

DAFTAR PUSTAKA

- Abebe, Y., Gashaw, A., & Demissie, R., 2025. Burden and Determinants of Puerperal Sepsis in Ethiopia: a Systematic Review and Meta-analysis. *Eur. J. Med. Res.* 30: 915. doi:10.1186/S40001-025-03138-6
- Abera, B.T., Teka, H., Gebre, D., Gebremariam, T., Berhe, E., Gidey, H., et al., 2024. Maternal Sepsis and Factors Associated with Poor Maternal Outcomes in a Tertiary Hospital in Tigray, Ethiopia: a Retrospective Chart Review. *BMC Infect. Dis.* 24. doi:10.1186/s12879-024-09075-9
- ACOG, 2019. ACOG Practice Bulletin No. 211: Critical Care in Pregnancy. *Obstet. Gynecol.* 133: E303–E319. doi:10.1097/AOG.0000000000003241
- Acosta, C.D., Harrison, D.A., Rowan, K., Lucas, D.N., Kurinczuk, J.J., & Knight, M., 2016. Maternal Morbidity and Mortality from Severe Sepsis: a National Cohort Study. *BMJ Open* 6. doi:10.1136/BMJOPEN-2016-012323
- Admas, A., Gelaw, B., Belaytessema, Worku, A., & Melese, A., 2020. Proportion of Bacterial Isolates, their Antimicrobial Susceptibility Profile and Factors Associated with Puerperal Sepsis among Post-Partum/Aborted Women at a Referral Hospital in Bahir Dar, Northwest Ethiopia. *Antimicrob. Resist. Infect. Control* 9: 14. doi:10.1186/S13756-019-0676-2
- Al-Ostad, G., Kezouh, A., Spence, A.R., & Abenhaim, H.A., 2015. Incidence and Risk factors of Sepsis mortality in Labor, Delivery and After Birth: Population-Based Study in the USA. *J. Obstet. Gynaecol. Res.* 41: 1201–1206. doi:10.1111/JOG.12710
- Baguiya, A., Bonet, M., Brizuela, V., Cuesta, C., Knight, M., Lumbiganon, P., et al., 2024. Infection-Related Severe Maternal Outcomes and Case Fatality Rates in 43 Low and Middle-Income Countries across the WHO Regions: Results from the Global Maternal Sepsis Study (GLOSS). *PLOS Glob. Public Heal.* 4: e0003109. doi:10.1371/JOURNAL.PGPH.0003109
- Balki, I., Baghirzada, L., Walker, A., Lapinsky, S., & Balki, M., 2022. Incidence, Morbidity, and Associated Factors for Sepsis in Women Hospitalized for Delivery: a Nationwide Retrospective Observational Population-Based Study in Canada. *Can. J. Anesth.* 69: 298–310. doi:10.1007/S12630-021-02158-0/TABLES/5
- Bauer, M.E., Housey, M., Bauer, S.T., Behrmann, S., Chau, A., Clancy, C., et al., 2019. Risk Factors, Etiologies, and Screening Tools for Sepsis in Pregnant Women: A Multicenter Case-Control Study. *Anesth. Analg.* 129: 1613–1620. doi:10.1213/ANE.0000000000003709
- Bishaw, K.A., Sharew, Y., Beka, E., Aynalem, B.Y., Zeleke, L.B., Desta, M., et al., 2023. Incidence and Predictors of Puerperal Sepsis among Postpartum Women at Debre Markos Comprehensive Specialized Hospital, Northwest Ethiopia: A Prospective Cohort Study. *Front. Glob. Women's Heal.* 4.

