

Incidence and aetiology of infant Gram-negative bacteraemia and meningitis: systematic review and meta-analysis

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EMBASE (Ovid)

- 1 bacterial meningitis/ OR sepsis/ OR bacteremia/ OR (septicemia OR septicaemia OR invasive bacterial infection OR bloodstream infection).ti
- 2 newborn/ OR infant/ OR (neonat*).ti
- 3 Limit (1 AND 2) TO dc=20100531-20200601

MEDLINE (Ovid)

- 1 bacterial meningitis.sh OR sepsis.sh OR bacteremia.sh OR (septicemia OR septicaemia OR invasive bacterial infection OR bloodstream infection).ti
- 2 newborn.sh OR infant.sh OR (neonat*).ti
- 3 limit (1 AND 2) TO dt=20100531-20200601

GLOBAL HEALTH (Ovid)

- 1 bacterial meningitis.sh or sepsis.sh or bacteremia.sh or (septicemia OR septicaemia OR invasive bacterial infection OR bloodstream infection).ti
- 2 newborn.sh OR infant.sh OR (neonat\$).ti
- 3 limit (1 AND 2) TO yr="2010-2020"

First Author	Year	Title	Journal	Type	Language	Country	Exclusion Decision
Liu	2019	A clinical analysis of late-onset sepsis in very low birth weight and extremely low birth weight infants.	Chinese Journal of Contemporary Pediatrics	Manuscript	Chinese	China	Sample size
Jain	2010	A clinicomicrobial association in neonatal septicemia	Pediatric OnCall	Manuscript	English	India	Sample size
Radfar	2016	A Comparative Evaluation of Microbial Pattern and Antibiotic Susceptibility in a Level III NICU Between Two Decades	Archives of Pediatric Infectious Diseases	Manuscript	English	Iran	Incomplete/No pathogen breakdown
Stewart	2010	A Comparison of Colonising Organisms with Those Causing Acquired Neonatal Septicaemia	Pediatric Research	Conference Abstract	English	Australia	Incomplete/No pathogen breakdown
Inglis	2010	A Comparison of Empiric Antibiotics and Sensitivities of Organisms Causing Acquired Neonatal Septicaemia	Pediatric Research	Conference Abstract	English	Australia	Incomplete/No pathogen breakdown
Al-Mouqdad	2018	A Retrospective Cohort Study Patient Chart Review of Neonatal Sepsis Investigating Responsible Microorganisms and Their Antimicrobial Susceptibility	Journal of Clinical Neonatology	Manuscript	English	Saudi Arabia	Sample size
Li	2019	A retrospective study on clinical characteristics and etiology of neonatal early-onset and late-onset septicemia	Chinese Journal of Infection and Chemotherapy	Manuscript	Chinese	China	Sample size
Rao	2015	A spectrum of bacterial pathogens and its antibiotic susceptibility pattern isolated from neonatal sepsis in an NICU in a government pediatric hospital	International Research Journal of Biological Sciences	Manuscript	English	India	Incomplete/No pathogen breakdown
Garg	2018	A study of neonatal septicemia in a Tertiary Care Hospital	Journal of Pure and Applied Microbiology	Manuscript	English	India	Sample size
Tiwari	2013	A study on the bacteriological profile and antibiogram of bacteremia in children below 10 years in a tertiary care hospital in bangalore, India	J Clin Diagn Res	Manuscript	English	India	Infacts data not reported
Shobowale	2015	A study on the outcome of neonates with sepsis at the Lagos University Teaching Hospital	International Journal of Medicine and Biomedical Research	Manuscript	English	Nigeria	Sample size
Jeyamurugan	2012	Acinetobacter spp.: An emerging pathogen in neonatal septicemia	Journal of Clinical and Diagnostic Research	no PDF	no PDF	no PDF	Full-text unavailable
Khalifa	2011	Acquired bacterial meningitis in Monastir region, Tunisia (1999-2006): Bacteriological aspects and susceptibility patterns	Bulletin de la Societe de Pathologie Exotique	Manuscript	French	no PDF	Sample size
Waters	2011	Aetiology of community-acquired neonatal sepsis in low and middle income countries	J Glob Health	Review	English	Multiple	Review
Okomo	2019	Aetiology of invasive bacterial infection and antimicrobial resistance in neonates in sub-Saharan Africa: a systematic review and meta-analysis in line with the STROBE-NI reporting guidelines	Lancet Infect Dis	Review	English	African countries	Review
Medugu	2018	Aetiology of neonatal sepsis in Nigeria, and relevance of Group b streptococcus: A systematic review	PLoS One	Review	English		Review
Blanckaert	2012	Ampicillin resistance epidemiology in neonatal sepsis in the era of intrapartum antimicrobial prevention of early-onset group b streptococcal (GBS) sepsis	Archives of Disease in Childhood	Conference Abstract	English	no PDF	Incomplete/No pathogen breakdown
Saadi	2017	Antibiogram profile of septic meningitis among children in Duhok, Iraq	Saudi Med J	Manuscript	English	no PDF	Infacts data not reported
Ares	2013	Antibiotic resistance of gram-negative bacilli isolated from pediatric patients with nosocomial bloodstream infections in a Mexican tertiary care hospital	Chemotherapy	Manuscript	English	no PDF	Incomplete/No pathogen breakdown
Shrestha	2012	Antibiotic usage and its sensitivity pattern in the NICU	Kathmandu Univ Med J (KUMJ)	Manuscript	English	Nepal	Sample size
Dangre	2012	Antimicrobial resistance in neonatal septicemia: A therapeutic challenge to Pediatricians of rural India	International Journal of Infectious Diseases	Conference Abstract	English	India	Incomplete/No pathogen breakdown
Keshari	2018	Antimicrobial susceptibility of gram-positive isolates from neonatal septicemia in a tertiary care hospital	Journal, Indian Academy of Clinical Medicine	Manuscript	English	India	Sample size
Rabirad	2014	Antimicrobial susceptibility patterns of the gram-negative bacteria isolated from septicemia in Children's Medical Center, Tehran, Iran	J Prev Med Hyg	Manuscript	English	Iran	Infacts data not reported
Abdelnasser	2011	Bacteraemia in the neonatal intensive care unit (NICU) at Al-Hussein University Hospital, Cairo, Egypt	American Journal of Infection Control. Conference: 38th Annual Educational Conference and International	Conference Abstract	English	Egypt	Incomplete/No pathogen breakdown
Maham	2018	Bacterial etiology and antibiotic resistance pattern of pediatric bloodstream infections: A multicenter based study in Tehran, Iran	Ann Ig	Manuscript	English	Iran	Infacts data not reported
Tehrani.	2017	Bacterial etiology and antibiotic resistance patterns in neonatal sepsis in Tehran during 2006-2014	Iranian Journal of Pathology	Manuscript	English	Iran	Sample size
Shahian	2010	Bacterial etiology and antibiotic sensitivity patterns of early-late onset neonatal sepsis among newborns in Shiraz, Iran 2004-2007	Iranian Journal of Medical Sciences	Manuscript	English	Iran	Sample size
Pakai	2010	Bacterial infections in department of neonatology	Journal of Maternal-Fetal and Neonatal Medicine	Conference Abstract	English	Romania	Infacts data not reported
Huynh	2018	Bacterial Infections in Neonates, Madagascar, 2012-2014	Emerg Infect Dis	Manuscript	English	Madagascar	Sample size
Shrestha	2013	Bacterial isolates and its antibiotic susceptibility pattern in NICU	Kathmandu Univ Med J (KUMJ)	Manuscript	English	Nepal	Sample size
Nwadioha	2013	Bacterial isolates from cerebrospinal fluid of children with suspected acute meningitis in a Nigerian tertiary hospital	Niger Postgrad Med J	Manuscript	English	Nigeria	Sample size

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Takpere	2014	Bacterial isolates, risk factors and antibiogram of neonatal septicemia	International Journal of Pharma and Bio Sciences	Manuscript	English	India	Sample size
Mohammed	2014	Bacterial nosocomial infections in neonatal intensive care unit, Zagazig University Hospital, Egypt	Egyptian Pediatric Association Gazette	Manuscript	English	Egypt	Incomplete/No pathogen breakdown
Yousefimashouf	2013	Bacterial Pathogenes Causing Septicemia in Infants Patients and Antibiotics Resistance Pattern in Hamedan, West of Iran	Intensive Care Medicine	Conference Abstract	English	Iran	Incomplete/No pathogen breakdown
Gebrehiwot	2012	Bacterial profile and drug susceptibility pattern of neonatal sepsis in Gondar University Hospital, Gondar northwest Ethiopia	Der Pharmacia Lettre	Manuscript	English	Ethiopia	Sample size
Rajendraprasad	2013	Bacterial spectrum of neonatal septicemia with their antibiogram with reference to various predisposing factors in a tertiary care hospital in Southern India	Annals of Tropical Medicine and Public Health	Manuscript	English	India	Sample size
Al-Talib	2012	Bacteriological and epidemiological study on neonatal sepsis	BJOG-an International Journal of Obstetrics and Gynaecology	Conference Abstract	English	Iraq	Incomplete/No pathogen breakdown
Bhattarai	2019	Bacteriological profile and antibiotic sensitivity pattern of neonatal sepsis in central paediatric referral hospital in Nepal	Journal of Nepal Paediatric Society	Manuscript	English	Nepal	Sample size
Pokhrel	2018	Bacteriological profile and antibiotic susceptibility of neonatal sepsis in neonatal intensive care unit of a tertiary hospital in Nepal	BMC Pediatr	Manuscript	English	Nepal	Sample size
Peterside	2015	Bacteriological profile and antibiotic susceptibility pattern of neonatal sepsis at a teaching hospital in Bayelsa State, Nigeria	Tropical Medicine and Health	Manuscript	English	Nigeria	Sample size
Adhikari	2014	Bacteriological profile and associated risk factors of neonatal sepsis in Paropakar Maternity and Women's Hospital Thapathali, Kathmandu	Nepal Med Coll J	Manuscript	English	Nepal	Sample size
Sharma	2016	Bacteriological profile and clinical predictors of ESBL neonatal sepsis	J Matern Fetal Neonatal Med	Manuscript	English	India	Focused on specific pathogen group
Dash	2012	Bacteriological profile and susceptibility pattern of neonatal blood stream infections	International Journal of Infectious Diseases	Conference Abstract	English	United Arab Emirates	Sample size
Devi	2017	Bacteriological profile and their antibiotic susceptibility pattern in neonatal bacteremia	Journal of Pure and Applied Microbiology	Manuscript	English	India	Sample size
Venkatarao	2015	Bacteriological profile in neonatal septicemia	International Journal of Pharmaceutical Research and Bio Science	Manuscript	English	India	Sample size
Yadav	2018	Bacteriological profile of neonatal sepsis and antibiotic susceptibility pattern of isolates admitted at Kanti Children's Hospital, Kathmandu, Nepal	BMC Research Notes	Manuscript	English	Nepal	Sample size
Kumar	2017	Bacteriological profile of neonatal sepsis in a secondary care hospital in rural Tamil Nadu, Southern India	Journal of Family Medicine and Primary Care	Manuscript	English	India	Sample size
Raj	2013	Bacteriological profile of neonatal sepsis in a tertiary care hospital	World Journal of Pharmacy and Pharmaceutical Sciences	no PDF	no PDF	no PDF	Full-text unavailable
Khanal	2014	Bacteriological profile of neonatal sepsis in a tertiary level hospital of Nepal	Journal of Nepal Paediatric Society	Manuscript	English	Nepal	Sample size
Chapagain	2015	Bacteriological Profile of Neonatal Sepsis in Neonatal Intermediate Care Unit of Central Paediatric Referral Hospital in Nepal	J Nepal Health Res Counc	Manuscript	English	Nepal	Sample size
Shrestha	2011	Bacteriological profile of neonatal sepsis: a hospital based study	Journal of Nepal Paediatric Society	Manuscript	English	Nepal	Sample size
Muley	2015	Bacteriological Profile of Neonatal Septicemia in a Tertiary Care Hospital from Western India	J Glob Infect Dis	Manuscript	English	India	Sample size
Tsering	2011	Bacteriological profile of septicemia and the risk factors in neonates and infants in sikkim	J Glob Infect Dis	Manuscript	English	India	Sample size
Shrestha	2013	Bacteriological study of neonatal sepsis and antibiotic susceptibility pattern of isolates in Kathmandu, Nepal	Nepal Med Coll J	Manuscript	English	Nepal	Sample size
Isaac	2013	Blood Culture Isolates in a Tropical Newborn Unit: A 5 Year Review	Intensive Care Medicine	Conference Abstract	English	Nigeria	Incomplete/No pathogen breakdown
Sorsa	2019	Blood culture result profile and antimicrobial resistance patterns: a report from neonatal intensive care unit (NICU), Asella teaching and referral hospital, Asella, south East Ethiopia	Antimicrob Resist Infect Control	Manuscript	English	Ethiopia	Sample size
Morkel	2014	Bloodstream infections and antimicrobial resistance patterns in a South African neonatal intensive care unit	Paediatr Int Child Health	Manuscript	English	South Africa	Sample size
Papadimitriou	2010	Bloodstream infections due to Gram-negative bacilli in a neonatal intensive care unit: A 6-year study	Clinical Microbiology and Infection	Conference Abstract	English	Greece	Sample size
Kenesei	2012	Bloodstream infections in a neonatal intensive care unit: A 5-year retrospective study, clinical and microbiological characteristics	Clinical Chemistry and Laboratory Medicine	Conference Abstract	English	Hungary	Incomplete/No pathogen breakdown
Spaulding	2018	Bloodstream infections in hospitalized children in The United States: Incidence, pathogens, and regional differences	Open Forum Infectious Diseases	Conference Abstract	English	USA	Infacts data not reported
Demiray	2014	Bloodstream infections in neonatal intensive care unit patients in Sakarya, Turkey	Clinical Biochemistry	Conference Abstract	English	Turkey	Incomplete/No pathogen breakdown
Arfi	2017	Case-control study shows that neonatal pneumococcal meningitis cannot be distinguished from group B Streptococcus cases	Acta Paediatr	Manuscript	English	France	Incomplete/No pathogen breakdown

