



## Recognition and Management of Sepsis

### Evidence Update (June 2019)

#### Journal Publications:

##### Hydrocortisone plus Fludrocortisone for Adults with Septic Shock.

ANNANE, D., et al, 2018. *The New England journal of medicine*, 378(9), pp. 809-818.

[\[OPENATHENS ACCESS\]](#)

##### Identifying Patients at Risk for Sepsis

BRIDGES, E. and GRECO, S., 2018. *Critical Care Nurse*, 38(6), pp. 72-74.

[\[AVAILABLE IN THE LIBRARY\]](#)

##### Sepsis and septic shock

CECCONI, M., EVANS, L., LEVY, M. and RHODES, A., 2018. *The Lancet*, 392(10141), pp. 75-87.

[\[OPENATHENS ACCESS\]](#)

##### Challenges in the management of septic shock: a narrative review

DE BACKER, D., CECCONI, M., LIPMAN, J., MACHADO, F., MYATRA, S.N., OSTERMANN, M., PERNER, A., TEBOUL, J., JEAN-LOUIS, V. and WALLEY, K.R., 2019. *Intensive care medicine*, 45(4), pp. 420-433.

[\[OPENATHENS ACCESS\]](#)

##### Computer-aided National Early Warning Score to predict the risk of sepsis following emergency medical admission to hospital: a model development and external validation study

FAISAL, M., RICHARDSON, D., SCALLY, A.J., HOWES, R., BEATSON, K., SPEED, K. and MOHAMMED, M.A., 2019 *CMAJ : Canadian Medical Association journal*, 191(14), pp. E382-E389.

[\[OPEN ACCESS\]](#)

##### Association of corticosteroid treatment with outcomes in adult patients with sepsis: a systematic review and meta-analysis

FANG, F., M.D., ZHANG, Y., M.D., TANG, J., B.S., LUNSFORD, L.D., LI, T., M.D., TANG, R., M.D., HE, J., M.B., XU, P., M.SC, FARAMAND, A., M.D., XU, J., M.D. and YOU, C., M.D., 2019. Association of Corticosteroid Treatment With Outcomes in Adult Patients With Sepsis: A Systematic Review and Meta-analysis. *JAMA Internal Medicine*, 179(2), pp. 213. [\[ABSTRACT\]](#)

##### Sepsis: The evolution in definition, pathophysiology, and management.

GYAWALI, B., RAMAKRISHNA, K. and DHAMOON, A.S., 2019 *SAGE open medicine*, 7, pp. 2050312119835043.

[\[OPEN ACCESS\]](#)

##### Sepsis: An Update on Current Practices in Diagnosis and Management

JAIN, S., 2018. *The American Journal of the Medical Sciences*, 356(3), pp. 277-286.

[\[ABSTRACT\]](#)

##### Sepsis: Early Recognition and Optimized Treatment

KIM, H.I. and PARK, S., 2019.. *Tuberculosis and respiratory diseases*, 82(1), pp. 6-14.

[\[OPEN ACCESS\]](#)

##### The Surviving Sepsis Campaign Bundle: 2018 Update.

LEVY, M.M., EVANS, L.E. and RHODES, A., 2018 *Critical Care Medicine*, 46(6), pp. 997-1000.

[\[OPENATHENS ACCESS\]](#)



**A meta-analysis of randomized controlled trials: Efficacy of selenium treatment for sepsis**

LI, S., TANG, T., GUO, P., ZOU, Q., AO, X., HU, L. and TAN, L., 2019. *Medicine*, 98(9), pp. 1.

[\[OPEN ACCESS\]](#)

**Enhancing Recovery From Sepsis: A Review:**

PRESCOTT, HALLIE C,M.D., M.SC and ANGUS, DEREK C,M.D., M.P.H., 2018. The Journal of the American Medical Association. *JAMA*, 319(1), pp. 62.