doi:10.3389/FGWH.2023.966942

- Bitsadze, V.O., Sukontseva, T.A., Akinshina, S. V., Sulina, Y.Y., Khizroeva, J.K., Tretyakova, M. V., et al., 2020. Septic Shock. *Obstet. Gynecol. Reprod.* 14: 314–326. doi:10.17749/2313-7347/OB.GYN.REP.2020.169
- Bonet, M., Brizuela, V., Abalos, E., Cuesta, C., Baguiya, A., Chamillard, M., et al., 2020. Frequency and Management of Maternal Infection in Health Facilities in 52 Countries (GLOSS): a 1-Week Inception Cohort Study. *Lancet Glob. Heal.* 8: e661–e671. doi:10.1016/S2214-109X(20)30109-1
- Brizuela, V., Cuesta, C., Bartolelli, G., Abdosh, A.A., Abou Malham, S., Assarag, B., et al., 2021. Availability of Facility Resources and Services and Infection-Related Maternal Outcomes in the WHO Global Maternal Sepsis Study: a Cross-Sectional Study. *Lancet Glob. Heal.* 9: e1252–e1261. doi:10.1016/S2214-109X(21)00248-5
- Bromiker, R., Elron, E., & Klinger, G., 2020. Do Neonatal Infections Require a Positive Blood Culture? *Am. J. Perinatol.* 37: S18–S21. doi:10.1055/s-0040-1714079
- Caraballo, C., Ascuntar, J., Hincapié, C., Restrepo, C., Bernal, E., & Jaimes, F., 2019. Association between Site of Infection and in-Hospital Mortality in Patients with Sepsis Admitted to Emergency Departments of Tertiary Hospitals in Medellin, Colombia. *Rev. Bras. Ter. Intensiva* 31: 47–56. doi:10.5935/0103-507X.20190011
- Cecconi, M., Evans, L., Levy, M., & Rhodes, A., 2018. Sepsis and Septic Shock. *Lancet* 392: 75–87. doi:10.1016/S0140-6736(18)30696-2
- Chapuma, C., Twabi, H.H., Monk, E.J.M., Jafali, J., Weeks, A., Beales, E., et al., 2024. The Aetiology and Antimicrobial Resistance of Bacterial Maternal Infections in Sub-Saharan Africa—a Systematic Review and Meta-analysis. *BMC Infect. Dis.* 24: 1–15. doi:10.1186/S12879-024-09855-3/FIGURES/9
- Chen, H.H., Wu, C.L., & Chao, W.C., 2024. Analysis of the Impact of Maternal Sepsis on Pregnancy Outcomes: a Population-based Retrospective Study. *BMC Pregnancy Childbirth* 24: 1–10. doi:10.1186/S12884-024-06607-8/TABLES/5
- Chimwaza, Y., Hunt, A., Oliveira-Ciabati, L., Bonnett, L., Abalos, E., Cuesta, C., et al., 2025. Early Warning Systems for Identifying Severe Maternal Outcomes: Findings from the WHO Global Maternal Sepsis Study. *eClinicalMedicine* 79. doi:10.1016/j.eclinm.2024.102981
- Conwell, J., Ayyash, M., Singh, H.K., Goffman, D., & Ranard, B.L., 2024. Physiologic Changes of Pregnancy and Considerations for Screening and Diagnosis of Sepsis. *Semin. Perinatol.* 48: 151973. doi:10.1016/J.SEMPERI.2024.151973
- Cresswell, J.A., Alexander, M., Chong, M.Y.C., Link, H.M., Pejchinovska, M.,

- Gazeley, U., et al., 2025. Global and Regional Causes of Maternal deaths 2009–20: a WHO Systematic Analysis. *Lancet Glob. Heal.* 13: e626–e634. doi:10.1016/S2214-109X(24)00560-6
- Denoble, A.E., Wu, J., Mitchell, C.J., Hughes, B.L., & Dotters-Katz, S.K., 2020. Chorioamnionitis Versus Intraamniotic Infection among Preterm Deliveries—is Postpartum Infectious Morbidity Different? *Am. J. Obstet. Gynecol. MFM* 2. doi:10.1016/j.ajogmf.2020.100176
- Diana, S., Wahyuni, C.U., & Prasetyo, B., 2020. Maternal Complications and Risk Factors for Mortality. *J. Public health Res.* 9: 195–198. doi:10.4081/JPHR.2020.1842
- Dinas Kesehatan DIY, 2025. Profil Kesehatan Daerah Istimewa Yogyakarta Tahun 2024, Dinas Kesehatan Daerah Istimewa Yogyakarta.
- Dinas Kesehatan DIY, 2024. Profil Kesehatan Daerah Istimewa Yogyakarta Tahun 2023.
- Escobar-Vidarte, M.F., Fernandez, P.A., Galindo, J.S., Valencia-Orozco, A., Libreros-Peña, L., Peña-Zarate, E.E., et al., 2025. Factors Associated with Infection-Related Severe Maternal Outcomes in Pregnant and Recently Pregnant Women: A Secondary Analysis of the WHO Global Maternal Sepsis Study. *Int. J. Gynecol. Obstet.* 168: 259–268. doi:10.1002/IJGO.15857
- Evans, L., Rhodes, A., Alhazzani, W., Antonelli, M., Coopersmith, C.M., French, C., et al., 2021. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock 2021. *Intensive Care Med.* 47: 1181–1247. doi:10.1007/S00134-021-06506-Y
- Faix, J.D., 2013. Biomarkers of Sepsis. *Crit. Rev. Clin. Lab. Sci.* 50: 23–36. doi:10.3109/10408363.2013.764490
- Fan, S.R., Liu, P., Yan, S.M., Huang, L., & Liu, X.P., 2020. New Concept and Management for Sepsis in Pregnancy and the Puerperium. *Matern. Med.* 2: 231–239. doi:10.1097/FM9.0000000000000058
- Foeller, M.E., & Gibbs, R.S., 2019. Maternal Sepsis: New Concepts, New Practices. *Curr. Opin. Obstet. Gynecol.* 31: 90–96. doi:10.1097/GCO.0000000000000523
- Gadisa, E., Egyir, B., Adu, B., Ahmed, H., Disasa, G., & Tessema, T.S., 2024. Epidemiology, Antimicrobial Resistance Profile and Management of Carbapenem-Resistant *Klebsiella pneumoniae* among Mothers with Suspected Sepsis in Ethiopia. *Ann. Clin. Microbiol. Antimicrob.* 23: 1–13. doi:10.1186/S12941-024-00745-9/FIGURES/4
- Galvão, A., Braga, A.C., Gonçalves, D.R., Guimarães, J.M., & Braga, J., 2016. Sepsis during Pregnancy or the Postpartum Period. *J. Obstet. Gynaecol.* 36: 735–743. doi:10.3109/01443615.2016.1148679