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Greenhow	2012	Changing epidemiology of bacteremia in infants aged 1 week to 3 months	Pediatrics	Manuscript	English	USA	Sample size
Zhong	2013	Clinical analysis of neonatal necrotizing enterocolitis complicated septicemia. [Chinese]	Journal of Chongqing Medical University	Manuscript	Chinese	China	Sample type
Jiang	2014	Clinical analysis of nosocomial infection and risk factors of extremely premature infants	Zhonghua er ke za zhi	Manuscript	Chinese	China	Sample size
Guo	2016	Clinical and pathogenic analysis of 507 children with bacterial meningitis in Beijing, 2010-2014	Int J Infect Dis	Manuscript	English	China	Infacts data not reported
Yusef	2018	Clinical characteristics and epidemiology of sepsis in the neonatal intensive care unit in the era of multi-drug resistant organisms: A retrospective review	Pediatr Neonatol	Manuscript	English	Jordan	Sample size
Deng	2019	Clinical characteristics of pathogens in neonatal intensive care unit nosocomial septicemia and the expression of inflammatory cytokines in serum. [Chinese]	Chinese Journal of Nosocomiology	Manuscript	Chinese	China	Sample size
Otasevic	2017	Clinical course and outcomes of sepsis in neonates according to their gestational age	Journal of Perinatal Medicine	Conference Abstract	English	Serbia	Incomplete/No pathogen breakdown
Tas	2019	Clinical features and antibiotic resistance of gram negative infections detected in the newborn unit	Journal of Perinatal Medicine	Conference Abstract	English	Turkey	Incomplete/No pathogen breakdown
Kim	2019	Clinical features and prognostic factors of early-onset sepsis: a 7.5-year experience in one neonatal intensive care unit	Korean J Pediatr	Manuscript	English	Korea	Sample size
Farhat	2014	Clinical manifestation and laboratory findings of positive blood culture in neonatal septicemia	Iranian Journal of Neonatology	Manuscript	English	Iran	Incomplete/No pathogen breakdown
Ben Hamouda	2013	Clinical outcome and prognosis of neonatal bacterial meningitis	Arch Pediatr	Manuscript	French	Tunisia	Sample size
Naik	2019	Clinical Profile and Bacteriological Spectrum of Neonatal Sepsis, in a Tertiary Care Hospital, Kashmir India	Journal of Evolution of Medical and Dental Sciences- Jemds	Manuscript	English	India	Sample size
Mahallei	2018	Clinical symptoms, laboratory, and microbial patterns of suspected neonatal sepsis cases in a children's referral hospital in northwestern Iran	Medicine (Baltimore)	Manuscript	English	Iran	Sample size
Darboe	2019	Community-acquired Invasive Bacterial Disease in Urban Gambia, 2005-2015: A Hospital-based Surveillance	Clin Infect Dis	Manuscript	English	Gambia	Infacts data not reported
Downie	2013	Community-acquired neonatal and infant sepsis in developing countries: efficacy of WHO's currently recommended antibiotics—systematic review and meta-analysis	Arch Dis Child	Review	English	Multiple	Review
Primhak	2018	Community-onset invasive bacterial infections in infants under 3 months-10 years of experience in Auckland, New Zealand	Open Forum Infectious Diseases	Conference Abstract	English	New Zealand	Incomplete/No pathogen breakdown
Dhanalakshmi	2015	Comparative Study in Early Neonates with Septicemia by Blood Culture, Staining Techniques and C - Reactive Protein (CRP)	J Clin Diagn Res	Manuscript	English	India	Sample size
Ramasamy	2014	Comparison of two empiric antibiotic regimen in late onset neonatal sepsis—a randomized controlled trial	J Trop Pediatr	Manuscript	English	India	Sample size
Hassan	2016	Correlation of blood culture results with the sepsis score and sepsis screen in the diagnosis of early-onset neonatal septicemia	Journal of Clinical Neonatology	Manuscript	English	India	Sample size
Nurfitri	2011	Culture and resistency in newborn sepsis and the mortality rate at neonatal intensive care unit of Fatmawati hospital	Pediatric Critical Care Medicine	Manuscript	English	Indonesia	Incomplete/No pathogen breakdown
Pavicic Bosnjak	2019	Culture proven late onset sepsis in preterm infants born before 32 weeks of gestation in a tertiary care hospital over 10 years a retrospective study	Journal of Perinatal Medicine	Conference Abstract	English	Croatia	Incomplete/No pathogen breakdown
Kangozhinova	2013	Culture proven newborn sepsis with a special emphasis on late onset sepsis caused by Enterobacteriaceae in a level III neonatal care unit in Astana, Kazakhstan	Wien Klin Wochenschr	Manuscript	English	Kazakhstan	Sample size
Morioka	2012	Culture-proven neonatal sepsis in Japanese neonatal care units in 2006-2008	Neonatology	Manuscript	English	Japan	Sample size
Black	2019	Distribution of Late-Onset Neonatal Sepsis Pathogens Differs in Inpatient and Outpatient Settings	Am J Perinatol	Manuscript	English	USA	Sample type
Sarkar	2014	Does maternal intrapartum antibiotic treatment prolong the incubation time required for blood cultures to become positive for infants with early-onset sepsis?	American Journal of Perinatology	Manuscript	English	USA	Sample size
Resende	2010	Early neonatal sepsis in a neonatal intensive care unit - 12 years' experience	Journal of Maternal-Fetal and Neonatal Medicine	Conference Abstract	English	Portugal	Incomplete/No pathogen breakdown
Perez	2015	Early neonatal sepsis, incidence and associated risk factors in a public hospital in western Mexico	Revista chilena de infectología : organo oficial de la Sociedad Chilena de Infectología	Manuscript	Spanish	Mexico	Sample size
Tameliene	2015	Early-onset neonatal infection in Lithuania	Journal of Pediatric and Neonatal Individualized Medicine	Manuscript	English	Lithuania	Sample size
Popik	2015	Early-onset neonatal infection: A tertiary care hospital 's experience	Journal of Perinatal Medicine. Conference: 12th World Congress of Perinatal Medicine	Conference Abstract	English	Portugal	Sample size
Stafford	2012	Efficacy of maternal and neonatal chemoprophylaxis for early-onset group B streptococcal disease	Obstet Gynecol	Manuscript	English	USA	Focused on specific pathogen group
Aletayeb	2010	Eleven-year study of causes of neonatal bacterial meningitis in Ahvaz, Iran	Pediatr Int	Manuscript	English	Iran	Sample size

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Carbonell-Estrany	2012	Epidemiological considerations in early onset neonatal sepsis	Journal of Maternal-Fetal and Neonatal Medicine	Conference Abstract	English	Spain	Incomplete/No pathogen breakdown
Kortsalioudaki	2014	Epidemiology and antibiotic susceptibility of Gram-Negative (GN) neonatal infections over 10 years: Data from the Neonin infection surveillance network (www.neonin.ore.uk)	Archives of Disease in Childhood	Conference Abstract	English	United Kingdom	Incomplete/No pathogen breakdown
Wang	2019	Epidemiology and healthcare factors associated with neonatal enterococcal infections	Arch Dis Child Fetal Neonatal Ed	Manuscript	English	Multiple	Focused on specific pathogen group
Chen	2015	Epidemiology and microbiology of sepsis in mainland China in the first decade of the 21st century	Int J Infect Dis	Manuscript	English	China	Incomplete/No pathogen breakdown
Khan	2012	Epidemiology and outcome of sepsis in a tertiary care PICU of Pakistan	Indian J Pediatr	Manuscript	English	Pakistan	Infacts data not reported
Hsieh	2014	Epidemiology and Prevalence of Bloodstream Infections in a Regional Hospital in Northern Taiwan During 2008-2013	Journal of Experimental and Clinical Medicine (Taiwan)	Manuscript	English	Taiwan	Sample size
Khan	2010	Epidemiology of bacteraemia in Hamad general hospital, Qatar: a one year hospital-based study	Travel Med Infect Dis	Manuscript	English	Qatar	Infacts data not reported
Powell	2018	Epidemiology of Bacteremia in Febrile Infants Aged 60 Days and Younger	Ann Emerg Med	Manuscript	English	USA	Sample size
Anderson	2014	Epidemiology of bacteremia in young hospitalized infants in Vientiane, Laos, 2000-2011	J Trop Pediatr	Manuscript	English	Laos	Sample size
Neto	2017	Epidemiology of blood-stream infection in Portuguese neonatal intensive care units	Journal of Neonatal-Perinatal Medicine	Conference Abstract	English	Portugal	Incomplete/No pathogen breakdown
Leazer	2017	Epidemiology of Cerebrospinal Fluid Cultures and Time to Detection in Term Infants	Pediatrics	Manuscript	English	USA	Sample size
Akoua-Koffi	2015	Epidemiology of community-onset bloodstream infections in Bouake, central Cote d'Ivoire	New Microbes New Infect	Manuscript	English	Côte d'Ivoire	Sample size
Ranosiarisoa	2019	Epidemiology of Early-onset Bacterial Neonatal Infections in Madagascar	Pediatr Infect Dis J	Manuscript	English	Madagascar	Sample size
Hasbun	2019	Epidemiology of Meningitis and Encephalitis in Infants and Children in the United States, 2011-2014	Pediatr Infect Dis J	Manuscript	English	USA	Infacts data not reported
Braye	2019	Epidemiology of neonatal early-onset sepsis in a geographically diverse Australian health district 2006-2016	PLoS One	Manuscript	English	Australia	Sample size
Liu	2015	Epidemiology of neonatal purulent meningitis in Hebei Province, China: A multicenter study	Chinese Journal of Contemporary Pediatrics	Manuscript	English	China	Incomplete/No pathogen breakdown
Abebe	2019	Epidemiology of neonatal sepsis and associated factors implicated: observational study at Neonatal Intensive Care Unit of Arsi University Teaching and Referral Hospital, South East Ethiopia	Ethiopian Journal of Health Sciences	Manuscript	English	Ethiopia	Sample size
Giannoni	2014	Epidemiology of neonatal sepsis in Switzerland-results from the swiss paediatric sepsis study	Archives of Disease in Childhood	Conference Abstract	English	Switzerland	Incomplete/No pathogen breakdown
Garcia	2014	Epidemiology of nosocomial infections in a neonatal intensive care unit	Revista Medica del Instituto Mexicano del Seguro Social	Manuscript	Spanish	Mexico	Sample size
Gonzalez	2012	Epidemiology of proven nosocomial sepsis in low birth weight infants admitted in the level 3 neonatal intensive care unit	Archives of Disease in Childhood	Conference Abstract	English	Spain	Sample size
Hamer	2015	Etiology of bacteremia in young infants in six countries	Pediatr Infect Dis J	Manuscript	English	Bangladesh, Bolivia, Ghana, India, Pakistan, South	Sample size
Ramchandrar	2017	Epidemiology of serious bacterial infections in a cohort of infants in the military health system from 2005 to 2015	Open Forum Infectious Diseases	Conference Abstract	English	USA	Duplicate data
Akindilire	2016	Etiology of early onset septicemia among neonates at the University College Hospital, Ibadan, Nigeria	J Infect Dev Ctries	Manuscript	English	Nigeria	Sample size
Boskabadi	2020	Etiology, clinical findings and laboratory parameters in neonates with acute bacterial meningitis	Iran J Microbiol	Manuscript	English	Iran	Sample size
Bozkurt	2018	Evaluation of our neonatal sepsis cases in terms of causing microorganism and antibiotic resistance	Journal of Pediatric Infection	Manuscript	English	Turkey	Sample size
Lin	2012	Factors for poor prognosis of neonatal bacterial meningitis in a medical center in Northern Taiwan	J Microbiol Immunol Infect	Manuscript	English	Taiwan	Incomplete/No pathogen breakdown
Pius	2016	Factors influencing neonatal septicaemia in Maiduguri, North-Eastern Nigeria	African Journal of Clinical and Experimental Microbiology	Manuscript	English	Nigeria	Sample type
Ivady	2016	Factors influencing antimicrobial resistance and outcome of Gram-negative bloodstream infections in children	Infection	Manuscript	English	Hungary	Infacts data not reported
Noormohammadi	2013	Frequency of positive blood cultures in pediatric sepsis	Iranian Journal of Pediatrics	no PDF	no PDF	no PDF	Full-text unavailable
Maltha	2014	Frequency of severe malaria and invasive bacterial infections among children admitted to a rural hospital in Burkina Faso	PLoS One	Manuscript	English	Burkina Faso	Sample size
Djordjevic	2015	Health care acquired infections in neonatal intensive care units: Risk factors and etiology	American Journal of Infection Control	Manuscript	English	Servia	Sample type

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Lekic	2011	Etiology of Bacterial Sepsis in Pre-Term Newborn Infants	Intensive Care Medicine	Conference Abstract	English	Montenegro	Incomplete/No pathogen breakdown
Luangxay	2012	High hospital incidence of Staphylococcus aureus bacteremia in young infants in the Lao PDR	International Journal of Infectious Diseases	Conference Abstract	English	PDR Loa	Sample size
Dharmapalan	2017	High Reported Rates of Antimicrobial Resistance in Indian Neonatal and Pediatric Blood Stream Infections	J Pediatric Infect Dis Soc	Review	English	India	Review
Sundaresan	2016	High rate of antimicrobial resistance in bloodstream infections among infants and children in India	International Journal of Infectious Diseases	Conference Abstract	English	India	Infacts data not reported
Perez Lopez	2011	Hospital-acquired bacteraemia among children admitted to a london tertiary hospital as a measurement of neonatal and paediatric healthcare-associated infection	Archives of Disease in Childhood	Conference Abstract	English	United Kingdom	Incomplete/No pathogen breakdown
Hamed	2019	Hospital-acquired neonatal meningitis: Experience of the neonatology departemet of Sfax (Tunisia)	Archives of Disease in Childhood	Conference Abstract	English	Tunisia	Incomplete/No pathogen breakdown
Li	2018	Identification and antimicrobial resistance of pathogens in neonatal septicemia in China-A meta-analysis	Int J Infect Dis	Review	English	China	Review
Haque	2014	Identification of bacterial isolates in neonatal sepsis and their antimicrobial susceptibility	Mymensingh Med J	no PDF	no PDF	no PDF	Full-text unavailable
Mugauri	2018	Hospital-acquired neonatal sepsis outbreak in an intensive care unit, parirenyatwa group of hospitals, Zimbabwe, 2016	Pediatric Critical Care Medicine	Conference Abstract	English	Zimbabwe	Incomplete/No pathogen breakdown
Lazar	2015	Impact of conversion from an open ward design paediatric intensive care unit environment to all isolated rooms environment on incidence of bloodstream infections and antibiotic resistance in Southern Israel	Anaesth Intensive Care	Manuscript	English	Israel	Infacts data not reported
Ali	2018	Incidence and aetiology of bacterial meningitis among children aged 1-59months in South Asia: systematic review and meta-analysis	Vaccine	Review	English	Asian countries	Review
Shidiki	2018	Incidence and antibiotic profile of bacterial isolates from neonatal septicemia in national medical college and teaching hospital, Birgunj, Nepal	Research Journal of Pharmacy and Technology	Manuscript	English	Nepal	Sample size
Bystricka	2014	Identification of bacterial pathogens and their antimicrobial susceptibility of early onset neonatal sepsis	Journal of Maternal-Fetal and Neonatal Medicine	Conference Abstract	English	UAE	Full-text unavailable
Pathak	2014	Incidence and determinants of health care associated blood stream infections at a neonatal intensive care unit in Ujjain, India: Results of a prospective cohort study	International Journal of Infectious Diseases	Conference Abstract	English	India	Sample size
Bekker	2014	Incidence of invasive group B streptococcal disease and pathogen genotype distribution in newborn babies in the Netherlands over 25 years: a nationwide surveillance study	Lancet Infect Dis	Manuscript	English	Netherland	Focused on specific pathogen group
El-Nawawy	2018	Incidence of Multidrug-Resistant Organism Among Children Admitted to Pediatric Intensive Care Unit in a Developing Country	Microbial Drug Resistance	Manuscript	English	Egypt	Sample size
Hajnal Avramovic	2012	Incidence and organism pattern in early onset neonatal sepsis	Archives of Disease in Childhood	Conference Abstract	English	Serbia	Incomplete/No pathogen breakdown
Lekic	2014	Infectious diseases in term newborn infants	Archives of Disease in Childhood	Conference Abstract	English	Montenegro	Sample type
Arif	2018	In-vitro antimicrobial analysis of routinely used antibiotics against neonatal bacteremia	Pakistan Paediatric Journal	Manuscript	English	Pakistan	Sample size
Didier	2012	Late-onset neonatal infections: incidences and pathogens in the era of antenatal antibiotics	Eur J Pediatr	Manuscript	English	France	Sample type
Dong	2019	Late-onset sepsis caused by Gram-negative bacteria in very low birth weight infants: a systematic review	Expert Rev Anti Infect Ther	Review	English	Multiple	Review
Hassoun	2014	Listeria and enterococcal infections in neonates 28 days of age and younger: Is empiric parenteral ampicillin still indicated?	Pediatric Emergency Care	Manuscript	English	USA	Sample type
Drageset	2017	Management of early-onset neonatal sepsis differs in the north and south of Scandinavia	Acta Paediatr	Manuscript	English	Norway, Denmark	Sample size
Mkony	2014	Management of neonatal sepsis at Muhimbili National Hospital in Dar es Salaam: diagnostic accuracy of C-reactive protein and newborn scale of sepsis and antimicrobial resistance pattern of etiological bacteria	BMC Pediatr	Manuscript	English	Tanzania	Sample size
Tosson	2011	Microbial pathogens causative of neonatal sepsis in Arabic countries	J Matern Fetal Neonatal Med	Review	English	Saudi Arabia, Bahrain, Kuwait	Review
Alvarado-Gamarra	2016	Microbiological and therapeutic characteristics of confirmed neonatal sepsis at a hospital in Lima, Peru	Rev Peru Med Exp Salud Publica	Manuscript	Spanish	Peru	Sample size
Rajhan	2018	Microbiological Profile of Neonatal Septicaemia Along with an Overview of the Clinical Scenario	Journal of Evolution of Medical and Dental Sciences-Jemds	Manuscript	English	India	Sample size
Revuelta	2015	Infectious epidemiology of early and late-onset sepsis at a neonatal intensive care unit: An eleven-year surveillance study	Journal of Perinatal Medicine. Conference: 12th World Congress of Perinatal Medicine	Conference Abstract	English	Spain	Sample type
Manyahi	2020	Multi-drug resistant bacteria predict mortality in bloodstream infection in a tertiary setting in Tanzania	PLoS One	Manuscript	English	Tanzania	Infacts data not reported
Abdul	2013	Multidrug resistant microorganisms causing neonatal septicemia: in a tertiary care hospital Lahore, Pakistan	African Journal of Microbiology Research	Manuscript	English	Pakistan	Sample size
Thatrimontrichai	2019	Multidrug-resistant Gram-negative bacilli sepsis from a neonatal intensive care unit: a case-case-control study	J Infect Dev Ctries	Manuscript	English	Thailand	Focused on specific pathogen group

