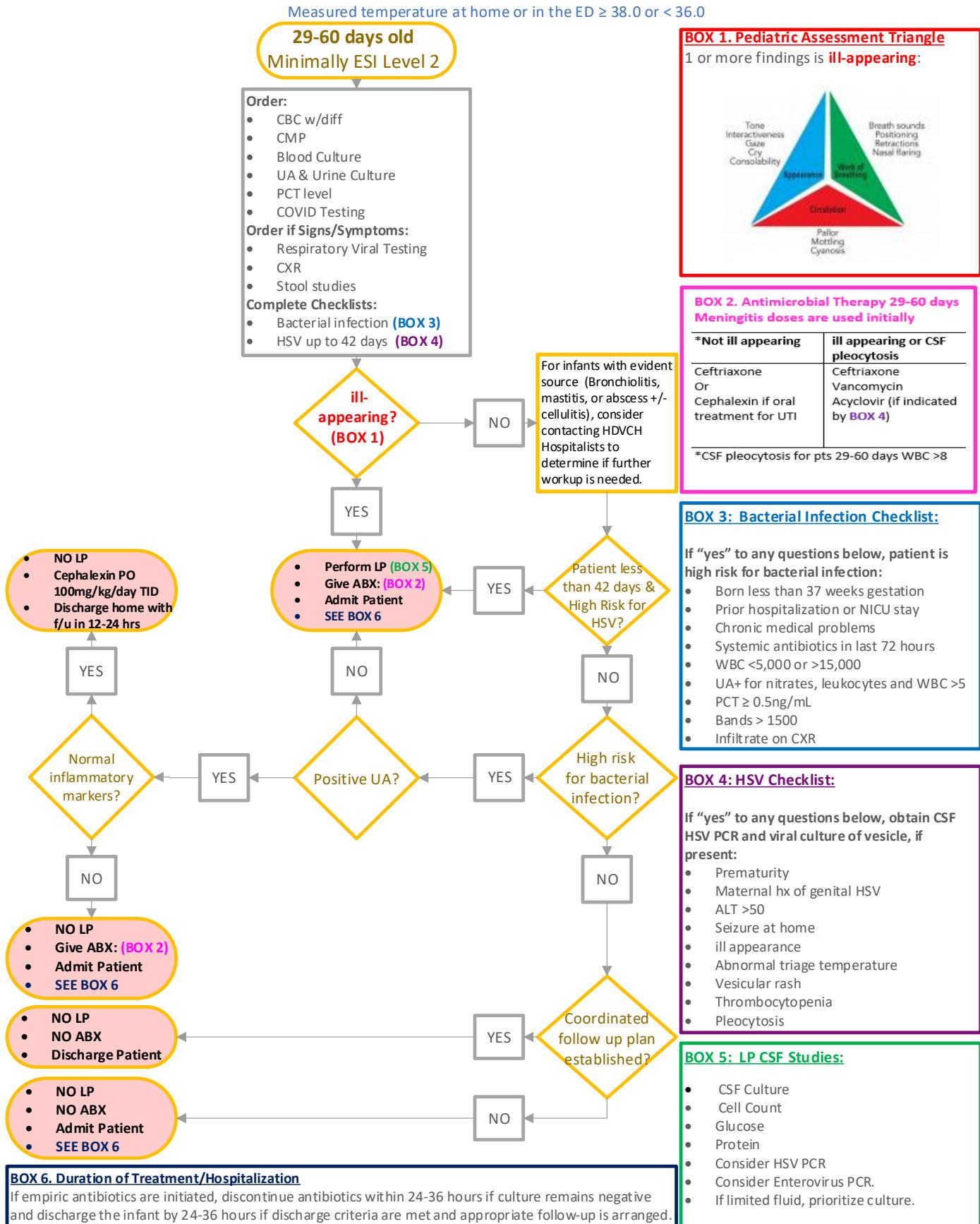
Febrile Neonatal Guideline 0-28 Days

Measured temperature at home or in the ED ≥ 38.0 or < 36.0



Infant 29-60 Days

Febrile Neonatal Guideline 29-60 Days



References:

- Averbuch, D., Nir-Paz, R., Tenenbaum, A., Stepensky, P., Brooks, R., Koplewitz, B. Z., Simckes, A. M., & Engelhard, D. (2014). Factors associated with bacteremia in young infants with urinary tract infection. *The Pediatric infectious disease journal*, 33(6), 571–575. <https://doi.org/10.1097/INF.0000000000000316>
- Biondi, E., Evans, R., Mischler, M., Bendel-Stenzel, M., Horstmann, S., Lee, V., Aldag, J., & Gigliotti, F. (2013). Epidemiology of bacteremia in febrile infants in the United States. *Pediatrics*, 132(6), 990–996. <https://doi.org/10.1542/peds.2013-1759>
- Byington, C. L., Kendrick, J., & Sheng, X. (2011). Normative cerebrospinal fluid profiles in febrile infants. *The Journal of pediatrics*, 158(1), 130–134. <https://doi.org/10.1016/j.jpeds.2010.07.022>
- Cruz, A. T., Mahajan, P., Bonsu, B. K., Bennett, J. E., Levine, D. A., Alpern, E. R., Nigrovic, L. E., Atabaki, S. M., Cohen, D. M., VanBuren, J. M., Ramilo, O., Kuppermann, N., & Febrile Infant Working Group of the Pediatric Emergency Care Applied Research Network (2017). Accuracy of Complete Blood Cell Counts to Identify Febrile Infants 60 Days or Younger With Invasive Bacterial Infections. *JAMA pediatrics*, 171(11), e172927. <https://doi.org/10.1001/jamapediatrics.2017.2927>
- Greenhow, T. L., Hung, Y. Y., Herz, A. M., Losada, E., & Pantell, R. H. (2014). The changing epidemiology of serious bacterial infections in young infants. *The Pediatric infectious disease journal*, 33(6), 595–599. <https://doi.org/10.1097/INF.0000000000000225>
- Gomez, B., Mintegi, S., Bressan, S., Da Dalt, L., Gervaix, A., Lacroix, L., & European Group for Validation of the Step-by-Step Approach (2016). Validation of the "Step-by-Step" Approach in the Management of Young Febrile Infants. *Pediatrics*, 138(2), e20154381. <https://doi.org/10.1542/peds.2015-4381>
- McGowan, K. L., Foster, J. A., & Coffin, S. E. (2000). Outpatient pediatric blood cultures: time to positivity. *Pediatrics*, 106(2 Pt 1), 251–255. <https://doi.org/10.1542/peds.106.2.251>
- Milcent, K., Faesch, S., Gras-Le Guen, C., Dubos, F., Poualhon, C., Badier, I., Marc, E., Laguille, C., de Pontual, L., Mosca, A., Nissack, G., Biscardi, S., Le Hors, H., Louillet, F., Dumitrescu, A. M., Babe, P., Vauloup-Fellous, C., Bouyer, J., & Gajdos, V. (2016). Use of Procalcitonin Assays to Predict Serious Bacterial Infection in Young Febrile Infants. *JAMA pediatrics*, 170(1), 62–69. <https://doi.org/10.1001/jamapediatrics.2015.3210>
- Mintegi, S., Gomez, B., Martinez-Virumbrales, L., Morientes, O., & Benito, J. (2017). Outpatient management of selected young febrile infants without antibiotics. *Archives of disease in childhood*, 102(3), 244–249. <https://doi.org/10.1136/archdischild-2016-310600>
- Morley, E. J., Lapoint, J. M., Roy, L. W., Cantor, R., Grant, W. D., Paolo, W. F., & Wojcik, S. (2012). Rates of positive blood, urine, and cerebrospinal fluid cultures in children younger than 60 days during the vaccination era. *Pediatric emergency care*, 28(2), 125–130. <https://doi.org/10.1097/PEC.0b013e318243fa50>
- Pantell, R. H., Roberts, K. B., Adams W. G., Dreyer B. P., Kupperman N., O'Leary, S. T., Okechukwu, K., Woods, C. R., Byington C. L., Lavelle J. M., Lye P. S., Macy M. L., Munoz F. M., Nelson C. E., Pearson S. J., Powell K. R., Teichman J.S. (2021). Evaluation and Management of Well-Appearing Febrile Infants 8 to 60 Days Old. *Pediatrics*, 148(2). <https://doi.org/10.1542/peds.2021-052228>

Pantell, R. H., Roberts, K. B., Greenhow, T. L., & Pantell, M. S. (2018). Advances in the Diagnosis and Management of Febrile Infants: Challenging Tradition. *Advances in pediatrics*, 65(1), 173–208.

<https://doi.org/10.1016/j.yapd.2018.04.012>

Yankova, L. C., Neuman, M. I., Wang, M. E., Woll, C., DePorre, A. G., Desai, S., Sartori, L. F., Nigrovic, L. E., Pruitt, C. M., Marble, R. D., Leazer, R. C., Rooholamini, S. N., Balamuth, F., & Aronson, P. L. (2020). Febrile Infants ≤60 Days Old With Positive Urinalysis Results and Invasive Bacterial Infections. *Hospital pediatrics*, 10(12), 1120–1125. <https://doi.org/10.1542/hpeds.2020-000638>