- Görgün, S., & Usanmaz, M., 2022. Evaluation of Blood Culture Results in Hemodialysis Patients. *Turk Hij. ve Deney. Biyol. Derg.* 79: 443–450. doi:10.5505/TurkHijyen.2022.93798
- Greer, O., Mohan Shah, N., Johnson, M.R., & Johnson, M.R., 2020. Maternal Sepsis Update: Current Management and Controversies. *Obstet. Gynaecol.* 22: 45–55. doi:10.1111/TOG.12623
- Guo, J., Wu, Y., Li, H., Deng, W., Lai, W., Gu, C., et al., 2023. Evaluation of Microbiological Epidemiology and Clinical Characteristics of Maternal Bloodstream Infection: a 10 Years Retrospective Study. *Front. Microbiol.* 14: 1332611. doi:10.3389/FMICB.2023.1332611/BIBTEX
- Hazra, A., 2017. Using the Confidence Interval Confidently. *J. Thorac. Dis.* 9: 4125–4130. doi:10.21037/jtd.2017.09.14
- Hensley, M.K., Bauer, M.E., Admon, L.K., & Prescott, H.C., 2019. Incidence of Maternal Sepsis and Sepsis-Related Maternal Deaths in the United States. *JAMA* 322: 890–892. doi:10.1001/JAMA.2019.9818
- Hu, Q., Wang, L., Chen, Q., & Wang, Z., 2025. The Global, Regional, and National Burdens of Maternal Sepsis and Other Maternal Infections and Trends from 1990 to 2021 and Future Trend Predictions: Results from the Global Burden of Disease Study 2021. *BMC Pregnancy Childbirth* 25: 1–15. doi:10.1186/S12884-025-07409-2/FIGURES/7
- Indarti, J., Solihin, A., V. Suastika, A., Wardhani, D.P., Ramadhani, M.T., Afdi, Q.F., et al., 2021. Three-Delay Model on Maternal Mortality Cases in Tertiary Referral Hospital in Indonesia. *eJournal Kedokt. Indones.* 9: 99. doi:10.23886/EJKI.9.60.99
- Irwinda, R., Wibowo, N., & Prameswari, N., 2021. Cytokines Storm in COVID-19 with Dengue Co-Infection in Pregnancy: Fatal Maternal and Fetal Outcome. *IDCases* 26. doi:10.1016/j.idcr.2021.e01284
- Islamy, N., Alamsyah Aziz, M., Yonata, A., Lumentut, A.M., Maelissa, M.M., Khaerunnisa, M., et al., 2025. Sepsis and Septic Shock in Pregnancy. *J. La Medihealtico* 6: 256–268. doi:10.37899/JOURNALLAMEDIHEALTICO.V6I2.1863
- Joseph, J., Sinha, A., Paech, M., & Walters, B.N.J., 2009. Sepsis in Pregnancy and Early Goal-directed Therapy. *Obstet. Med.* 2: 93. doi:10.1258/OM.2009.090024
- Kankuri, E., Kurki, T., Carlson, P., & Hiilesmaa, V., 2003. Incidence, treatment and outcome of peripartum sepsis. *Acta Obstet. Gynecol. Scand.* 82: 730–735. doi:10.1034/j.1600-0412.2003.00265.x
- Kayali, S., 2025. Analysis of Blood Culture Results between 2019-2022 in Bayburt Province. *Turk Hij. ve Deney. Biyol. Derg.* 82: 401–408. doi:10.5505/TurkHijyen.2025.75301