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Viswanathan	2014	Multi-drug-resistant, non-fermenting, gram-negative bacilli in neonatal sepsis in Kolkata, India: a 4-year study	Paediatr Int Child Health	Manuscript	English	India	Focused on specific pathogen group
Ronni	2016	Multiple drug resistance (MDR) and phenotypic detection of Extended spectrum beta-lactamases (ESBL) and Metallo beta-lactamases (MBL) producing Enterobacteriaceae isolates of neonatal sepsis	Journal of Chemical and Pharmaceutical Research	Manuscript	English	India	Sample size
Lucignano	2011	Multiplex PCR allows rapid and accurate diagnosis of bloodstream infections in newborns and children with suspected sepsis	J Clin Microbiol	Manuscript	English	Italy	Infacts data not reported
Crichton	2018	Neonatal and paediatric bloodstream infections: Pathogens, antimicrobial resistance patterns and prescribing practice at Khayelitsha District Hospital, Cape Town, South Africa	Samj South African Medical Journal	Manuscript	English	South Africa	Sample size
Cowden	2017	Microbiology and Outcomes in Hospitalized Neonates with Sepsis: A Zambian Cohort Study	American Journal of Tropical Medicine and Hygiene	Conference Abstract	English	Zambia	Incomplete/No pathogen breakdown
Reta	2016	Neonatal bacterial meningitis in Tikur Anbessa Specialized Hospital, Ethiopia: a 10-year retrospective review	SpringerPlus	Manuscript	English	Ethiopia	Sample size
Kavuncuoglu	2013	Neonatal bacterial meningitis in Turkey: epidemiology, risk factors, and prognosis	J Infect Dev Ctries	Manuscript	English	Turkey	Sample size
Softic	2015	Neonatal bacterial meningitis: Results from a cross-sectional hospital based study	Acta Med Acad	Manuscript	English	Bosnia and Herzegovina	Sample size
Mohammadi	2014	Neonatal bacteremia isolates and their antibiotic resistance pattern in neonatal intensive care unit (NICU) at Beasat Hospital, Sanandaj, Iran	Acta Med Iran	Manuscript	English	Iran	Sample size
Nikkhoo	2015	Neonatal blood stream infections in tertiary referral hospitals in Kurdistan, Iran	Ital J Pediatr	Manuscript	English	Iran	Sample size
Asghar	2010	Neonatal late-onset sepsis in a NICU: analysis of causative organisms and antimicrobial susceptibility Ali Asghar children hospital from (2004/5-2007/5), Tehran, Iran	Research Journal of Biological Sciences	Manuscript	English	Iran	Sample size
Bentlin	2010	Neonatal meningitis according to the microbiological diagnosis: A decade of experience in a tertiary center	Arquivos de Neuro-Psiquiatria	Manuscript	English	Brazil	Incomplete/No pathogen breakdown
Khalessi	2014	Neonatal meningitis: risk factors, causes, and neurologic complications	Iran J Child Neurol	Manuscript	English	Iran	Sample size
Pissarra	2012	Neonatal nosocomial sepsis in a level iii neonatal intensive care unit	Journal of Neonatal-Perinatal Medicine	no PDF	no PDF	no PDF	Full-text unavailable
Thapa	2013	Neonatal sepsis as a major cause of morbidity in a tertiary center in Kathmandu	JNMA J Nepal Med Assoc	Manuscript	English	Nepal	Sample size
Mhada	2012	Neonatal sepsis at Muhimbili National Hospital, Dar es Salaam, Tanzania; aetiology, antimicrobial sensitivity pattern and clinical outcome	BMC Public Health	Manuscript	English	Tanzania	Sample size
Labuda	2019	Neonatal Sepsis Epidemiology in a Rural Province in Southeastern Cambodia, 2015-2017	Am J Trop Med Hyg	Manuscript	English	Cambodia	Incomplete/No pathogen breakdown
Alam	2014	Neonatal sepsis following prolonged rupture of membranes in a tertiary care hospital in Karachi, Pakistan	J Infect Dev Ctries	Manuscript	English	Pakistan	Sample size
Arowosegbe	2017	Neonatal sepsis in a Nigerian Tertiary Hospital: Clinical features, clinical outcome, aetiology and antibiotic susceptibility pattern	Southern African Journal of Infectious Diseases	Manuscript	English	Nigeria	Sample size
Mehar	2013	Neonatal sepsis in a tertiary care center in central India: microbiological profile, antimicrobial sensitivity pattern and outcome	J Neonatal Perinatal Med	Manuscript	English	India	Sample size
Zakariya	2011	Neonatal sepsis in a tertiary care hospital in South India: bacteriological profile and antibiotic sensitivity pattern	Indian J Pediatr	Manuscript	English	India	Sample size
Kamoun	2014	Neonatal bacterial meningitis in a developing country	Archives of Disease in Childhood	Conference Abstract	English	Tunisia	Incomplete/No pathogen breakdown
Al-Talar	2012	Neonatal Sepsis in Asian Countries.	American Journal of Epidemiology	Conference Abstract	English	Multiple	Duplicate data
Manea	2010	Neonatal sepsis in extremely low birth newborn	Journal of Maternal-Fetal and Neonatal Medicine	Conference Abstract	English	Romania	Sample size
Baglatzi	2014	Neonatal sepsis in NICU related to breast milk	Journal of Maternal-Fetal and Neonatal Medicine	Conference Abstract	English	Greece	Sample type
Fernandez-Colome	2013	Neonatal sepsis of vertical transmission in vlbwb. An epidemiological study from the 'grupo de hospitales castro'.	Journal of Perinatal Medicine. Conference: 11th World Congress of Perinatal Medicine	Conference Abstract	English	Spain	Sample type
Venkatnarayan	2014	Neonatal sepsis: a profile of a changing spectrum	Journal of Nepal Paediatric Society	Manuscript	English	India	Sample size
Sheikh	2014	Neonatal sepsis: an evaluation of bacteriological spectrum, antibiotic susceptibilities and prognostic predictors at Civil Hospital, Karachi	Pakistan Pediatric Journal	Manuscript	English	Pakistan	Sample size
Khan	2012	Neonatal sepsis: antibiotic sensitivity & resistance pattern of commonly isolated pathogens in a neonatal intensive care unit of a tertiary care hospital, South India	International Journal of Pharma and Bio Sciences	Manuscript	English	India	Sample size
Pius	2016	sample size	Niger Postgrad Med J	Manuscript	English	Nigeria	Sample type
Mudzikati	2015	Neonatal septicaemia: prevalence and antimicrobial susceptibility patterns of common pathogens at Princess Marina Hospital, Botswana	Southern African Journal of Infectious Diseases	Manuscript	English	Botswana	Sample size

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Lopez Sastre	2016	Neonatal sepsis of vertical transmission. An epidemiological study from the "Grupo De Hospitales Castrillo"	Journal of Maternal-Fetal and Neonatal Medicine	Conference Abstract	English	Spain	Sample type
Colomer	2015	Neonatal sepsis of vertical transmission in Spain. An epidemiological study from the "Grupo De Hospitales Castrillo"	Journal of Perinatal Medicine. Conference: 12th World Congress of Perinatal Medicine	Conference Abstract	English	Spain	Sample type
Pereira	2013	Nosocomial bloodstream infections in Brazilian pediatric patients: microbiology, epidemiology, and clinical features	PLoS One	Manuscript	English	Brazil	Infacts data not reported
Stratulat	2013	Neurodevelopment and neurological sequelae in premature infants who suffered from infection during neonatal period	Journal of Perinatal Medicine. Conference: 11th World Congress of Perinatal Medicine	Conference Abstract	English	unspecified	Incomplete/No pathogen breakdown
Tsakalidis	2011	Nosocomial blood stream infections in a neonatal intensive care unit: A single institution experience in northern Greece	Journal of Perinatal Medicine. Conference: 10th World Congress of Perinatal Medicine	Conference Abstract	English	Greece	Incomplete/No pathogen breakdown
Turkish Neonatal Society	2010	Nosocomial infections in neonatal units in Turkey: epidemiology, problems, unit policies and opinions of healthcare workers	Turkish Journal of Pediatrics	Manuscript	English	Turkey	Incomplete/No pathogen breakdown
Mitova	2011	Nosocomial infections in neonatological wards in Bulgaria (2000-2009)	Akusherstvo i ginekologija	no PDF	no PDF	no PDF	Full-text unavailable
Carbonell-Estrany	2013	Nosocomial infection in premature infants and NICU surveillance	Journal of Perinatal Medicine. Conference: 11th World Congress of Perinatal Medicine	Conference Abstract	English	Spain	Incomplete/No pathogen breakdown
Hemavathi	2015	Outbreak of neonatal septicemia by Klebsiella species in NICU	Journal of Pure and Applied Microbiology	no PDF	no PDF	no PDF	Full-text unavailable
Coskun	2014	Nosocomial infections due to multidrug-resistant microorganisms in neonates	Archives of Disease in Childhood	Conference Abstract	English	Turkey	Incomplete/No pathogen breakdown
Netto	2017	Parenteral Nutrition Is One of the Most Significant Risk Factors for Nosocomial Infections in a Pediatric Cardiac Intensive Care Unit	JPEN J Parenter Enteral Nutr	Manuscript	English	Italy	Infacts data not reported
Kishk	2014	Pattern of blood stream infections within neonatal intensive care unit, Suez Canal University Hospital, Ismailia, Egypt	International Journal of Microbiology	Manuscript	English	Egypt	Sample Size
Buetti	2017	Patterns and trends of pediatric bloodstream infections: a 7-year surveillance study	Eur J Clin Microbiol Infect Dis	Manuscript	English	Switzerland	Infacts data not reported
Haertel	2013	Nosocomial infections in very-low-birth-weight infants: risk factors and preventive strategies	Infection	Conference Abstract	English	Germany	Incomplete/No pathogen breakdown
Ouchenir	2016	Paediatric investigators collaborative network on infections in Canada (PICNIC) study of the epidemiology of bacterial and fungal meningitis in infants aged <90 days	Open Forum Infectious Diseases. Conference: ID Week	Conference Abstract	English	Canada	Sample Size
Subitha	2015	Plasmid mediated AmpC beta lactamase producing gram negative isolates in neonatal septicemia	International Journal of Current Microbiology and Applied Sciences	Manuscript	English	India	Sample size
Valappil	2012	Patterns of isolates in blood cultures and antibiotic resistance profiles over five years, in a tertiary surgical neonatal unit	Archives of Disease in Childhood	Conference Abstract	English	United Kingdom	Incomplete/No pathogen breakdown
Dezfoulimanesh	2011	Prevalence of bacterial and antibiotic sensitivity in septicemia of neonates admitted to Kermanshah Imam Reza Hospital (2007-2008).	Behbood Journal	Manuscript	Persian	Iran	Sample size
Mwananyanda	2019	Preventing Bloodstream Infections and Death in Zambian Neonates: Impact of a Low-cost Infection Control Bundle	Clin Infect Dis	Manuscript	English	Zambia	Incomplete/No pathogen breakdown
Ronnimol	2016	Profile of neonatal septicaemia in a tertiary care hospital of South India- A retrospective study	Indian Journal of Public Health Research and Development	Manuscript	English	India	Sample size
Douraghi	2011	Perinatal risk factors for the development of neonatal septicaemia	Clinical Microbiology and Infection	Conference Abstract	English	Iran	Incomplete/No pathogen breakdown
Song	2018	Relevant analyses of pathogenic bacteria and inflammatory factors in neonatal purulent meningitis	Exp Ther Med	Manuscript	English	China	Sample size
Aiken	2011	Risk and causes of paediatric hospital-acquired bacteraemia in Kilifi District Hospital, Kenya: a prospective cohort study	Lancet	Manuscript	English	Kenya	Infacts data not reported
John	2015	Risk factors and practices contributing to newborn sepsis in a rural district of Eastern Uganda, August 2013: a cross sectional study	BMC Res Notes	Manuscript	English	Uganda	Sample size
Thatrimontrichai	2020	Risk Factors for 30-Day Mortality in Neonatal Gram-Negative Bacilli Sepsis	Am J Perinatol	Manuscript	English	Thailand	Focused on specific pathogen group
Samanta	2011	Risk factors for late onset gram-negative infections: a case-control study	Arch Dis Child Fetal Neonatal Ed	Manuscript	English	United Kingdom	Sample size
Smith	2012	Polymicrobial sepsis in hospitalised infants	Early Human Development	Conference Abstract	English	USA	Incomplete/No pathogen breakdown
Pirouzi	2020	Role of bacterial agents in newborn babies with septicemia	Clinical Epidemiology and Global Health	Manuscript	English	Iran	Sample size
Ismail	2010	Profile of organisms isolated from blood cultures in neonatal intensive care unit and their resistance pattern	International Journal of Infectious Diseases	Conference Abstract	English	Malaysia	Incomplete/No pathogen breakdown
Douraghi	2010	Risk of neonatal septicemia associated with neonatal-maternal-bacterial determinants	Critical Care	Conference Abstract	English	Iran	Sample size
Bobelyte	2017	Sepsis Epidemiology and Outcome in Picu of Vilnius University Children Hospital	European Journal of Pediatrics	Manuscript	English	Lithuania	Sample type

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Chiang	2012	Sepsis among preterm infants with birth weight<=750 g: Experience of a medical center in northern taiwan	Archives of Disease in Childhood	Conference Abstract	English	Taiwan	Sample size
Sotobe-Mbana	2017	Sepsis and outcomes of admission to the paediatric intensive care unit at the Nelson Mandela Academic Hospital, Mthatha, South Africa	Southern African Journal of Critical Care	Conference Abstract	English	South Africa	Sample type
Lekic	2015	Sepsis in full-term newborn infants-microbial causes	Journal of Perinatal Medicine. Conference: 12th World Congress of Perinatal Medicine	Conference Abstract	English	Montenegro	Sample type
Phung	2020	Sepsis in pediatric in Vietnam: A retrospective study in period 2008 to 2018	Systematic Reviews in Pharmacy	Manuscript	English	Vietnam	Infacts data not reported
Ascher	2012	Sepsis in young infants with congenital heart disease	Early Hum Dev	Manuscript	English	USA	Subgroup (congenital heart disease)
Ali	2017	Sepsis Screen Parameters as a Tool for Diagnosis of Neonatal Sepsis	Journal of Evolution of Medical and Dental Sciences-Jemds	Manuscript	English	India	Incomplete/No pathogen breakdown
Staneva	2016	Sepsis in neonatal hospitalizations: An analysis of mississippi hospital discharge data	Open Forum Infectious Diseases. Conference: ID Week	Conference Abstract	English	USA	Sample type
Guerrero-Lozano	2012	Sepsis in neonates: Experience in a tertiary-care hospital	Critical Care. Conference: Sepsis	Conference Abstract	English	Spain	Incomplete/No pathogen breakdown
Chowdhury	2013	Serial Crp in Relation to Hematological Parameter & Microbiological Parameter for Early Diagnosis of Neonatal Septicemia in Developing Countries	Intensive Care Medicine	Conference Abstract	English	Bangladesh	Sample type
Lean	2015	Stable rates of neonatal sepsis in a tertiary neonatal unit	J Paediatr Child Health	Manuscript	English	Australia	Incomplete/No pathogen breakdown
Schlapbach	2016	Severe Sepsis with Bacteremia in Children in Switzerland - Results from the Swiss Pediatric Sepsis Study	European Journal of Pediatrics	Conference Abstract	English	Switzerland	Infacts data not reported
Quddus	2019	Study of Risk Factors, Causative Organisms & Their Sensitivity Pattern in Neonatal Sepsis in a Community Based Tertiary Level Hospital	Mymensingh Med J	no PDF	no PDF	no PDF	Full-text unavailable
Zhou	2015	Successful reduction in central line-associated bloodstream infections in a Chinese neonatal intensive care unit	Am J Infect Control	Manuscript	English	China	Sample size
Crivaro	2015	Surveillance of healthcare-associated infections in a neonatal intensive care unit in Italy during 2006-2010	BMC Infect Dis	Manuscript	English	Italy	Sample type
Acquah	2013	Susceptibility of bacterial etiological agents to commonly-used antimicrobial agents in children with sepsis at the Tamale Teaching Hospital	BMC Infect Dis	Manuscript	English	Ghana	Sample size
Furyk	2011	Systematic review: neonatal meningitis in the developing world	Trop Med Int Health	Review	English	Multiple	Review
White	2018	Temporal trends in paediatric bacterial meningitis in a tropical Australian region: 1992-2014	J Paediatr Child Health	Manuscript	English	Australia	Sample type
Xiao	2017	The Analysis of Etiology and Risk Factors for 192 Cases of Neonatal Sepsis	Biomed Res Int	Manuscript	English	China	Sample size
Derynck	2015	Short-term and long-term outcomes of neonatal gram-negative sepsis in canadian NICUs	Paediatrics and Child Health (Canada)	Conference Abstract	English	Canada	Incomplete/No pathogen breakdown
Dias	2010	The bacterial profile of neonatal septicaemia in a rural hospital in south India	Journal of Clinical and Diagnostic Research	Manuscript	English	India	Sample size
Chiabi	2011	The clinical and bacteriological spectrum of neonatal sepsis in a tertiary hospital in yaounde, cameroon	Iran J Pediatr	Manuscript	English	Cameroon	Sample size
Ouchenir	2017	The Epidemiology, Management, and Outcomes of Bacterial Meningitis in Infants	Pediatrics	Manuscript	English	Canada	Sample size
Almatti	2014	The incidence and the microbial pattern of neonatal sepsis in Jordan	Archives of Disease in Childhood	Manuscript	English	Amman, Jordan	Sample size
Bhat	2010	The performance of haematological screening parameters and CRP in early onset neonatal infections	Journal of Clinical and Diagnostic Research	Manuscript	English	India	Incomplete/No pathogen breakdown
Shuba	2015	Study of profile of nosocomial blood stream infection in PICU	Indian Journal of Critical Care Medicine	Conference Abstract	English	India	Infacts data not reported
Folgori	2018	The relationship between Gram-negative colonization and bloodstream infections in neonates: a systematic review and meta-analysis	Clin Microbiol Infect	Review	English	Multiple	Review
Banerjee	2017	The association between late-onset gram negative bloodstream infection and gastrointestinal pathology in infants hospitalised in neonatal units	Journal of Paediatrics and Child Health	Conference Abstract	English	United Kingdom	Incomplete/No pathogen breakdown
Ree	2017	Thrombocytopenia in neonatal sepsis: Incidence, severity and risk factors	PLoS One	Manuscript	English	France	Incomplete/No pathogen breakdown
Sundeeep	2011	Time to Positivity of Neonatal Blood Culturescategory: Lesson in Microbiology & Infection Control	Journal of Infection	Withdrawn	Withdrawn	Withdraw	Withdrawn manuscript
Hanno	2012	The prevalence, causative organisms, clinical manifestations and risk factors associated with neonatal sepsis at the University Hospital of the West Indies: A 5-year review	West Indian Medical Journal	Conference Abstract	English	West Indies	Incomplete/No pathogen breakdown
Pharande	2018	Trends in late-onset sepsis in a neonatal intensive care unit following implementation of infection control bundle: A 15-year audit	J Paediatr Child Health	Manuscript	English	Australia	Sample type