[\[OPEN ACCESS\]](#)

**Effect of a Recombinant Human Soluble Thrombomodulin on Mortality in Patients With Sepsis-Associated Coagulopathy: The SCARLET Randomized Clinical Trial**

VINCENT, J., et al, T.G., 2019. The Journal of the American Medical Association, *JAMA*,

[\[AVAILABLE IN THE LIBRARY\]](#)

**Non-antibiotic therapies for sepsis: an update**

VINCENT, J. and MONGKOLPUN, W., 2019. *Expert review of anti-infective therapy*, 17(3), pp. 169-175

[\[ABSTRACT\]](#)

**Efficacy of dexmedetomidine for treatment of patients with sepsis: A meta-analysis of randomized controlled**

ZHANG, W., XU, P., ZHAN, X., ZHENG, P. and YANG, W., 2019. *trials. Medicine*, 98(18), pp. 1.

[\[OPEN ACCESS\]](#)

## **Guidelines:**

**Corticosteroid therapy for sepsis: a clinical practice guideline**

LAMONTAGNE, F., et al, 2018. *C. BMJ (Clinical research ed.)*, 362, pp. 1.

[\[OPEN ACCESS\]](#)

**Management of Neonates Born at  $\leq 34$  6/7 Weeks' Gestation With Suspected or Proven Early-Onset Bacterial Sepsis.**

PUOPOLO, K.M., BENITZ, W.E. and ZAOUTIS, T.E., 2018, *Pediatrics*, 142(6), pp. 1.

[\[OPEN ACCESS\]](#)

**The Japanese Clinical Practice Guidelines for Management of Sepsis and Septic Shock**

NISHIDA, O., et al, 2018. 2016

[\[OPEN ACCESS\]](#)

## **New and Updated Cochrane Reviews:**

**Enteral lactoferrin for the treatment of sepsis and necrotizing enterocolitis in neonates.**

Pammi M, Abrams SAPammi M, Abrams SA , Cochrane Database of Systematic Reviews2019, Issue 5. Art. No.: CD007138.DOI: 10.1002/14651858.CD007138.pub4 [\[VIEW\]](#)



**Plasma interleukin-6 concentration for the diagnosis of sepsis in critically ill adults**

Molano Franco D, Arevalo-Rodriguez I, Roqué i Figuls M, Montero Oleas NG, Nuvials X, Zamora J. Cochrane Database of Systematic Reviews 2019, Issue 4. Art. No.: CD011811. DOI: 10.1002/14651858.CD011811.pub2 [\[VIEW\]](#)

**Liberal versus conservative fluid therapy in adults and children with sepsis or septic shock.**

Li D, Li X, Cui W, Shen H, Zhu H, Xia Y. Cochrane Database of Systematic Reviews 2018, Issue 12. Art. No.: CD010593. DOI: 10.1002/14651858.CD010593.pub2 [\[VIEW\]](#)

**Automated monitoring compared to standard care for the early detection of sepsis in critically ill patients.**

Warttig S, Alderson P, Evans DJW, Lewis SR, Kourbeti IS, Smith AF. Cochrane Database of Systematic Reviews 2018, Issue 6. Art. No.: CD012404. DOI: 10.1002/14651858.CD012404.pub2. [\[VIEW\]](#)

## NIHR Signals:

**Ethanol locks in catheters for dialysis may prevent sepsis**

(25 September 2018) [\[VIEW\]](#)

**Adding the extra antibiotic rifampicin did not improve cure rates after sepsis**

(17 April 2018) [\[VIEW\]](#)

**Intravenous antibiotics, administered over 3 hours, are linked to lower death rates in sepsis**

(31 January 2018) [\[VIEW\]](#)

**Blood test could shorten antibiotic treatment in newborns with suspected sepsis**

(28 November 2017) [\[VIEW\]](#)

## Reports & Resources:

**Reducing the impact of serious infections CQUIN 2018/19 – NHS Improvement**

**Suspicion of Sepsis (SOS) insights Dashboard – NHS England**

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