- Kim, J. sung, Kim, Y.J., & Kim, W.Y., 2021. Characteristics and Clinical Outcomes of Culture-Negative and Culture-Positive Septic Shock: a Single-Center Retrospective Cohort Study. *Crit. Care* 25. doi:10.1186/s13054-020-03421-4
- Kiponza, R., Balandya, B., Majigo, M. V., & Matee, M., 2019. Laboratory Confirmed Puerperal Sepsis in a National Referral Hospital in Tanzania: Etiological Agents and their Susceptibility to Commonly Prescribed Antibiotics. *BMC Infect. Dis.* 19: 1–7. doi:10.1186/S12879-019-4324-5/TABLES/5
- Knowles, S.J., O’Sullivan, N.P., Meenan, A.M., Hanniffy, R., & Robson, M., 2015a. Maternal Sepsis Incidence, Aetiology and Outcome for Mother and Fetus: A Prospective Study. *BJOG An Int. J. Obstet. Gynaecol.* 122: 663–671. doi:10.1111/1471-0528.12892
- Knowles, S.J., O’Sullivan, N.P., Meenan, A.M., Hanniffy, R., & Robson, M., 2015b. Maternal sepsis incidence, aetiology and outcome for mother and fetus: A prospective study. *BJOG An Int. J. Obstet. Gynaecol.* 122: 663–671. doi:10.1111/1471-0528.12892
- Kumar, Anand, Roberts, D., Wood, K.E., Light, B., Parrillo, J.E., Sharma, S., et al., 2006. Duration of Hypotension before Initiation of Effective Antimicrobial Therapy is the Critical Determinant of Survival in Human Septic Shock. *Crit. Care Med.* 34: 1589–1596. doi:10.1097/01.CCM.0000217961.75225.E9
- Kumar, N., & Yadav, A., 2020. Puerperal Sepsis and Maternal Outcome in Developing Countries: an Observational Study. *Int. J. Community Med. Public Heal.* 7: 4978. doi:10.18203/2394-6040.IJCMPH20205173
- Kvalvik, S.A., Zakariassen, S.B., Overrein, S., Rasmussen, S., Skrede, S., & Baghestan, E., 2024. Obstetric Infections and Clinical Characteristics of Maternal Sepsis: a Hospital-based Retrospective Cohort Study. *Sci. Rep.* 14: 1–12. doi:10.1038/S41598-024-56486-4;SUBJMETA
- Lafon, J.Y., Buga, E.C., & Nethathe, G.D., 2021. Characteristics and Outcomes of Obstetric Patients with Maternal Sepsis Requiring Admission to a South African Intensive Care Unit: A Retrospective Review. *S. Afr. J. Obstet. Gynaecol.* 26. doi:10.7196/sajog.1635
- Levy, M.M., Evans, L.E., & Rhodes, A., 2018. The Surviving Sepsis Campaign Bundle: 2018 update. *Intensive Care Med.* 44: 925–928. doi:10.1007/S00134-018-5085-0
- Li, Y., Guo, J., Yang, H., Li, H., Shen, Y., & Zhang, D., 2021. Comparison of Culture-Negative and Culture-Positive Sepsis or Septic Shock: a Systematic Review and Meta-Analysis. *Crit. Care* 25. doi:10.1186/s13054-021-03592-8
- Lim, M.J., Lakshminrusimha, S., Hedriana, H., & Albertson, T., 2023. Pregnancy and Severe ARDS with COVID-19: Epidemiology, Diagnosis, Outcomes and Treatment. *Semin. Fetal Neonatal Med.* 28: 101426.