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Gindeel	2019	The yield of blood cultures performed at Tawam Hospital for all children from all department	Journal of Infection and Public Health	Conference Abstract	English	United Arab Emirates	Infacts data not reported
Chang	2016	Urinary Imaging Findings in Young Infants With Bacteremic Urinary Tract Infection	Hosp Pediatr	Manuscript	English	USA	Sample type
Zhao	2015	Use of carbapenem antibacterials in neonatal septicemia	Pharmaceutical Care and Research	Manuscript	Chinese	China	Incomplete/No pathogen breakdown
Ganesh	2012	Acinetobacter species - An emerging pathogen in neonatal septicemia	Australasian Medical Journal	Manuscript	English	India	Duplicate data
Ran	2016	Trends in Epidemiology of Late-Onset Sepsis in Extremely Low Birth Weight Infants	European Journal of Pediatrics	Conference Abstract	English	Netherland	Infacts data not reported
Marzban	2010	Neonatal late-onset sepsis in a NICU: Analysis of causative organisms and antimicrobial susceptibility all-asghar-children hospital from (2004/5-2007/5), Tehran, Iran	Early Human Development	Manuscript	English	Iran	Duplicate data
Yasmeen	2011	Trends in nosocomial infection rates over an 8 year period on a tertiary neonatal unit	Archives of Disease in Childhood: Fetal and Neonatal Edition	Conference Abstract	English	United Kingdom	Incomplete/No pathogen breakdown
Osorio	2015	Time bacterial growth in blood cultures in neonates	Revista Chilena de Pediatria	Manuscript	Spanish	Columbia	Duplicate data
Pharande	2018	Trends in late onset sepsis in a neonatal intensive care unit following implementation of infection control bundle: A 10 year audit	Journal of Paediatrics and Child Health	Manuscript	English	Australia	Duplicate data
Choudhry	2017	Use of colistin for the treatment of multi drug resistant isolates in neonates	J Pak Med Assoc	Manuscript	English	Pakistan	Incomplete/No pathogen breakdown
Cagan	2017	Use of Colistin in a Neonatal Intensive Care Unit: A Cohort Study of 65 Patients	Medical Science Monitor	Manuscript	English	Turkey	Incomplete/No pathogen breakdown
Vives	2012	Use of real-time polymerase chain reaction to detect bacterial DNA: Can it help us to diagnose neonatal sepsis in the Neonatal Intensive Care Unit?	Journal of Maternal-Fetal and Neonatal Medicine	Manuscript	English	Spain	Sample size
Phiapalath	2014	Validation of an Antibiotic Stewardship Program's Neonatal Intensive Care Unit Antibiotic Use Guidelines Using Sterile Site Culture Results	Journal of Investigative Medicine	Conference Abstract	English	unspecified	Incomplete/No pathogen breakdown
Ani	2015	Variations in organism-specific severe sepsis mortality in the United States: 1999-2008	Crit Care Med	Manuscript	English	USA	Infacts data not reported
Pereira	2019	Very low birth weight newborns, Portuguese national multicentre study 2010-2017	Journal of Neonatal-Perinatal Medicine	Conference Abstract	English	Portugal	Incomplete/No pathogen breakdown
Novosad	2016	Vital Signs: Epidemiology of Sepsis: Prevalence of Health Care Factors and Opportunities for Prevention	MMWR Morb Mortal Wkly Rep	Manuscript	English	USA	Sample size
Leibson	2012	Microbiological characteristics of pathogens causing bacteremia among hospitalized pediatric oncology patients with fever and neutropenia	Harefuah	Manuscript	Hebrew	Israel	Subgroup (oncology patients)
Calles	2018	Epidemiology of UK neonatal infections: the neonIN infection surveillance network	Arch Dis Child Fetal Neonatal Ed	Manuscript	English	United Kindom	Sample type
Kabwe	2016	Etiology, Antibiotic Resistance and Risk Factors for Neonatal Sepsis in a Large Referral Center in Zambia	Pediatr Infect Dis J	Manuscript	English	Zambia	Outbreak during study period
Shrestha	2014	Frequency of Blood Culture Isolates and their Antibigram in a Teaching hospital	JNMA J Nepal Med Assoc	Manuscript	English	Nepal	Infacts data not reported
Ho	2010	Long-term characteristics of healthcare-associated infections in a neonatal intensive care unit	J Microbiol Immunol Infect	Manuscript	English	Taiwan	Sample type
Vergnano	2011	Neonatal infections in England: the NeonIN surveillance network	Arch Dis Child Fetal Neonatal Ed	Manuscript	English	England	Sample type
L. L. Genes, J., Mir, R., Cespedes, E., Mendieta, E.	2013	Neonatal sepsis in very-low birth-weight newborns over an 11 year period	Pediatrics	Manuscript	Spanish	Paraguay	Incomplete/No pathogen breakdown
Pammi	2014	Polymicrobial bloodstream infections in the neonatal intensive care unit are associated with increased mortality: a case-control study	BMC Infect Dis	Manuscript	English	USA	s are matched and therefore don't reflect popul
Ogunlesi	2010	Predictors of mortality in neonatal septicemia in an underresourced setting	J Natl Med Assoc	Manuscript	English	Nigeria	Incomplete/No pathogen breakdown
Viswanathan	2012	Profile of neonatal septicemia at a district-level sick newborn care unit	J Health Popul Nutr	Manuscript	English	India	Outbreak during study period
Ladhani	2019	Risk of invasive bacterial infections by week of age in infants: prospective national surveillance, England, 2010-2017	Arch Dis Child	Manuscript	English	United Kingdom	Incomplete/No pathogen breakdown
Mendoza	2015	Time bacterial growth in blood cultures in neonates	Rev Chil Pediatr	Manuscript	Spanish	Columbia	Sample size
Okike	2014	Trends in bacterial, mycobacterial, and fungal meningitis in England and Wales 2004-11: an observational study	Lancet Infect Dis	Manuscript	English	England, Wales	Incomplete/No pathogen breakdown
Sana	2017	Pattern of Gram-negative bloodstream infections and their antibiotic susceptibility profiles in a neonatal intensive care unit. (Special Issue: Gram-negative bacteria.)	Journal of Hospital Infection	Manuscript	English	Pakistan	Duplicate data (overlapping with Sana 2019)
Zhu	2015	Analysis of pathogenic bacteria and drug resistance in neonatal purulent meningitis	Zhonghua Er Ke Za Zhi	Manuscript	Chinese	China	Sample type

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1	Tran	2015	A high burden of late-onset sepsis among newborns admitted to the largest neonatal unit in central Vietnam	J Perinatol	35	Online	Manuscript	English	Vietnam	Blood culture
2	Collaborative Study Group for Neonatal Bacterial	2018	A multicenter epidemiological study of neonatal bacterial meningitis in parts of South China	Zhonghua Er Ke Za Zhi	56	Online	Manuscript	Chinese	China	CSF/Blood culture
3	Kohli-Kochhar	2011	A ten-year review of neonatal bloodstream infections in a tertiary private hospital in Kenya	J Infect Dev Ctries	5	Online	Manuscript	English	Kenya	Blood culture
4	Viswanathan	2011	Aetiology and antimicrobial resistance of neonatal sepsis at a tertiary care centre in eastern India: a 3 year study	Indian J Pediatr	78	Online	Manuscript	English	India	Blood culture
6	Huang	2010	Analysis of positive culture results of pathogens from neonatal septicemia cases in Guangdong Province	China Tropical Medicine	10	Online	Manuscript	Chinese	China	Blood culture
7	Vaniya	2015	Antimicrobial culture sensitivity pattern in neonatal sepsis in a tertiary-care hospital	International Journal of Medical Science and Public Health	5	Online	Manuscript	English	India	Blood culture
8	Arnason	2010	Bacteraemia in children in Iceland 1994-2005	Acta Paediatr	99	Online	Manuscript	English	Iceland	Blood culture
9	Gwee	2012	Bacteraemia in Malawian neonates and young infants 2002-2007: a retrospective audit	BMJ Open	2	Online	Manuscript	English	Malawi	Blood culture
10	Gomez	2015	Bacteremia in previously healthy children in emergency departments: clinical and microbiological characteristics and outcome	Eur J Clin Microbiol Infect Dis	34	Online	Manuscript	English	Spain	Blood culture
11	G/eyesus	2017	Bacterial etiologic agents causing neonatal sepsis and associated risk factors in Gondar, Northwest Ethiopia	BMC Pediatrics	17	Online	Manuscript	English	Ethiopia	Blood culture
12	Srinivasa	2014	Bacterial isolates and their antibiotic susceptibility patterns in neonatal sepsis	Current Pediatric Research	18	Online	Manuscript	English	India	Blood culture
13	Bhat	2011	Bacterial isolates of early-onset neonatal sepsis and their antibiotic susceptibility pattern between 1998 and 2004: an audit from a center in India	Italian Journal of Pediatrics	37	Online	Manuscript	English	India	Blood culture
14	Swann	2014	Bacterial meningitis in Malawian infants <2 months of age: etiology and susceptibility to World Health Organization first-line antibiotics	Pediatr Infect Dis J	33	Online	Manuscript	English	Malawi	CSF culture
15	Palwinder	2017	Bacteriological profile and antibiogram of community acquired neonatal sepsis in a tertiary care hospital; a prospective study	Annals of International Medical and Dental Research	3	Online	Manuscript	English	India	Blood culture
16	Bhatt	2012	Bacteriological profile and antibiogram of neonatal septicemia	National Journal of Community Medicine	3	Online	Manuscript	English	India	Blood culture
17	Gyawali	2013	Bacteriological profile and antibiogram of neonatal septicemia	Indian J Pediatr	80	Online	Manuscript	English	Nepal	Blood culture
18	Thakur	2016	Bacteriological profile and antibiotic sensitivity pattern of neonatal septicaemia in a rural tertiary care hospital in North India	Indian J Med Microbiol	34	Online	Manuscript	English	India	Blood culture
19	Shreekant	2015	Bacteriological profile and their antibiotic sensitivity pattern in neonatal septicemia	International Journal of Current Microbiology and Applied Sciences	4	Online	Manuscript	English	India	Blood culture
20	Marwah	2015	Bacteriological profile of neonatal sepsis in a tertiary-care hospital of Northern India	Indian Pediatr	52	Online	Manuscript	English	India	Blood culture
21	Katiyar	2012	Bacteriological profile of neonatal septicemia in pravara rural hospital	Pravara Medical Review	4	Online	Manuscript	English	India	CSF/Blood culture
22	Oommen	2015	Bacteriological Profile of Neonatal Septicemia: A Retrospective Analysis from a Tertiary Care Hospital in Loni	International Journal of Medical Research & Health Sciences	4	Online	Manuscript	English	India	CSF/Blood culture
23	Lamba	2016	Bacteriological spectrum and antimicrobial susceptibility pattern of neonatal septicaemia in a tertiary care hospital of North India	J Matern Fetal Neonatal Med	29	Online	Manuscript	English	India	Blood culture
24	Patel	2014	Blood culture isolates in neonatal sepsis and their sensitivity in Anand District of India	Indian J Pediatr	81	Online	Manuscript	English	India	Blood culture
25	Lee	2015	Blood Culture Proven Early Onset Sepsis and Late Onset Sepsis in Very-Low-Birth-Weight Infants in Korea	J Korean Med Sci	30 Suppl 1	Online	Manuscript	English	South Korea	Blood culture

Running Number	First Author	Year	Title	Journal	Volume	Search	Type	Language	Country	Sample Type
26	Ipek	2016	Bloodstream infections in a neonatal intensive care unit	Journal of Clinical and Analytical Medicine	7	Online	Manuscript	English	Turkey	Blood culture
27	Papadimitriou	2012	Bloodstream infections in a neonatal intensive care unit: A 2-year study	Clinical Microbiology and Infection	18	Online	Conference Abstract	English	Greece	Blood culture
28	Tsai	2015	Breakthrough bacteremia in the neonatal intensive care unit: incidence, risk factors, and attributable mortality	Am J Infect Control	43	Online	Manuscript	English	Taiwan	Blood culture
29	Najeeb	2012	Causative bacteria and antibiotic resistance in neonatal sepsis	J Ayub Med Coll Abbottabad	24	Online	Manuscript	English	Pakistan	Blood culture
30	Yilmaz	2010	Change in Pathogens Causing Late-onset Sepsis in Neonatal Intensive Care Unit in Izmir, Turkey	Iran J Pediatr	20	Online	Manuscript	English	Turkey	Blood culture
31	Mintz	2020	Changing epidemiology and resistance patterns of pathogens causing neonatal bacteremia	Eur J Clin Microbiol Infect Dis	39	Online	Manuscript	English	Israel	CSF/Blood culture
32	Chen	2015	Changing of bloodstream infections in a medical center neonatal intensive care unit	J Microbiol Immunol Infect	50	Online	Manuscript	English	Taiwan	Blood culture
33	Roy	2017	Changing trend in bacterial etiology and antibiotic resistance in sepsis of intramural neonates at a tertiary care hospital	J Postgrad Med	63	Online	Manuscript	English	India	Blood culture
34	Ogunlesi	2011	Changing trends in newborn sepsis in Sagamu, Nigeria: bacterial aetiology, risk factors and antibiotic susceptibility	J Paediatr Child Health	47	Online	Manuscript	English	Nigeria	Blood culture
35	Chaurasia	2016	Characterisation and antimicrobial resistance of sepsis pathogens in neonates born in tertiary care centres in Delhi, India: a cohort study	Lancet Global Health	4	Online	Manuscript	English	India	CSF/Blood culture
36	Abdulrahman	2019	Characteristics of neonatal sepsis at a tertiary care hospital in Saudi Arabia	Journal of Infection and Public Health	12	Online	Manuscript	English	Saudi Arabia	Blood culture
37	Guo	2019	Clinical Characteristic and Pathogen Spectrum of Neonatal Sepsis in Guangzhou City from June 2011 to June 2017	Med Sci Monit	25	Online	Manuscript	English	China	Blood culture
38	Li	2018	Clinical characteristics and etiology of bacterial meningitis in Chinese children >28 days of age, January 2014-December 2016: A multicenter retrospective study	Int J Infect Dis	74	Online	Manuscript	English	China	CSF/Blood culture
39	Wang	2018	Clinical Characteristics of Nosocomial Bloodstream Infections in Neonates in Two Hospitals, China	J Trop Pediatr	64	Online	Manuscript	English	China	Blood culture
40	Jiang	2017	Clinical characteristics of septicemia among premature infants and term infants in neonatal intensive care unit	Maternal and Child Health Care of China	32	Online	Manuscript	Chinese	China	Blood culture
41	Li	2019	Clinical features and antimicrobial susceptibility profiles of culture-proven neonatal sepsis in a tertiary children's hospital, 2013 to 2017	Medicine	98	Online	Manuscript	English	China	CSF/Blood culture
42	Bulkowstein	2016	Comparison of early onset sepsis and community-acquired late onset sepsis in infants less than 3 months of age	BMC Pediatrics	16	Online	Manuscript	English	Israel	CSF/Blood culture
43	Resch	2015	Comparison of pathogen associated laboratory and clinical parameters in early-onset sepsis of the newborn	Journal of Perinatal Medicine. Conference: 12th World Congress of Perinatal Medicine	43	Online	Manuscript	English	Austria	Blood culture
44	Hammoud	2017	Culture-proven early-onset neonatal sepsis in Arab states in the Gulf region: two-year prospective study	Int J Infect Dis	55	Online	Manuscript	English	UAE, Kuwait, Saudi Arabia	CSF/Blood culture
45	Stoll	2011	Early onset neonatal sepsis: the burden of group B Streptococcal and E. coli disease continues	Pediatrics	127	Online	Manuscript	English	USA	CSF/Blood culture
46	Singh	2019	Early-onset neonatal infections in Australia and New Zealand, 2002-2012	Archives of Disease in Childhood	104	Online	Manuscript	English	Australia, New Zealand	CSF/Blood culture
47	Sgro	2011	Early-onset neonatal sepsis: rate and organism pattern between 2003 and 2008	J Perinatol	31	Online	Manuscript	English	Canada	CSF/Blood culture
48	Jiang	2020	Early-onset sepsis among preterm neonates in China, 2015 to 2018	Pediatric Infectious Disease Journal		Online	Manuscript	English	China	CSF/Blood culture
49	Fjalstad	2016	Early-onset Sepsis and Antibiotic Exposure in Term Infants: A Nationwide Population-based Study in Norway	Pediatr Infect Dis J	35	Online	Manuscript	English	Norway	CSF/Blood culture