doi:10.1016/j.siny.2023.101426

- Lin, G.L., McGinley, J.P., Drysdale, S.B., & Pollard, A.J., 2018. Epidemiology and Immune Pathogenesis of Viral Sepsis. *Front. Immunol.* 9. doi:10.3389/fimmu.2018.02147
- Lin, L., Ren, L.W., Li, X.Y., Sun, W., Chen, Y.H., Chen, J.S., et al., 2021. Evaluation of the Etiology and Risk factors for Maternal Sepsis: A single Center Study in Guangzhou, China. *World J. Clin. Cases* 9: 7704–7716. doi:10.12998/WJCC.V9.I26.7704
- Lin, Y., Lai, J., Li, P., & Zheng, Z., 2025. Clinical Study of Early-Onset Sepsis in Neonates Delivered to Mothers with Cervical Insufficiency. *Chinese J. Neonatol.* 40: 402–406. doi:10.3760/cma.j.cn101451-20241214-00424
- Lingzhi, L., Jinrong, W., Pan, G., Shufen, G., Liye, S., Wei, G., et al., 2019. Etiological Analysis of 61.286 Hospitalized Specimens from a Tertiary Hospital over 5 Years. *Chinese Crit. Care Med.* 31: 629–632. doi:10.3760/cma.j.issn.2095-4352.2019.05.021
- Lissauer, D., Morgan, M., Banerjee, A., Plaat, F., & Pasupathy, D., 2025. Identification and Management of Maternal Sepsis During and Following Pregnancy. *BJOG An Int. J. Obstet. Gynaecol.* 132: e61–e85. doi:10.1111/1471-0528.18009
- Liu, L.Y., Wen, T., Reddy, U.M., Mourad, M., Goffman, D., Nathan, L., et al., 2024. Risk Factors, Trends, and Outcomes Associated With Postpartum Sepsis Readmissions. *Obstet. Gynecol.* 143: 346–354. doi:10.1097/AOG.0000000000005437
- Liu, P., Zhang, X., Wang, X., Liang, Y., Wei, N., Xiao, Z., et al., 2023. Maternal Sepsis in Pregnancy and the Puerperal Periods: a Cross-Sectional Study. *Front. Med.* 10: 1126807. doi:10.3389/FMED.2023.1126807/BIBTEX
- Lu, H., Cao, Y., & Zhong, M., 2023. No Causal Association between COVID-19 and Sepsis: a Bidirectional Two-Sample Mendelian Randomization Study. *Front. Immunol.* 14. doi:10.3389/fimmu.2023.1183489
- Maswime, S., & Buga, E., 2021. Surviving Maternal Sepsis in Low-Income Countries. *Lancet Glob. Heal.* 9: e1183–e1184. doi:10.1016/S2214-109X(21)00294-1
- Nair, M., Nelson-Piercy, C., & Knight, M., 2017. Indirect Maternal Deaths: UK and Global Perspectives. *Obstet. Med.* 10: 10–15. doi:10.1177/1753495X16689444
- Nayak, A.H., & Khade, S.A., 2022. Obstetric Sepsis: a Review Article. *J. Obstet. Gynecol. India* 72: 470–478. doi:10.1007/S13224-022-01706-Y/TABLES/4
- Noora, C.L., Manu, A., Addo-Lartey, A., Mohammed, A.G., Ameme, D.K., Kenu, E., et al., 2022. Incidence and Determinants of Maternal Sepsis in Ghana in

the Midst of a Pandemic. *BMC Pregnancy Childbirth* 22. doi:10.1186/S12884-022-05182-0

Oeser, C., Pond, M., Butcher, P., Russell, A.B., Henneke, P., Laing, K., et al., 2023. PCR for the Detection of Pathogens in Neonatal Early Onset Sepsis, in: *Advances in Medical Imaging, Detection, and Diagnosis*. Jenny Stanford Publishing, pp. 873–889. doi:10.1201/9781003298038-29

Orak, F., Guven, H., Ates, S., Doganer, A., & Baylan, F.A., 2021. Evaluation of Flora Bacteria Grown in Blood Cultures: Are They Etiologic Agent of Infection or Only Contaminants? *Bangladesh J. Med. Sci.* 20: 288–292. doi:10.3329/bjms.v20i2.51537

Ornaghi, S., Maraschini, A., Buoncristiano, M., Corsi Decenti, E., Colciago, E., Cetin, I., et al., 2023. Maternal Sepsis in Italy: A Prospective, Population-Based Cohort and Nested Case-Control Study. *Microorganisms* 11. doi:10.3390/MICROORGANISMS11010105

Otu, A., Nsutebu, E.F., Hirst, J.E., Thompson, K., Walker, K., & Yaya, S., 2020. How to Close the Maternal and Neonatal Sepsis Gap in Sub-Saharan Africa. *BMJ Glob. Heal.* 5. doi:10.1136/BMJGH-2020-002348

Parveen, R., Sultana, H., & Nazir, S., 2025. Maternal Sepsis and Associated Factors: A Multi-Central Study from Two Tertiary Care Hospitals of South Punjab, Pakistan. *Pakistan J. Med. Sci.* 41: 281–285. doi:10.12669/pjms.41.1.10423

Peduzzi, P., Concato, J., Kemper, E., Holford, T.R., & Feinstein, A.R., 1996. A Simulation Study of the Number of Events Per Variable in Logistic Regression Analysis. *J. Clin. Epidemiol.* 49: 1373–1379. doi:10.1016/S0895-4356(96)00236-3

Phelan, J.P., 2024. Fetal Considerations in the Critically Ill Gravida. *Crit. Care Obstet. Seventh Ed.* 133–161. doi:10.1002/9781119820260.CH8

Powell, J., Crowley, C.M., Minihan, B., Imcha, M., O’Connell, N.H., Philip, R.K., et al., 2023. The Microbial Pathology of Maternal Perinatal Sepsis: A Single-Institution Retrospective Five-Year Review. *PLoS One* 18: e0295210. doi:10.1371/JOURNAL.PONE.0295210

Prescott, H.C., Antonelli, M., Alhazzani, W., Möller, M.H., Alshamsi, F., Azevedo, L.C.P., et al., 2026. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock 2026. *Intensive Care Med.* 2026 1–74. doi:10.1007/S00134-026-08361-1

Prihesti, U.S., Siti Nurdianti, D., Ganap, E.P., Obstetri, D., Ginekologi, D., Kedokteran, F., et al., 2019. Tren dan Faktor Risiko Kematian Maternal di RSUP Dr.Sardjito Yogyakarta tahun 2012-2017. *J. Kesehat. Reproduksi* 6: 44–51. doi:10.22146/jkr.46609

Quihui, L., Valencia, M.E., Crompton, D.W.T., Phillips, S., Hagan, P., Morales, G.,

- et al., 2006. Role of the Employment Status and Education of Mothers in the Prevalence of Intestinal Parasitic Infections in Mexican Rural School Children. *BMC Public Health* 6. doi:10.1186/1471-2458-6-225
- Qureshi, R.N., Sikandar, R., Hoodbhoy, Z., Bano, R., & Jabeen, N., 2016. Referral Pattern of Emergencies in Obstetrics: Implications for Defining Scope of Services and Policy. *J. Pak. Med. Assoc.*
- Respati, S.H., Taufiq, A.C., & Sulistyowati, S., 2018. Determinant Factors Affecting Maternal Death in Boyolali District. *J. South Asian Fed. Obstet. Gynaecol.* 10: 149–153. doi:10.5005/jp-journals-10006-1579
- Rhodes, A., Evans, L.E., Alhazzani, W., Levy, M.M., Antonelli, M., Ferrer, R., et al., 2017. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. *Intensive Care Med.* 43: 304–377. doi:10.1007/S00134-017-4683-6/TABLES/6
- Ribeiro-do-Valle, C.C., Bonet, M., Brizuela, V., Abalos, E., Baguiya, A., Bellissimo-Rodrigues, F., et al., 2024a. Aetiology and Use of Antibiotics in Pregnancy-Related Infections: Results of the WHO Global Maternal Sepsis Study (GLOSS), 1-Week Inception Cohort. *Ann. Clin. Microbiol. Antimicrob.* 23: 1–12. doi:10.1186/S12941-024-00681-8/FIGURES/3
- Ribeiro-do-Valle, C.C., Luz, A.G., Pacagnella, R.C., & Cecatti, J.G., 2024b. Surviving Maternal Sepsis: Clinical, Laboratory, and Treatment Features. *Int. J. Gynecol. Obstet.* 166: 753–759. doi:10.1002/IJGO.15440
- Rizal, M.M., Pranadyan, R., Izza, A., Dharmayanti, H.E., Habibie, P.H., & Author, +1, 2025. Exploring the Factors Leading to Tiered Referrals of Pregnant Women until Tertiary Healthcare Facilities: An in-depth Analysis. *Med. J. Malaysia.*
- Robinson, A., 2005. Assessing microbiology test orders and specimen quality. *Clin. Microbiol. Newsl.* 27: 78–82. doi:10.1016/S0196-4399(05)80030-3
- Rosales, J., Ireland, M., Gonzalez-Gallo, K., Wisler, J., & Jalilvand, A., 2023. Characterization of Mortality by Sepsis Source in Patients Admitted to the Surgical Intensive Care Unit. *J. Surg. Res.* 283: 1117–1123. doi:10.1016/j.jss.2022.10.096
- Saadeddin, A.A., Amara, U.E., Nashrah, U., Almulla, B.A., Ummunnisa, F., & Shaikh, N., 2024. Sepsis and Septic Shock in the Peripartum Period, in: Updates in Intensive Care of OBGY Patients. Springer Nature, pp. 27–48. doi:10.1007/978-981-99-9577-6_3
- Salinas, M., 2022. Pathophysiology and Causes of Maternal Sepsis. doi:10.35248/2329-8790.22.10.489
- Sari, S.K., Dahesihdewi, A., & Sianipar, O., 2023. Blood Culture Positivity Rate: Antibiotic Therapy Impact Before Sample Collection in Sepsis Patients. *Indones. J. Clin. Pathol. Med. Lab.* 29: 250–255.