Running Number	First Author	Year	Title	Journal	Volume	Search	Type	Language	Country	Sample Type
50	Fahmey	2013	Early-onset sepsis in a neonatal intensive care unit in Beni Suef, Egypt: bacterial isolates and antibiotic resistance pattern	Korean J Pediatr	56	Online	Manuscript	English	Egypt	Blood culture
51	Muller-Pebody	2011	Empirical treatment of neonatal sepsis: are the current guidelines adequate?	Arch Dis Child Fetal Neonatal Ed	96	Online	Manuscript	English	England, Wales	Blood culture
52	Hartel	2012	Epidemic microclusters of blood-culture proven sepsis in very-low-birth weight infants: experience of the German Neonatal Network	PLoS One	7	Online	Manuscript	English	Germany	Blood culture
53	Berardi	2019	Epidemiology and complications of late-onset sepsis: an Italian area-based study	PLoS One	14	Online	Manuscript	English	Italy	CSF/Blood culture
54	Biondi	2013	Epidemiology of bacteremia in febrile infants in the United States	Pediatrics	132	Online	Manuscript	English	USA	Blood culture
55	Mischler	2015	Epidemiology of Bacteremia in Previously Healthy Febrile Infants: A Follow-up Study	Hosp Pediatr	5	Online	Manuscript	English	USA	Blood culture
56	Agyeman	2017	Epidemiology of blood culture-proven bacterial sepsis in children in Switzerland: a population-based cohort study	Lancet Child Adolesc Health	1	Online	Manuscript	English	Switzerland	Blood culture
57	Ting	2015	Epidemiology of community-acquired bacteremia among infants in a medical center in Taiwan, 2002-2011	J Microbiol Immunol Infect	48	Online	Manuscript	English	Taiwan	Blood culture
58	Gkentzi	2019	Epidemiology of infections and antimicrobial use in Greek Neonatal Units	Archives of Disease in Childhood-Fetal and Neonatal Edition	104	Online	Manuscript	English	Greek	CSF/Blood culture
59	Schrag	2016	Epidemiology of Invasive Early-Onset Neonatal Sepsis, 2005 to 2014	Pediatrics	138	Online	Manuscript	English	USA	CSF/Blood culture
60	El-Naggar	2019	Epidemiology of Meningitis in Canadian Neonatal Intensive Care Units	Pediatr Infect Dis J	38	Online	Manuscript	English	Canada	CSF culture
61	Shehab El-Din	2015	Epidemiology of Neonatal Sepsis and Implicated Pathogens: A Study from Egypt	Biomed Res Int	2015	Online	Manuscript	English	Egypt	Blood culture
62	Ramchandrar	2019	Epidemiology of Serious Bacterial Infections in Infants Less Than 90 Days in a Military Health System Cohort	Pediatric Infectious Disease Journal	38	Online	Manuscript	English	USA	CSF/Blood culture
64	Xu	2019	Etiology and Clinical Features of Full-Term Neonatal Bacterial Meningitis: A Multicenter Retrospective Cohort Study	Front Pediatr	7	Online	Manuscript	English	China	CSF/Blood culture
66	Lin	2015	Evolving trends of neonatal and childhood bacterial meningitis in northern Taiwan	J Microbiol Immunol Infect	48	Online	Manuscript	English	Taiwan	CSF culture
67	Blackburn	2012	Exploring the Epidemiology of Hospital-Acquired Bloodstream Infections in Children in England (January 2009-March 2010) by Linkage of National Hospital Admissions and Microbiological Databases	J Pediatric Infect Dis Soc	1	Online	Manuscript	English	England	Blood culture
68	Zhao	2018	Five-Year Multicenter Study of Clinical Tests of Neonatal Purulent Meningitis	Clin Pediatr (Phila)	57	Online	Manuscript	English	China	CSF/Blood culture
70	Mpinda-Joseph	2019	Healthcare-associated infections including neonatal bloodstream infections in a leading tertiary hospital in Botswana	Hosp Pract (1995)	47	Online	Manuscript	English	Botswana	Blood culture
71	Johnson	2020	High Burden of Bloodstream Infections Associated with Antimicrobial Resistance and Mortality in the Neonatal Intensive Care Unit in Pune, India	Clin Infect Dis	18	Online	Manuscript	English	India	Blood culture
72	Aletayeb	2011	Identification of bacterial agents and antimicrobial susceptibility of neonatal sepsis: A 54-month study in a tertiary hospital	African Journal of Microbiology Research	5	Online	Manuscript	English	Iran	Blood culture
73	Kuhn	2010	Incidence and distribution of pathogens in early-onset neonatal sepsis in the era of antenatal antibiotics	Paediatr Perinat Epidemiol	24	Online	Manuscript	English	France	CSF/Blood culture
74	Hammoud	2012	Incidence, aetiology and resistance of late-onset neonatal sepsis: a five-year prospective study	J Paediatr Child Health	48	Online	Manuscript	English	Kuwait	CSF/Blood culture
75	Hsu	2015	Incidence, clinical characteristics and attributable mortality of persistent bloodstream infection in the neonatal intensive care unit	PLoS One	10	Online	Manuscript	English	Taiwan	Blood culture
76	Wu	2017	Incidence, clinical features, and implications on outcomes of neonatal late-onset sepsis with concurrent infectious focus	BMC Infect Dis	17	Online	Manuscript	English	Taiwan	Blood culture

Running Number	First Author	Year	Title	Journal	Volume	Search	Type	Language	Country	Sample Type
77	Okike	2014	Incidence, etiology, and outcome of bacterial meningitis in infants aged <90 days in the United Kingdom and Republic of Ireland: prospective, enhanced, national population-based surveillance	Clin Infect Dis	59	Online	Manuscript	English	United Kingdom, Republic of Ireland	CSF culture
78	Talbert	2010	Invasive bacterial infections in neonates and young infants born outside hospital admitted to a rural hospital in Kenya	Pediatr Infect Dis J	29	Online	Manuscript	English	Kenya	CSF/Blood culture
79	Grisaru-Soen	2012	Late-onset bloodstream infections in preterm infants: a 2-year survey	Pediatr Int	54	Online	Manuscript	English	Israel	Blood culture
80	Wojkowska-Mach	2014	Late-onset bloodstream infections of Very-Low-Birth-Weight infants: data from the Polish Neonatology Surveillance Network in 2009-2011	BMC Infect Dis	14	Online	Manuscript	English	Poland	Blood culture
81	Gowda	2017	Late-onset Neonatal Sepsis-A 10-year Review From North Queensland, Australia	Pediatr Infect Dis J	36	Online	Manuscript	English	Australia	CSF or Blood culture
82	Boghossian	2013	Late-onset sepsis in very low birth weight infants from singleton and multiple-gestation births	J Pediatr	162	Online	Manuscript	English	USA	Blood culture
84	van den Hoogen	2009	Long-term trends in the epidemiology of neonatal sepsis and antibiotic susceptibility of causative agents	Neonatology	97	Online	Manuscript	English	Netherlands	Blood culture
85	Patel	2012	Microbial profile by Bactec in a level three neonatal intensive care unit in rural western India	Archives of Disease in Childhood	97	Online	Conference abstract	English	India	Blood culture
86	Abhishek	2014	Microbial profile of neonatal septicaemia in a tertiary care hospital of Bhopal	International Journal of Biomedical and Advance Research	5	Online	Manuscript	English	India	Blood culture
87	Dumelow	2015	Microbiological flora and their sensitivities to antibiotics, in a tertiary neonatal unit at north east of England	Archives of Disease in Childhood	100	Online	Conference abstract	English	England	Blood culture
88	Omeregbe	2013	Microbiology of neonatal septicemia in a tertiary hospital in Benin City, Nigeria	Biomarkers and Genomic Medicine	5	Online	Manuscript	English	Nigeria	Blood culture
89	Awad	2016	Multidrug-resistant organisms in neonatal sepsis in two tertiary neonatal ICUs, Egypt	J Egypt Public Health Assoc	91	Online	Manuscript	English	Egypt	Blood culture
90	Huggard	2016	Neonatal Bacteraemia Among 112,360 Live Births	Ir Med J	109	Online	Manuscript	English	Ireland	Blood culture
91	Hafsa	2011	Neonatal bacteremia in a neonatal intensive care unit: Analysis of causative organisms and antimicrobial susceptibility	Bangladesh Journal of Medical Science	10	Online	Manuscript	English	Bangladesh	Blood culture
92	Gaschnigard	2011	Neonatal Bacterial Meningitis: 444 Cases in 7 Years	Pediatr Infect Dis J	30	Online	Manuscript	English	France	CSF culture
93	Labi	2016	Neonatal bloodstream infections in a Ghanaian Tertiary Hospital: Are the current antibiotic recommendations adequate?	BMC Infect Dis	16	Online	Manuscript	English	Ghana	Blood culture
94	Kruse	2013	Neonatal bloodstream infections in a pediatric hospital in Vietnam: a cohort study	J Trop Pediatr	59	Online	Manuscript	English	Vietnam	Blood culture
95	Al-Taiar	2013	Neonatal infections in China, Malaysia, Hong Kong and Thailand	Arch Dis Child Fetal Neonatal Ed	98	Online	Manuscript	English	Malaysia, Hong Kong, Thailand	CSF/Blood culture
97	Dramowski	2015	Neonatal nosocomial bloodstream infections at a referral hospital in a middle-income country: burden, pathogens, antimicrobial resistance and mortality	Paediatr Int Child Health	35	Online	Manuscript	English	South Africa	Blood culture
98	Boulos	2017	Neonatal Sepsis in Haiti	J Trop Pediatr	63	Online	Manuscript	English	Haiti	Blood culture
100	Giannoni	2018	Neonatal Sepsis of Early Onset, and Hospital-Acquired and Community-Acquired Late Onset: A Prospective Population-Based Cohort Study	J Pediatr	201	Online	Manuscript	English	Switzerland	Blood culture
101	Muhammad	2010	Neonatal sepsis: causative bacteria and their resistance to antibiotics	J Ayub Med Coll Abbottabad	22	Online	Manuscript	English	Pakistan	Blood culture
102	Shyamali	2017	Neonatal sepsis-organisms responsible as detected by blood culture	Journal of Evolution of Medical and Dental Sciences	6	Online	Manuscript	English	India	Blood culture
103	Mukherjee	2019	Neonatal sepsis-trends in a peripheral tertiary health care facility of eastern India	Journal of Evolution of Medical and Dental Sciences	8	Online	Manuscript	English	India	Blood culture

Running Number	First Author	Year	Title	Journal	Volume	Search	Type	Language	Country	Sample Type
104	Al-Talib	2013	Neonatal septicemia in neonatal intensive care units: Epidemiological and microbiological analysis of causative organisms and antimicrobial susceptibility	International Medical Journal	20	Online	Manuscript	English	Iraq	Blood culture
105	Ansari	2015	Neonatal Septicemia in Nepal: Early-Onset versus Late-Onset	Int J Pediatr	2015	Online	Manuscript	English	Nepal	Blood culture
106	Sharma	2015	Neonatal septicemia in NICU of a tertiary care center in north India due to extended spectrum beta lactamase (ESBL) producing bacteria	Indian Journal of Basic and Applied Medical Research	5	Online	Manuscript	English	India	Blood culture
107	Rao	2012	Neonatal septicemia in north india due to extended spectrum beta lactamase (ESBL) producing gram negative bacteria	International Journal of Pharma and Bio Sciences	3	Online	Manuscript	English	India	Blood culture
108	Ergaz	2013	No change in antibiotic susceptibility patterns in the neonatal ICU over two decades	Pediatr Crit Care Med	14	Online	Manuscript	English	Israel	CSF/Blood culture
109	Bas	2010	Nosocomial blood stream infections in a neonatal intensive care unit in Ankara, Turkey	Turk J Pediatr	52	Online	Manuscript	English	Turkey	Blood culture
110	Lu	2016	Pathogen and antimicrobial resistance profiles of culture-proven neonatal sepsis in Southwest China, 1990-2014	J Paediatr Child Health	52	Online	Manuscript	English	China	Blood culture
111	Cheng	2019	Pathogens and clinical features of preterm infants with sepsis	Zhongguo Dang Dai Er Ke Za Zhi	21	Online	Manuscript	Chinese	China	Blood culture
112	Abbasi	2015	Pathogens and their drug sensitivity pattern in neonatal sepsis at a tertiary care hospital Larkana	Pakistan Pediatric Journal	39	Online	Manuscript	English	Pakistan	Blood culture
113	Reichert	2016	Pathogen-Specific Clustering of Nosocomial Blood Stream Infections in Very Preterm Infants	Pediatrics	137	Online	Manuscript	English	Germany	CSF/Blood culture
114	Piening	2017	Pathogen-specific mortality in very low birth weight infants with primary bloodstream infection	PLoS One	12	Online	Manuscript	English	Germany	CSF/Blood culture
115	Dhanawade	2015	Pattern and antimicrobial susceptibility of neonatal sepsis at a tertiary care center in western India	Journal of Pediatric Infectious Diseases	10	Online	Manuscript	English	India	Blood culture
116	Al-Taiar	2011	Pattern and etiology of culture-proven early-onset neonatal sepsis: a five-year prospective study	Int J Infect Dis	15	Online	Manuscript	English	Kuwait	CSF/Blood culture
117	Sana	2019	Pattern of Blood Stream Infections and their antibiotic susceptibility profile in a Neonatal intensive care unit of a tertiary care hospital; a current perspective	J Pak Med Assoc	69	Online	Manuscript	English	Pakistan	Blood culture
120	Skogberg	2012	Population-based burden of bloodstream infections in Finland	Clin Microbiol Infect	18	Online	Manuscript	English	Finland	Blood culture
122	Kayange	2010	Predictors of positive blood culture and deaths among neonates with suspected neonatal sepsis in a tertiary hospital, Mwanza-Tanzania	BMC Pediatr	10	Online	Manuscript	English	Tanzania	Blood culture
123	Lim	2012	Prevalence and pathogen distribution of neonatal sepsis among very-low-birth-weight infants	Pediatr Neonatol	53	Online	Manuscript	English	Taiwan	Blood culture
124	Gangurde	2011	Prevalence of extended-spectrum p-lactamase mediated resistance in neonatal septicemia	Pravara Medical Review	3	Online	Manuscript	English	India	Blood culture
125	Aamir	2015	Prevalence of multidrug resistant bacteria causing late-onset neonatal sepsis	International Journal of Current Microbiology and Applied Sciences	4	Online	Manuscript	English	Egypt	Blood culture
126	Annapurna	2018	Profile of Bacterial Isolates in Neonatal Blood Culture and Their Antibiotic Susceptibility Patterns (Antibiogram) in Neonatal Sepsis at a Tertiary Care Hospital NICU in South India	Journal of Evolution of Medical and Dental Sciences-Jemds	7	Online	Manuscript	English	India	Blood culture
128	Shah	2015	Risk Factors and Outcomes of Late-Onset Bacterial Sepsis in Preterm Neonates Born at < 32 Weeks' Gestation	Am J Perinatol	32	Online	Manuscript	English	Canada	CSF/Blood culture
129	Wu	2012	Risk factors and pathogen distribution in premature infants with nosocomial sepsis	Zhongguo Dang Dai Er Ke Za Zhi	14	Online	Manuscript	Chinese	China	Blood culture
130	Ertugrul	2016	Risk Factors for Health Care-Associated Bloodstream Infections in a Neonatal Intensive Care Unit	Iran J Pediatr	26	Online	Manuscript	English	Turkey	Blood culture
131	Kung	2013	Risk factors of late-onset neonatal sepsis in Taiwan: A matched case-control study	J Microbiol Immunol Infect	49	Online	Manuscript	English	Taiwan	Blood culture