doi:10.24293/ijcpml.v29i3.2016

- Say, L., Chou, D., Gemmill, A., Tunçalp, Ö., Moller, A.B., Daniels, J., et al., 2014. Global Causes of Maternal Death: a WHO Systematic Analysis. *Lancet Glob. Heal.* 2: e323–e333. doi:10.1016/S2214-109X(14)70227-X
- Sen, N., Matthias, A., & Raj, J., 2006. Role of Critical Care in Urological Sepsis. *Indian J. Urol.* 22: 105–112. doi:10.4103/0970-1591.26562
- Shabil, M., Khatib, M.N., Zahiruddin, Q.S., Rekha, M.M., Kaur, M., Rani, B., et al., 2024. Dengue Infection During Pregnancy and Adverse Birth Outcomes: A Systematic Review and Meta-Analysis. *Rev. Med. Virol.* 34. doi:10.1002/rmv.2582
- Shah, N.M., Charani, E., Ming, D., Cheah, F.C., & Johnson, M.R., 2024. Antimicrobial Stewardship and Targeted Therapies in the Changing Landscape of Maternal Sepsis. *J. Intensive Med.* 4: 46–61. doi:10.1016/J.JOINTM.2023.07.006
- Shields, A.D., Plante, L.A., Pacheco, L.D., & Louis, J.M., 2023. Society for Maternal-Fetal Medicine Consult Series #67: Maternal sepsis. *Am. J. Obstet. Gynecol.* 229: B2–B19. doi:10.1016/J.AJOG.2023.05.019
- Shukenova, E., Minkauskiene, M., Dzhardemalieva, N., Koshenova, L., & Ospanova, S., 2025. Characteristics of the Pregnancy and Labour Course in Women who Underwent COVID-19 during Pregnancy. *J. Perinat. Med.* 53: 205–212. doi:10.1515/jpm-2024-0302
- Sidhu, S.K., Malhotra, S., Devi, P., & Tuli, A.K., 2016. Significance of coagulase negative Staphylococcus from blood cultures: Persisting problems and partial progress in resource constrained settings. *Iran. J. Microbiol.*
- Singer, M., Deutschman, C.S., Seymour, C., Shankar-Hari, M., Annane, D., Bauer, M., et al., 2016. The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). *JAMA* 315: 801–810. doi:10.1001/JAMA.2016.0287
- Singh, P., Tirkey, S., Trivedi, K., Hansda, R., & Prakash, J., 2022. Study of Cases of Puerperal Sepsis, its Socio-Demographic Factors, Bacterial Isolates, and Antibiotic Sensitivity Pattern. *J. Fam. Med. Prim. Care* 11: 5155–5160. doi:10.4103/JFMPC.JFMPC_2419_21
- Soebandrio, A., Saptawati, L., Prasetyo, D.S., Rahmiati, & Puspendari, N., 2020. Pedoman Nasional Penyusunan Antibiotogram.
- Stranieri, I., Kanunfre, K.A., Rodrigues, J.C., Yamamoto, L., Nadaf, M.I.V., Palmeira, P., et al., 2018. Assessment and Comparison of Bacterial Load Levels Determined by Quantitative Amplifications in Blood Culture-Positive and Negative Neonatal Sepsis. *Rev. Inst. Med. Trop. Sao Paulo* 60: e61. doi:10.1590/S1678-9946201860061
- Syairaji, M., Nurdianti, D.S., Wiratama, B.S., Prüst, Z.D., Bloemenkamp, K.W.M.,

- & Verschueren, K.J.C., 2024. Trends and Causes of Maternal Mortality in Indonesia: a Systematic Review. *BMC Pregnancy Childbirth* 24: 1–14. doi:10.1186/S12884-024-06687-6/FIGURES/4
- Tanaka, H., Katsuragi, S., Hasegawa, J., Tanaka, K., Osato, K., Nakata, M., et al., 2019. The Most Common Causative Bacteria in Maternal Sepsis-Related Deaths in Japan were Group A Streptococcus: A Nationwide Survey. *J. Infect. Chemother.* 25: 41–44. doi:10.1016/J.JIAC.2018.10.004
- Traoré, F.B., Sidibé, C.S., Diallo, E.H.M., Camara, B.S., Sidibé, S., Diallo, A., et al., 2024. Prevalence and Factors Associated with Maternal and Neonatal Sepsis in Sub-Saharan Africa: a Systematic Review and Meta-Analysis. *Front. Public Heal.* 12: 1272193. doi:10.3389/FPUBH.2024.1272193/BIBTEX
- Tujula, B., Kokki, H., Räsänen, J., & Kokki, M., 2018. Procalcitonin; a Feasible Biomarker for Severe Bacterial Infections in Obstetrics and Gynecology? *Acta Obstet. Gynecol. Scand.* 97: 505–506. doi:10.1111/AOGS.13346
- Tunçalp, Ö., Souza, J.P., Hindin, M.J., Santos, C.A., Oliveira, T.H., Vogel, J.P., et al., 2014. Education and Severe Maternal Outcomes in Developing Countries: a Multicountry Cross-Sectional Survey. *BJOG* 121 Suppl: 57–65. doi:10.1111/1471-0528.12634
- Van der Poll, T., Shankar-Hari, M., & Wiersinga, W.J., 2021. The Immunology of Sepsis. *Immunity* 54: 2450–2464. doi:10.1016/J.IMMUNI.2021.10.012
- Wang, H., Frasco, E., Takesue, R., & Tang, K., 2021. Maternal Education Level and Maternal Healthcare Utilization in the Democratic Republic of the Congo: an Analysis of the Multiple Indicator Cluster Survey 2017/18. *BMC Health Serv. Res.* 21. doi:10.1186/s12913-021-06854-x
- Wen, Y., Chen, H., Ming, X., Chen, X., & Zhou, W., 2021. Analysis of Risk Factors, Pathogenic Bacteria of Maternal Sepsis in Term Pregnant Women with Positive Blood Culture during Hospitalization. *Med. (United States)* 100: E24847. doi:10.1097/MD.00000000000024847
- WHO, 2025. SDG Target 3.1 | Maternal Mortality: By 2030, Reduce the Global Maternal Mortality Ratio to Less than 70 per 100 000 Live Births [WWW Document]. URL <https://www.who.int/data/gho/data/themes/topics/indicator-groups/indicator-group-details/GHO/maternal-mortality> (accessed 10.11.25).
- WHO, 2017. Statement on Maternal Sepsis Sepsis: a Leading Cause of Maternal Deaths. *Dep. Reprod. Heal. Res. World Heal. Organ.*
- WHO, 2012. The WHO Application of ICD-10 to Deaths during Pregnancy, Childbirth and the Puerperium: ICD-MM.
- Wiersinga, W.J., Leopold, S.J., Cranendonk, D.R., & van der Poll, T., 2013. Host Innate Immune Responses to Sepsis. *Virulence* 5: 36. doi:10.4161/VIRU.25436

- Wiersinga, W.J., & van der Poll, T., 2022. Immunopathophysiology of Human Sepsis. *eBioMedicine* 86: 104363. doi:10.1016/j.ebiom.2022.104363
- Woodd, S.L., Montoya, A., Barreix, M., Pi, L., Calvert, C., Rehman, A.M., et al., 2019. Incidence of Maternal Peripartum Infection: a Systematic Review and Meta-Analysis. *PLOS Med.* 16: e1002984. doi:10.1371/JOURNAL.PMED.1002984
- Yamamoto, H., Usman, M., Koutrouvelis, A., & Yamamoto, S., 2025. Mechanism of Sepsis. *J. Mol. Pathol.* 2025, Vol. 6, Page 18 6: 18. doi:10.3390/JMP6030018
- Yoon, J., Kym, D., Hur, J., Park, J., Kim, M., Cho, Y.S., et al., 2023. The Clinical Differentiation of Blood Culture-Positive and-Negative Sepsis in Burn Patients: A Retrospective Cohort Study. *Burn. Trauma* 11. doi:10.1093/burnst/tkad031
- Yu, C., Lv, H., Fang, W., Zhang, X., & Huang, L., 2025. Global Incidence of Maternal Sepsis: A Systematic Review and Meta-analysis. *J. Gynecol. Obstet. Hum. Reprod.* 54: 102940. doi:10.1016/J.JOGOH.2025.102940
- Zhong, X., Lin, R., Zhang, W., Huang, S., Luo, Y., & Wang, D., 2022. Epidemiology and Clinical Features of Maternal Sepsis: A Retrospective Study of Whole Pregnancy Period. *Med. (United States)* 101: E30599. doi:10.1097/MD.00000000000030599