Running Number	First Author	Year	Title	Journal	Volume	Search	Type	Language	Country	Sample Type
133	Zingg	2011	Secular trends in antibiotic use among neonates: 2001-2008	Pediatr Infect Dis J	30	Online	Manuscript	English	Switzerland	Blood culture
134	West	2012	Sensitivity pattern among bacterial isolates in neonatal septicaemia in port Harcourt	Ann Clin Microbiol Antimicrob	11	Online	Manuscript	English	Nigeria	Blood culture
135	Mushtaq	2013	Sensitivity pattern among bacterial isolates in neonatal septicaemia in tertiary care hospital	Pakistan Journal of Medical and Health Sciences	7	Online	Manuscript	English	Pakistan	Blood culture
136	Ohlin	2015	Sepsis as a risk factor for neonatal morbidity in extremely preterm infants	Acta Paediatr	104	Online	Manuscript	English	Sweden	Blood culture
137	Gadallah	2014	Surveillance of health care-associated infections in a tertiary hospital neonatal intensive care unit in Egypt: 1-year follow-up	Am J Infect Control	42	Online	Manuscript	English	Egypt	Blood culture
138	Weston	2011	The burden of invasive early-onset neonatal sepsis in the United States, 2005-2008	Pediatr Infect Dis J	30	Online	Manuscript	English	USA	CSF/Blood culture
139	Cho	2010	The causative organisms of bacterial meningitis in Korean children in 1996-2005	J Korean Med Sci	25	Online	Manuscript	English	South Korea	CSF/Blood culture
140	Greenhow	2014	The changing epidemiology of serious bacterial infections in young infants	Pediatr Infect Dis J	33	Online	Manuscript	English	USA	CSF culture
141	Jiang	2016	The Clinical Characteristics of Neonatal Sepsis Infection in Southwest China	Intern Med	55	Online	Manuscript	English	China	Blood culture
142	Sari	2017	The study of multidrug-resistance in neonatal intensive care unit at the central java hospital	Asian Journal of Pharmaceutical and Clinical Research	10	Online	Manuscript	English	Indonesia	Blood culture
144	Kuzniewicz	2020	Time to Positivity of Neonatal Blood Cultures for Early-onset Sepsis	Pediatr Infect Dis J	39	Online	Manuscript	English	USA	Blood culture
145	Guerti	2011	Time to positivity of neonatal blood cultures: fast and furious?	J Med Microbiol	60	Online	Manuscript	English	Belgium	Blood culture
147	Shim	2011	Trends in epidemiology of neonatal sepsis in a tertiary center in Korea: a 26-year longitudinal analysis, 1980-2005	J Korean Med Sci	26	Online	Manuscript	English	South Korea	Blood culture
148	Pererz Lopez	2013	Trends in paediatric nosocomial bacteraemia in a London tertiary hospital	Acta Paediatr	102	Online	Manuscript	English	England	Blood culture
149	Khan	2012	Trends in patterns of resistance among micro organisms causing neonatal sepsis in Peshawar	Journal of Postgraduate Medical Institute	26	Online	Manuscript	English	Pakistan	CSF/Blood culture
150	Medugu	2017	Trends in profiles of bacteria causing neonatal sepsis in Central Nigeria hospital	African Journal of Clinical and Experimental Microbiology	18	Online	Manuscript	English	Nigeria	Blood culture
151	Spaulding	2018	Epidemiology of Bloodstream Infections in Hospitalized Children in the United States, 2009–2016	Clinical Infectious Diseases	69	Online	Manuscript	English	USA	Blood culture
152	Khan	2011	Bacterial meningitis in North India: trends over a period of eight years	Neurol Asia	16	Review	Manuscript	English	India	CSF/Blood culture
154	Tröger	2014	Risk for late-onset blood-culture proven sepsis in very-low-birth weight infants born small for gestational age: a large multicenter study from the German neonatal	Pediatr Infect Dis J	33	Review	Manuscript	English	German	Blood culture
155	Boo	2016	Factors associated with inter-institutional variations in sepsis rates of very-low-birth-weight infants in 34 Malaysian neonatal intensive care units	Singapore Med J	57	Review	Manuscript	English	Malaysian	CSF/Blood culture
156	Greenberg	2017	Late-onset sepsis in extremely premature infants: 2000–2011	Pediatr Infect Dis J	36	Review	Manuscript	English	USA	Blood culture
157	Sigauque	2018	Invasive bacterial disease trends and characterization of Group B streptococcal isolates among young infants in Southern Mozambique, 2001-2015	PLoS One	13	Review	Manuscript	English	Mozambique	CSF/Blood culture
158	Mengistu	2013	Antimicrobial sensitivity patterns of cerebrospinal fluid (CSF) isolates in Namibia: Implications for empirical antibiotic treatment of meningitis	Journal of pharmaceutical policy and practice	6	Review	Manuscript	English	Namibia	CSF culture
159	Ballot	2012	Bacterial bloodstream infections inneonates in a developing country	ISRN pediatrics	6	Review	Manuscript	English	South Africa	Blood culture

Running Number	First Author	Year	Title	Journal	Volume	Search	Type	Language	Country	Sample Type
160	Lebea	2017	Evaluation of culture-proven neonatal sepsis at a tertiary care hospital in Johannesburg, South Africa	S Afr J Child Health	11	Review	Manuscript	English	South Africa	Blood culture
161	Iregbu	2013	Neonatal infections caused by Escherichia coli at the National Hospital, Abuja: a three-year retrospective study	Afr J Clinl Exp Microbiol	14	Review	Manuscript	English	Nigeria	CSF/Blood culture
162	Nwankwo	2011	Risk factors and bacterial profile of suspected neonatal septicaemia at a Teaching Hospital in Kano, Northwestern, Nigeria	Sierra Leone J Biomed Res	3	Review	Manuscript	English	Nigeria	Blood culture
163	Ambade	2015	Bacteriological and Haematological Profile of Neonatal Sepsis in Rural Teaching Hospital in Central India	Journal of Medical Science And clinical Research	3	Review	Manuscript	English	India	Blood culture
164	Bagla	2013	Antimicrobial susceptibility patterns following change in antibiotic policy in NICU	Pediatric Infectious Disease	5	Review	Manuscript	English	India	Blood culture
165	Desai	2010	Neonatal septicemia: bacterial isolates & their antibiotics susceptibility patterns	NJIRM	1	Review	Manuscript	English	India	Blood culture
166	Madavi	2015	Clinico-bacteriological profile and antibiotic sensitivity pattern of neonatal septicaemia-a prospective observational study	International Journal of Current Research and Review	1	Review	Manuscript	English	India	Blood culture
167	Mehta	2014	Microbial Profile of Neonatal septicaemia in a tertiary care hospital of Bhopal	International Journal of Biomedical and Advance Research	5	Review	Manuscript	English	India	Blood culture
168	Ponugoti	2015	Incidence of Early Onset Septicemia, Isolation and Resistant Patterns of Causative Organisms: A Study in a Tertiary Care Hospital AP	Journal of Medical Science and Clinical Research	3	Review	Manuscript	English	India	Blood culture
169	Rao	2012	Neonatal septicemia in north india due to extended spectrum beta lactamase (ESBL) producing gram negative bacteria	Int J Pharma Bio Sc	3	Review	Manuscript	English	India	Blood culture
170	Sharma	2013a	"Neonatal sepsis": bacteria & their susceptibility pattern towards antibiotics in neonatal intensive care unit	JCDR	7	Review	Manuscript	English	India	Blood culture
171	Sharma	2013b	Staphylococcus aureus-the predominant pathogen in the neonatal ICU of a tertiary care hospital in Amritsar, India	JCDR	7	Review	Manuscript	English	India	Blood culture
172	Vinod Kumar	2011	Change in spectrum of microbial aetiology in relation to gestational age and birth weight and emergence of ESBL in tertiary neonatal intensive care units	Int J Biol Med Res	2	Review	Manuscript	English	India	Blood culture

Item	Criteria	Notes
Item #1	Source of data is either a surveillance system or a study with a clearly defined research question(s) and/or objective(s)	score = 1 if routine surveillance or study with clear question/objectives
Item #2	Surveillance or study population is described in terms of place (geography), centres of recruitment (GP/clinic/hospital) and demographics (age, sex)	score = 1 if surveillance system coverage or study population is described in terms of place, facilities and people; score = 0 if partial or no definition/description
Item #3	Surveillance or study time period is clearly defined	score = 1 if time period is clearly defined/described; score = 0 if partial or no description
Item #4	Surveillance system design/processes or study design/methodology is described (or documented elsewhere)	score = 1 if design, processes and methods are described/documented; score = 0 if partial or no description
Item #5	Type(s) of infection included in/excluded from surveillance/study is(are) clearly defined	score = 1 if types of infection included/excluded are clearly defined; score = 0 if partial or no definition/description
Item #6	Clinical sampling methods are described (type of specimen, method of collection) or use of routine (clinical/surveillance) laboratory data indicated	score = 1 if sampling methods are described or surveillance/study is based on routinely collected laboratory data; score = 0 if partial or no definition/description
Item #7	Laboratory methods are described or use of routine laboratory data indicated	score = 1 if laboratory methods are clearly defined or surveillance/study is based on routinely collected laboratory data; score = 0 if partial or no definition/description
Item #8	Proportions are reported by total number of culture positives, rather than number of patients/samples. Data is presented in tables or pathogen breakdown is described clearly in text.	score = 1 if proportions are clearly reported by total number of culture positives; score = 0 if proportions are unclear reported or described solely in graphs without clear numeric description
Item #9	Surveillance data reported periodically or study findings reported in a peer-reviewed paper	score = 1 if surveillance system has periodic reporting (accessible online) or study has reported findings in a peer-reviewed journal; score = 0 if one-off reporting or conference abstract/poster

Good Score 8 or 9

Fair Score 5 - 7

Poor Score <5

Running Number	Author (Year)	(Cross)-reference	#1	#2	#3	#4	#5	#6	#7	#8	#9	Score	Rating
1	Tran (2015)	Tran HT, Doyle LW, Lee KJ, Dang NM, Graham SM. Morbidity and mortality in hospitalised neonates in central Vietnam. <i>Acta Paediatr</i> 2015; 104:e200–e205	1	1	1	1	1	1	1	1	1	9	Good
2	Collaborative Study Group for Neonatal Bacterial (2018)	N/A	1	1	1	1	1	1	0	1	1	8	Good
3	Kohli-Kochhar (2011)	N/A	1	1	1	1	0	1	1	1	1	8	Good
4	Viswanathan (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
6	Huang (2010)	N/A	1	1	1	1	0	0	1	1	1	7	Fair
7	Vaniya (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
8	Arnason (2010)	N/A	1	1	1	1	1	1	1	0	1	8	Good
9	Gwee (2012)	N/A	1	1	1	1	1	1	1	1	1	9	Good
10	Gomez (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
11	G/eyesus (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
12	Srinivasa (2014)	N/A	1	0	1	1	1	1	1	1	1	8	Good
13	Bhat (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
14	Swann (2014)	N/A	1	1	1	1	1	1	1	1	1	9	Good
15	Palwinder (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
16	Bhatt (2011)	N/A	1	1	1	0	1	0	1	1	1	7	Fair
17	Gyawali (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
18	Thakur (2016)	N/A	1	0	1	1	1	1	1	1	1	8	Good
19	Shreekant (2015)	N/A	1	0	1	1	0	0	1	1	1	6	Fair
20	Marwah (2015)	N/A	1	1	1	1	0	1	0	0	1	6	Fair
21	Katiyar (2012)	N/A	1	1	1	1	0	1	1	1	1	8	Good
22	Oommen (2015)	N/A	1	0	0	1	1	0	1	1	1	6	Fair
23	Lamba (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
24	Patel (2014)	N/A	1	1	1	1	1	1	1	1	1	9	Good
25	Lee (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
26	Ipek (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
27	Papadimitriou (2012)	N/A	0	1	1	0	0	0	0	1	0	4	Poor
28	Tsai (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
29	Najeeb (2012)	N/A	1	1	1	1	1	1	1	1	1	9	Good
30	Yilmaz (2010)	N/A	1	0	0	1	1	1	1	1	1	7	Fair
31	Mintz (2020)	N/A	1	1	1	1	1	1	1	1	1	9	Good

Running Number	Author (Year)	(Cross)-reference	#1	#2	#3	#4	#5	#6	#7	#8	#9	Score	Rating
32	Chen (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
33	Roy (2017)	N/A	1	0	1	1	0	1	1	1	1	7	Fair
34	Ogunlesi (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
35	Chaurasia (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
36	Abdulrahman (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
37	Guo (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
38	Li (2018)	N/A	1	1	1	1	1	0	0	1	1	7	Fair
39	Wang (2018)	N/A	1	1	1	1	1	0	1	1	1	8	Good
40	Jiang (2017)	N/A	1	0	1	0	0	0	1	0	1	4	Poor
41	Li (2019)	N/A	1	1	1	1	1	0	1	1	1	8	Good
42	Bulkowstein (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
43	Resch (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
44	Hammoud (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
45	Stoll (2011)	N/A	1	1	1	1	1	0	1	1	1	8	Good
46	Singh (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
47	Sgro (2011)	Canadian NICU network Lee SK, McMillan DD, Ohlsson A, Pendray M, Synnes A, Whyte R et al. Variations in practice and outcomes in the Canadian NICU network: 1996-1997. Pediatrics 2000; 106(5): 1070-1079.	1	1	1	1	1	1	1	1	1	9	Good
48	Jiang (2020)	N/A	1	1	1	1	1	1	1	1	1	9	Good
49	Fjalstad (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
50	Fahmey (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
51	Muller-Pebody (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
52	Hartel (2012)	N/A	1	1	1	1	1	1	1	1	1	9	Good
53	Berardi (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
54	Biondi (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
55	Mischler (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
56	Agyeman (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
57	Ting (2015)	N/A	1	1	1	1	1	1	0	1	1	8	Good
58	Gkentzi (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
59	Schrag (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
60	El-Naggar (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
61	Shehab El-Din (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
62	Ramchandar (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good

Running Number	Author (Year)	(Cross)-reference	#1	#2	#3	#4	#5	#6	#7	#8	#9	Score	Rating
64	Xu (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
66	Lin (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
67	Blackburn (2012)	N/A	1	1	1	1	1	1	1	1	1	9	Good
68	Zhao (2018)	N/A	1	0	1	0	0	0	0	0	1	3	Poor
70	Mpinda-Joseph (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
71	Johnson (2020)	N/A	1	1	1	1	1	1	1	1	1	9	Good
72	Aletayeb (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
73	Kuhn (2010)	N/A	1	1	1	1	1	1	1	1	1	9	Good
74	Hammoud (2012)	N/A	1	1	1	1	1	1	0	1	1	8	Good
75	Hsu (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
76	Wu (2017)	N/A	1	1	1	1	1	0	1	1	1	8	Good
77	Okike (2014)	N/A	1	1	1	1	1	1	1	1	1	9	Good
78	Talbert (2010)	N/A	1	1	1	1	1	1	1	1	1	9	Good
79	Grisaru-Soen (2012)	N/A	1	1	1	1	1	1	1	1	1	9	Good
80	Wojkowska-Mach (2014)	N/A	1	1	1	1	1	1	1	1	1	9	Good
81	Gowda (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
82	Boghossian (2013)	N/A	1	1	1	1	1	1	0	1	1	8	Good
84	van den Hoogen (2010)	N/A	1	1	1	1	1	1	1	1	1	9	Good
85	Patel (2012)	N/A	1	0	1	0	0	0	0	1	0	3	Poor
86	Abhishek (2014)	N/A	1	1	1	0	0	1	1	1	1	7	Fair
87	Dumelow (2015)	N/A	1	0	1	0	0	0	0	1	0	3	Poor
88	Omoregie (2013)	N/A	1	1	1	1	0	1	1	1	1	8	Good
89	Awad (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
90	Huggard (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
91	Hafsa (2011)	N/A	1	1	1	1	0	1	1	1	1	8	Good
92	Gaschignard (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
93	Labi (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
94	Kruse (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
95	Al-Taïar (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
97	Dramowski (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
98	Boulos (2017)	N/A	1	1	1	0	1	0	1	1	1	7	Fair

Running Number	Author (Year)	(Cross)-reference	#1	#2	#3	#4	#5	#6	#7	#8	#9	Score	Rating
100	Giannoni (2018)	Agyeman P, Schlapbach LJ, Giannoni E, Stocker M, Posfay-Barbe KM, Heining U, et al. Epidemiology of blood culture-proven bacterial sepsis in children in Switzerland: a population-based cohort study. <i>Lancet Child Adolesc Health</i>	1	1	1	1	1	1	1	1	1	9	Good
101	Muhammad (2010)	N/A	1	1	1	1	1	0	1	1	1	8	Good
102	Shyamali (2017)	N/A	1	0	1	1	1	0	1	1	1	7	Fair
103	Mukherjee (2019)	N/A	1	1	1	1	1	1	1	1	1	9	Good
104	Al-Talib (2013)	N/A	1	0	1	1	1	1	1	1	1	8	Good
105	Ansari (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
106	Sharma (2015)	N/A	1	0	0	1	0	1	1	1	1	7	Fair
107	Rao (2012)	N/A	1	0	0	1	0	0	1	1	1	6	Fair
108	Ergaz (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
109	Bas (2010)	N/A	1	0	1	1	0	1	1	1	1	7	Fair
110	Lu (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
111	Cheng (2019)	N/A	1	1	1	1	1	0	0	0	1	6	Fair
112	Abbasi (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
113	Reichert (2016)	Schwab F, Zibell R, Piening B, Geffers C, Gastmeier P. Mortality due to bloodstream infections and necrotizing enterocolitis in very low birth weight infants. <i>Pediatr Infect Dis J.</i> 2015;34(3):235–240	1	1	1	1	1	1	1	1	1	9	Good
114	Piening (2017)	Geffers C, Baerwolff S, Schwab F, Gastmeier P. Incidence of healthcare-associated infections in highrisk neonates: results from the German surveillance system for very-low-birthweight infants. <i>J Hosp Infect.</i> 2008;Mar 4.	1	1	1	1	1	1	1	1	1	9	Good
115	Dhanawade (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
116	Al-Taiar (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
117	Sana (2019)	N/A	1	1	1	1	0	1	1	1	1	8	Good
120	Skogberg (2012)	N/A	1	1	1	1	1	1	1	0	1	8	Good
122	Kayange (2010)	N/A	1	1	1	1	1	1	1	1	1	9	Good
123	Lim (2012)	N/A	1	1	1	1	1	1	1	1	1	9	Good
124	Gangurde (2011)	N/A	1	0	1	1	0	1	0	1	1	6	Fair
125	Aamir (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
126	Annapurna (2018)	N/A	1	1	1	1	1	1	0	1	1	8	Good
128	Shah (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
129	Wu (2012)	N/A	1	0	1	1	0	0	0	1	1	6	Fair
130	Ertugrul (2016)	N/A	1	0	1	1	1	0	1	1	1	8	Fair
131	Kung (2013)	N/A	1	1	1	1	1	1	0	1	1	8	Good

Running Number	Author (Year)	(Cross)-reference	#1	#2	#3	#4	#5	#6	#7	#8	#9	Score	Rating
133	Zingg (2011)	N/A	1	1	1	1	1	0	1	1	1	8	Good
134	West (2012)	N/A	1	1	0	1	1	1	1	1	1	8	Good
135	Mushtaq (2013)	N/A	0	1	1	1	0	0	1	1	1	7	Fair
136	Ohlin (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
137	Gadallah (2014)	N/A	1	1	1	1	1	1	1	1	1	9	Good
138	Weston (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
139	Cho (2010)	N/A	1	1	1	1	1	1	1	1	1	9	Good
140	Greenhow (2014)	N/A	1	1	1	1	1	1	1	1	1	9	Good
141	Jiang (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
142	Sari (2017)	N/A	1	1	1	1	1	0	1	1	1	8	Good
144	Kuzniewicz (2020)	N/A	1	1	1	1	1	1	1	1	1	9	Good
145	Guerti (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
147	Shim (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
148	Pererz Lopez (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
149	Khan (2012)	N/A	1	0	1	1	1	0	1	1	1	8	Fair
150	Medugu (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
151	Spaulding (2018)	N/A	1	1	1	1	1	1	1	1	1	9	Good
152	Khan (2011)	N/A	1	1	1	1	1	1	1	1	1	9	Good
154	Tröger (2014)	N/A	1	1	1	1	1	1	1	1	1	9	Good
155	Boo (2016)	N/A	1	1	1	1	1	1	1	1	1	9	Good
156	Greenberg (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
157	Sigaúque (2018)	N/A	1	1	1	1	1	1	1	1	1	9	Good
158	Mengistu (2013)	N/A	1	1	1	1	1	1	1	1	1	9	Good
159	Ballot (2012)	N/A	1	1	1	1	1	1	1	1	1	9	Good
160	Lebea (2017)	N/A	1	1	1	1	1	1	1	1	1	9	Good
161	Iregbu (2013)	N/A	1	1	1	0	0	0	1	1	1	6	Fair
162	Nwankwo (2011)	N/A	1	1	1	1	0	1	1	1	1	8	Good
163	Ambade (2015)	N/A	1	1	1	1	1	1	1	1	1	9	Good
164	Bagla (2013)	N/A	1	0	1	1	1	1	0	1	1	7	Fair
165	Desai (2010)	N/A	1	1	1	0	0	0	1	1	1	6	Fair
166	Madavi (2015)	N/A	1	0	1	1	1	0	0	1	1	6	Fair
167	Mehta (2014)	N/A	1	1	1	1	0	0	1	1	1	7	Fair

Running Number	Author (Year)	(Cross)-reference	#1	#2	#3	#4	#5	#6	#7	#8	#9	Score	Rating
168	Ponugoti (2015)	N/A	1	1	0	1	0	0	1	1	1	6	Fair
169	Rao (2012)	N/A	1	1	0	0	0	1	1	1	1	6	Fair
170	Sharma (2013a)	N/A	1	1	1	1	0	0	1	1	1	7	Fair
171	Sharma (2013b)	N/A	1	1	1	1	1	1	1	1	1	9	Good
172	Vinod Kumar (2011)	N/A	1	1	0	1	0	1	1	1	1	7	Fair

Running Number	Author (Year)/Source	Age group	Age group classification (e.g. LOS/EOS)	Incidence reported (Y/N)	Study denominator	Reported incidence	Numerator	Denominator	Live births reported separately (Y/N)	Live births reported	Staphylococcus aureus	Cougliaite Negative Staphylococci (CONS)	Other Staphylococcus	Streptococcus pneumoniae	Group B Strept (GBS)	Other/unspecified Streptococcus species	Other/Unspecified Gram positive	All Gram positives	Klebsiella pneumoniae	Other/unspecified Klebsiella species	Escherichia coli	Pseudomonas aeruginosa	Other/unspecified Pseudomonas sp.	Enterobacter species	Serratia species	Pfisteria species	Shewanella species	Oribacter species	Haemophilus influenzae	Nisseria meningitidis	Acinetobacter species	Moraxella species	Other/unspecified Gram negatives	All Gram negatives	Non-state/Undetermined	Non bacterial (fungal)	Total		
1	Tran (2015)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	Y	approximately 15 000 live births	3	9	0	0	0	1	0	13	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	17		
1	Tran (2015)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	Y	approximately 15 000 live births	1	14	0	0	0	0	0	15	10	6	1	4	0	0	0	0	0	0	0	0	14	0	6	41	0	39	95		
2	Collaborative Study Group for Neonatal Bacterial (2018)	>7 days	LOS	N	N/A	N/A	N/A	N/A	N	N/A	6	21	0	0	56	2	18	103	10	0	49	1	0	6	3	0	0	0	0	2	0	12	83	0	0	186			
2	Collaborative Study Group for Neonatal Bacterial (2018)	0-7 days	EOS	N	N/A	N/A	N/A	N/A	N	N/A	1	11	0	0	32	1	4	49	3	0	6	1	0	2	0	0	0	0	0	0	0	3	15	0	0	64			
3	Kohli-Kochhar (2011)	>7 days	LOS	N	N/A	N/A	N/A	N/A	N	N/A	16	0	21	0	0	1	2	40	0	7	1	0	0	2	0	0	0	0	0	0	4	14	0	4	58				
3	Kohli-Kochhar (2011)	0-7 days	EOS	N	N/A	N/A	N/A	N/A	N	N/A	25	0	31	1	0	12	10	79	0	7	1	1	0	0	1	0	0	0	1	0	4	15	0	0	94				
13	Bhat (2011)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	21	0	0	0	0	5	26	0	72	10	76	0	5	0	0	0	7	0	0	33	0	0	203	0	0	239			
15	Palwinder (2017)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	66	7	0	0	0	0	0	73	77	0	37	0	28	8	0	0	0	0	0	14	0	0	164	0	0	237			
24	Patel (2014)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	2	18	0	0	0	0	5	25	88	0	14	8	0	11	0	0	0	0	0	5	0	0	126	5	25	181			
24	Patel (2014)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	1	13	0	0	0	0	0	14	29	0	11	7	0	15	0	0	0	0	0	8	0	0	70	9	2	95			
25	Lee (2015)	>7 days	LOS	Y	live births	194 per 1,000 live births	194	1000	N	N/A	72	242	81	0	5	16	39	455	0	24	14	0	6	24	9	0	0	0	0	11	0	13	101	0	76	632			
25	Lee (2015)	0-7 days	EOS	Y	live births	36 per 1,000 live births	36	1000	N	N/A	9	26	5	0	1	6	1	48	0	6	10	0	6	3	0	0	0	0	0	5	0	4	34	0	3	85			
28	Tsai (2015)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	113	376	0	0	26	0	30	545	0	133	74	16	0	43	9	0	0	3	0	2	40	0	7	307	38	52	942		
30	Yilmaz (2010)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	51	191	0	0	19	3	6	270	0	39	25	15	0	2	3	0	0	0	0	1	0	7	92	0	12	374			
31	Mintz (2020)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	12	526	0	0	4	3	40	585	108	0	44	0	16	49	19	3	0	7	0	0	12	0	13	271	0	14	870		
31	Mintz (2020)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	1	1	0	0	13	3	9	27	2	0	22	0	2	0	0	0	0	0	0	0	2	0	10	38	0	3	68		
32	Chen (2017)	>7 days	LOS	N	N/A	N/A	N/A	N/A	N	N/A	14	41	0	0	1	0	22	78	13	0	6	5	0	0	0	0	0	0	0	0	13	7	0	44	0	15	137		
32	Chen (2017)	0-7 days	EOS	N	N/A	N/A	N/A	N/A	N	N/A	0	3	0	0	9	0	8	20	0	0	9	0	0	0	0	0	0	0	0	1	0	2	12	0	0	32			
34	Ogunlesi (2011)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	14	10	0	0	0	0	2	26	0	6	9	4	0	0	5	0	0	0	0	0	0	5	29	0	0	55			
34	Ogunlesi (2011)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	40	12	0	0	0	0	2	54	0	34	10	3	0	0	6	0	0	0	0	0	0	0	12	65	0	0	119		
35	Chaurasia (2016)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	Y	88636	61	54	0	0	0	0	21	136	0	78	52	0	34	19	0	0	0	0	0	0	65	0	0	248	0	0	384		
35	Chaurasia (2016)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	Y	88636	61	96	0	0	0	0	35	192	0	91	81	0	34	25	0	0	0	0	0	0	157	0	0	388	0	0	580		
36	Abdulrahman (2019)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	0	0	100	0	4	0	0	104	0	38	20	21	0	18	0	0	0	0	0	0	0	0	0	97	11	0	212		
36	Abdulrahman (2019)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	0	0	3	0	11	4	0	18	0	3	9	1	0	0	0	0	0	0	0	0	0	0	0	13	2	0	33		
41	Li (2019)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	12	87	0	0	0	19	10	128	17	0	26	0	6	3	0	0	0	0	0	0	1	0	5	58	0	8	194		
41	Li (2019)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	4	63	0	0	10	10	10	87	14	0	7	0	12	2	2	0	0	0	0	0	0	0	0	29	66	0	27	180	
42	Bulkowstein (2016)	0-7 days	EOS	Y	live births	0.66 ± 0.16 per 1,000 live births	0.66	1000	Y	14,682 (2013) 16,963 (2017)	4	0	1	17	0	9	31	10	0	26	0	3	0	0	0	0	0	0	1	0	0	0	4	44	0	0	75		
43	Resch (2015)	0-72 hours	EOS	Y	live births	0.8 per 1,000 live births	0.8	1000	Y	approximately 153,000 births	0	3	0	0	100	0	8	111	0	0	11	0	0	0	1	0	1	1	0	0	0	0	14	0	0	125			
44	Hammoud (2017)	0-72 hours	EOS	Y	live births	1.51 per 1,000 live births	1.51	1000	Y	67 474 live births	2	6	0	0	61	3	6	78	0	4	13	0	0	1	0	0	0	0	0	0	0	0	3	21	0	2	101		
45	Stoll (2011)	0-72 hours	EOS	Y	live births	0.98 cases per 1000 LBs (range across centers: 0.33–2.44 cases per 1000 LBs)	0.98	1000	Y	396 586 infants born at NRN hospitals	10	3	0	0	162	31	33	239	0	0	114	0	0	0	0	0	0	0	0	0	0	0	31	145	0	2	386		
45	Stoll (2011)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	10	3	0	0	162	31	33	239	0	0	114	0	0	0	0	0	0	0	11	0	0	0	20	145	0	2	386		
46	Singh (2019)	0-48 hours	EOS	Y	live births	1.17 per 1000 live births	1.17	1000	Y	386 423 babies delivered in study hospitals	14	27	0	0	166	45	23	275	0	0	114	0	0	0	0	0	0	0	0	0	0	0	0	0	137	39	3	454	
47	Sro (2011)	0-72 hours	EOS	Y	admissions	6.5 per 1000 admissions	6.5	1000	N	N/A	10	128	0	10	80	43	0	271	0	3	100	1	0	0	0	0	0	0	0	0	0	0	0	121	7	6	405		
48	Jiang (2020)	0-72 hours	EOS	Y	live births	9.7 (95% CI: 8.4–11.1) cases per 1000 live births	9.7	1000	Y	In the 18 perinatal centers, a total of 19,084 inborn infants	4	53	0	0	8	0	52	117	26	0	65	15	0	10	5	0	0	0	0	0	0	0	4	0	73	198	0	6	321
49	Fjalstad (2016)	0-72 hours	EOS	Y	live births	0.54 per 1000 term LBs	0.54	1000	Y	168,877 LB	11	0	0	0	53	12	8	84	0	0	5	0	0	0	0	0	0	0	0	0	0	0	2	7	0	0	91		
50	Fahmy (2013)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	12	7	0	0	0	0	0	19	59	0	19	6	0	31	0	0	0	0	0	0	4	0	0	119	0	0	138		
51	Muller-Pebody (2011)	0-48 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	75	326	0	32	477	147	189	1246	0	0	137	0	18	0	0	0	0	0	0	0	0	34	0	12	0	69	270	0	1516
52	Hartel (2012)	>72 hours	LOS	Y	patient days	1.7/1000 patient days	1.7	1000	Y	2110 VLBW infant born	47	114	0	0	5	1	16	183	0	22	9	0	1	10	1	0	0	0	0	0	0	0	0	43	0	10	236		
53	Berardi (2019)	>72 hours	LOS	Y	live births	2.0/1000 LB (more detailed breakdown provided)	2	1000	Y	146682 (further info on LB term, gestational age, etc.)	41	71	0	2	39	21	37	77	0	0	50	0	9	0	0	0	0	0	0	1	0	0	0	41	122	5	14	218	
58	Gkenti (20																																						

Running Number	Author (Year)/Source	Age group	Age group classification (e.g. LOS/EOS)	Incidence reported (Y/N)	Study denominator	Reported incidence	Numerator	Denominator	Live births reported separately (Y/N)	Live births reported	Staphylococcus aureus	Cougliaea Negative Staphylococci (CONS)	Other Staphylococcus	Streptococcus pneumoniae	Group B Strept (GBS)	Other/Unspecified Streptococcus species	Other/Unspecified Gram positive	All Gram positives	Klebsiella pneumoniae	Other/Unspecified/Klebsiella species	Escherichia coli	Pseudomonas aeruginosa	Other/Unspecified Pseudomonas sp.	Enterobacter species	Serratia species	Proteus species	Shewanella species	Other/Unspecified Gram negative	All Gram negatives	Non-state/Undetermined	Non bacterial (fungal)	Total					
115	Dhanawade (2015)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	16	5	0	0	0	7	28	17	0	7	0	0	0	0	0	0	0	0	0	34	3	0	65				
115	Dhanawade (2015)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	9	6	0	0	0	5	20	20	0	11	0	0	0	0	0	0	0	0	8	0	39	3	0	62			
116	Al-Talar (2011)	0-7 days	EOS	Y	live births	2.7 (95% CI 2.3–3.2) infections per 1000 live-births	2.7	1000	Y	56 134 LB	4	35	0	0	27	0	20	86	0	23	15	0	5	4	0	0	0	0	8	0	5	60	0	7	153		
117	Sana (2019)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	10	13	0	0	0	8	31	27	0	0	0	0	0	0	10	0	0	1	0	0	10	0	8	56	0	12	99
117	Sana (2019)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	2	7	0	0	0	2	8	19	12	0	4	0	2	8	0	0	1	0	0	12	0	3	42	0	12	73	
123	Lim (2012)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	6	81	0	0	0	6	93	19	4	13	0	1	6	1	0	0	0	0	0	7	0	51	0	5	149		
123	Lim (2012)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	0	2	0	0	0	1	3	2	0	4	0	0	0	0	0	0	0	0	0	0	6	0	1	10			
125	Aamir (2015)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	0	43	10	0	0	17	70	0	4	5	0	11	0	0	0	0	4	0	0	7	31	0	5	106			
128	Shah (2015)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	89	742	0	0	31	8	40	910	0	33	88	0	14	0	18	2	0	5	0	2	0	33	195	0	1105		
134	West (2012)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	15	3	0	0	0	1	0	19	0	21	4	4	0	0	0	1	0	0	0	0	0	30	0	0	49		
134	West (2012)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	18	0	0	0	0	3	21	0	78	9	4	0	0	0	0	8	0	0	0	0	0	99	0	0	120		
136	Ohlin (2015)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	Y	305 318 infants born in Sweden	18	206	0	0	6	0	11	241	0	11	4	1	0	0	11	0	0	0	0	0	12	39	3	21	304		
136	Ohlin (2015)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	Y	305 318 infants born in Sweden	0	6	0	0	4	0	1	11	0	1	5	0	0	0	1	0	0	0	0	0	1	8	0	1	20		
138	Weston (2011)	0-72 hours	EOS	Y	live births	0.77 cases per 1,000 live births	0.77	1000	Y	93,000 live births in 2006, and approximately 103,000 live births annually from 2007–2008	26	0	0	8	249	135	23	441	6	0	159	0	0	0	0	0	0	0	7	26	0	0	2	200	17	0	658
140	Greenhow (2014)	>7 days	LOS	Y	live births	The incidence rate of bacteraemia, UTI and meningitis was 0.57 (95% CI: 0.55–0.59), 3.46 (95% CI: 3.34–3.60)	0.57	1000	Y	Using this 7-year study, 224,553 full-term infants were born	8	0	0	5	29	0	3	45	0	4	85	0	0	0	0	0	0	0	0	0	3	0	0	92	8	0	145
144	Kuzniwicz (2020)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	22	2	0	9	239	42	34	348	6	2	199	1	0	3	0	1	0	10	13	0	0	0	11	246	0	0	594
145	Guerti (2011)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	27	0	234	0	0	8	20	289	0	7	16	6	2	2	5	5	0	0	0	2	0	2	22	21	379		
145	Guerti (2011)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	2	0	21	2	0	13	7	45	0	3	3	0	1	1	0	0	1	0	0	0	0	10	3	0	58		
154	Tröger (2014)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	121	515	0	1	32	10	71	750	0	68	77	13	0	55	7	3	0	0	0	0	0	0	233	112	41	1126	
155	Boo (2016)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	85	147	0	0	11	21	264	0	83	8	49	0	9	16	0	0	2	0	0	0	70	0	32	269	0	29	562
155	Boo (2016)	0-72 hours	EOS	N	N/A	N/A	N/A	N/A	N	N/A	7	5	0	0	16	0	3	31	0	2	5	0	4	2	0	0	0	0	0	0	10	0	7	30	0	61	
156	Greenberg (2017)	>72 hours	LOS	N	N/A	N/A	N/A	N/A	N	N/A	429	1980	136	2	75	58	154	2834	0	182	220	0	88	119	54	10	0	17	0	0	8	0	1	699	57	299	3889
157	Sigaouque (2018)	>6 days	LOS	N	N/A	N/A	N/A	N/A	Y	47,651 live births	109	0	0	50	38	37	9	243	0	7	20	0	8	1	0	20	0	0	14	6	0	0	21	97	0	0	340
157	Sigaouque (2018)	0-6 days	EOS	N	N/A	N/A	N/A	N/A	Y	47,651 live births	25	0	0	4	19	16	1	65	0	5	12	0	1	4	0	0	3	0	0	0	0	0	15	40	0	0	105
159	Ballot (2012)	0-72 hours	EOS	Y	live births	14.4 episodes of BSI in 10.5 babies (0.93 episodes of EOS and 13.5 episodes of LOS) per 1000 live births	0.93	1000	N	N/A	0	4	0	0	0	10	1	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	16	
159	Ballot (2012)	>72 hours	LOS	Y	live births	(0.93 episodes of EOS and 13.5 episodes of LOS) per 1000 live births	13.5	1000	N	N/A	23	58	0	0	0	15	23	119	45	1	23	4	0	5	0	1	0	1	0	0	29	0	1	110	0	1	230
160	Lebea (2017)	0-72 hours	EOS	Y	admissions	the incidence of EOS was 1.7 per 100 admissions	1.7	100	N	N/A	3	12	0	0	2	0	2	19	9	2	2	0	0	0	0	0	0	0	0	0	7	0	0	20	0	0	39
160	Lebea (2017)	>72 hours	LOS	Y	admissions	the incidence of LOS was 8.6 per 100 admissions	8.6	100	N	N/A	28	44	0	0	1	0	8	81	69	0	12	1	0	1	0	0	0	0	0	0	13	0	0	96	0	20	197
162	Nwankwo (2011)	0-7 days	EOS	N	N/A	N/A	N/A	N/A	N	N/A	9	0	0	0	3	1	13	12	0	6	2	0	0	0	2	5	0	0	0	0	0	0	27	0	0	40	
162	Nwankwo (2011)	>7 days	LOS	N	N/A	N/A	N/A	N/A	N	N/A	29	4	0	0	15	6	54	20	0	18	5	0	0	0	4	10	1	0	0	0	0	0	58	0	0	112	
171	Sharma (2013b)	0-7 days	EOS	N	N/A	N/A	N/A	N/A	N	N/A	31	20	0	0	0	0	51	10	0	5	2	0	4	0	0	2	0	0	9	0	0	32	0	0	83		
171	Sharma (2013b)	>7 days	LOS	N	N/A	N/A	N/A	N/A	N	N/A	37	10	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	48		

Running Number	Author (Year)/Source	Birth weight	Birth weight classification (eg. VLBW)	Incidence reported	Study denominator	Reported incidence	Numerator	Denominator	Live births reported separately (Y/N)	Live births reported	Staphylococcus aureus	Clostridium Negative Staphylococci (CONS)	Other Staphylococcus	Streptococcus pneumoniae	Group B Streptococcus	Other/Unspecified Streptococcus species	Other/Unspecified Gram positive	All Gram positive	Klebsiella pneumoniae	Other/Unspecified Klebsiella	Enterococcus	Pseudomonas aeruginosa	Other/Unspecified Pseudomonas sp.	Enterobacter species	Serratia species	Proteus species	Salmonella species	Other/Unspecified Enterobacter species	Haemophilus influenzae	Neisseria meningitidis	Acinetobacter species	Moraxella species	Other/Unspecified Gram negative	All Gram negative	Non-stated/Undetermined	Non bacterial (fungi)	Total		
25	Lee (2015)	<1,500 g	VLBW	Y	live births	EOS was 36 per 1,000 live births and LOS was 194 per 1,000 live births	36 and 194	1000	N	N/A	81	268	86	0	6	22	40	503	0	30	24	0	12	27	9	0	0	0	0	0	16	0	17	135	0	79	717		
52	Hartel (2012)	<1,500 g	VLBW	Y	patient days	1.7/1000 patient days	1.7	1000	Y	2110 VLBW infant born	47	114	0	0	7	2	17	187	0	22	14	0	2	10	1	0	0	0	0	0	0	0	0	0	49	0	11	247	
53	Berardi (2015)	<1,500 g	VLBW	Y	live births	70.1 episodes/1000 LB	70.1	1000	Y	1840 LB	16	53	0	0	5	4	10	88	0	0	12	0	2	0	0	0	0	0	0	0	0	0	0	0	17	31	3	7	129
53	Berardi (2015)	<1,000 g	ELBW	Y	live births	138.8 episodes/1000 LB	138.8	1000	Y	635 LB	10	46	0	0	3	2	8	69	0	0	8	0	2	0	0	0	0	0	0	0	0	0	0	0	14	24	3	6	102
82	Boghossian (2013)	<1,500 g	VLBW	N	N/A	N/A	N/A	N/A	N	N/A	543	2608	0	0	94	206	368	3821	0	214	232	0	112	144	57	0	0	0	0	0	0	0	0	60	815	0	353	4992	
91	Hafsa (2011)	<1,500 g	VLBW	N	N/A	N/A	N/A	N/A	N	N/A	0	0	0	0	0	0	0	0	25	0	1	0	0	6	0	0	0	0	0	0	0	0	0	0	32	0	0	32	
91	Hafsa (2011)	>1,500g	N/A	N	N/A	N/A	N/A	N/A	N	N/A	2	0	0	0	0	0	0	2	54	0	3	0	0	13	0	0	0	0	0	0	0	0	0	0	70	0	0	72	
104	Al-Talib (2013)	< 1,500g	VLBW	N	N/A	N/A	N/A	N/A	Y	69824	12	24	0	0	0	0	0	36	16	0	8	0	0	8	4	0	0	0	0	0	0	2	0	3	41	0	2	79	
104	Al-Talib (2013)	1,500-1,900g	N/A	N	N/A	N/A	N/A	N/A	Y	69824	24	64	0	0	0	0	0	88	10	0	16	16	0	12	0	0	0	0	0	0	0	3	0	2	58	0	3	148	
104	Al-Talib (2013)	>2,500g	N/A	N	N/A	N/A	N/A	N/A	Y	69824	43	111	0	0	0	0	0	154	4	0	1	6	0	14	0	0	0	0	0	0	0	0	3	0	0	28	0	1	183
113	Reichert (2016)	<1,500 g	VLBW	N	N/A	N/A	N/A	N/A	N	N/A	407	0	0	0	30	0	243	680	0	190	210	38	0	246	58	0	0	17	0	0	28	0	0	787	399	138	2004		
114	Piening (2017)	<1,500 g	VLBW	N	N/A	N/A	N/A	N/A	N	N/A	392	2301	0	0	0	0	0	191	2884	0	170	226	0	0	207	50	0	0	0	0	0	0	0	0	653	466	91	4094	
123	Lim (2012)	<1,500 g	VLBW	Y	live births	152 per 1000 live births (VLBW)	152	1000	N	N/A	6	83	0	0	0	1	6	96	21	4	17	0	1	6	1	0	0	0	0	0	0	0	7	0	0	57	0	6	159
155	Boo (2016)	<1,500 g	VLBW	N	N/A	N/A	N/A	N/A	N	N/A	92	152	0	0	16	11	24	295	0	85	33	49	4	11	16	0	0	2	0	0	80	0	29	299	0	29	623		
154	Troger (2014)	<1,500 g	VLBW	N	N/A	N/A	N/A	N/A	N	N/A	121	515	0	1	32	10	71	750	0	68	77	13	0	55	7	3	0	0	0	0	0	0	0	0	223	112	41	1126	

Running Number	Author (Year)/Source	Gestational age	Gestational age classification (e.g. prematurity)	Incidence reported (Y/N)	Study denominator	Reported Incidence	Numerator	Denominator	Live births reported separately (Y/N)	Live births reported	Staphylococcus aureus	Conglutinate Negative Staphylococci (CONS)	Other Staphylococcus	Streptococcus pneumoniae	Group B Strep (GBS)	Other/Unspecified Streptococcus species	Other/Unspecified Gram positives	All Gram positives	Klebsiella pneumoniae	Other/Unspecified Klebsiella species	Escherichia coli	Pseudomonas aeruginosa	Other/Unspecified Pseudomonas sp.	Enterobacter species	Serratia species	Proteus species	Salmonella species	Citrobacter species	Haemophilus influenzae	Neisseria meningitidis	Acinetobacter species	Moraxella species	Other/Unspecified Gram negatives	All Gram negatives	Other	Non bacterial (Fungal)	Total		
2	Collaborative Study Group for Neonatal Bacterial (2018)	not specified	Preterm	N	N/A	N/A	N/A	N/A	N	N/A	1	2	0	0	0	8	7	18	9	0	18	0	0	4	3	0	0	0	0	0	0	1	5	40	0	0	58		
2	Collaborative Study Group for Neonatal Bacterial (2018)	not specified	Term	N	N/A	N/A	N/A	N/A	N	N/A	6	30	0	0	0	83	15	134	4	0	37	2	0	4	0	0	0	0	0	0	0	1	10	58	0	0	192		
47	Sgro (2011)	<32 weeks	N/A	N	N/A	N/A	N/A	N/A	N	N/A	4	45	0	4	20	12	0	85	0	3	69	1	0	0	0	0	0	0	0	8	0	0	0	0	81	1	3	170	
47	Sgro (2011)	32-37 weeks	N/A	N	N/A	N/A	N/A	N/A	N	N/A	2	38	0	1	21	13	0	75	0	0	21	0	0	0	0	0	0	0	6	0	0	0	0	0	27	3	3	108	
47	Sgro (2011)	>37 weeks	N/A	N	N/A	N/A	N/A	N/A	N	N/A	3	52	0	5	27	20	0	107	0	0	13	0	0	0	0	0	0	0	4	0	0	0	0	0	17	3	0	127	
50	Fahmey (2013)	N/A	Preterm	N	N/A	N/A	N/A	N/A	N	N/A	3	3	0	0	0	0	0	6	20	0	7	2	0	11	0	0	0	0	0	0	0	2	0	0	42	0	0	48	
50	Fahmey (2013)	N/A	Term	N	N/A	N/A	N/A	N/A	N	N/A	9	4	0	0	0	0	0	13	39	0	12	4	0	20	0	0	0	0	0	0	0	2	0	0	77	0	0	90	
53	Berardi (2019)	>=37 weeks	Term	Y	live births	1.2 episodes/1,000 LB	1.2	1000	Y	135,592	20	10	0	2	28	14	21	95	0	0	35	0	6	0	0	0	0	0	1	0	0	0	16	58	2	5	160		
53	Berardi (2019)	<37 weeks	Preterm	Y	live births	15.2 episodes/1,000 LB	15.2	1000	Y	11090	21	61	0	0	11	7	16	116	0	0	15	0	3	0	0	0	0	0	0	0	0	0	25	43	3	9	171		
53	Berardi (2019)	<28 weeks	Extremely Preterm	Y	live births	174.0 episodes/1,000 LB	174	1000	Y	569	12	43	0	0	3	4	8	70	0	0	7	0	2	0	0	0	0	0	0	0	0	0	12	21	3	5	99		
91	Hafsa (2011)	<37 weeks	Preterm	N	N/A	N/A	N/A	N/A	N	N/A	1	0	0	0	0	0	0	1	49	0	0	2	0	0	10	0	0	0	0	0	0	0	0	0	0	61	0	0	62
91	Hafsa (2011)	>37 weeks	Term	N	N/A	N/A	N/A	N/A	N	N/A	1	0	0	0	0	0	0	1	30	0	0	2	0	0	9	0	0	0	0	0	0	0	0	0	41	0	0	42	
109	Bas (2010)	<30 weeks	N/A	N	N/A	N/A	N/A	N/A	N	N/A	1	3	0	0	0	1	2	7	0	12	1	2	0	1	2	0	0	0	0	0	0	1	0	0	19	0	3	29	
109	Bas (2010)	31-34 weeks	N/A	N	N/A	N/A	N/A	N/A	N	N/A	0	1	0	0	0	1	2	4	0	18	3	6	0	2	0	0	0	0	0	0	0	2	0	1	32	0	2	38	
109	Bas (2010)	35-37 weeks	N/A	N	N/A	N/A	N/A	N/A	N	N/A	0	0	0	0	0	0	0	0	6	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	9	0	0	9	
109	Bas (2010)	>37 weeks	N/A	N	N/A	N/A	N/A	N/A	N	N/A	2	6	0	0	0	4	1	13	0	6	3	3	0	0	1	0	0	0	0	0	1	0	1	15	0	2	30		
129	Wu (2012)	not specified	Preterm	Y	Preterm infants	3.10%	106	3418	N	N/A	6	11	17	0	0	0	18	52	29	0	7	2	0	2	0	0	0	0	0	0	0	4	4	48	0	15	115		
136	Ohlin (2015)	22-26 weeks	Very Preterm	N	N/A	N/A	N/A	N/A	Y	305 318 LB in Sweden	18	212	0	0	10	0	12	252	0	12	9	1	0	0	12	0	0	0	0	0	0	0	0	13	47	3	22	324	
156	Greenberg (2017)	22-28.6/7 week	Extremely Preterm	N	N/A	N/A	N/A	N/A	N	N/A	429	1980	136	2	75	58	154	2834	0	182	220	0	88	119	54	10	0	17	0	0	8	0	1	699	57	299	3889		
172	Vinod Kumar (2011)	not specified	Preterm	N	N/A	N/A	N/A	N/A	N	N/A	89	73	0	0	0	1	7	170	0	192	33	42	0	30	0	0	0	21	0	0	50	0	3	371	0	68	609		
172	Vinod Kumar (2011)	not specified	Full-term	N	N/A	N/A	N/A	N/A	N	N/A	87	45	0	0	0	5	0	137	0	40	59	0	0	0	0	0	0	2	0	0	4	0	0	105	0	28	270		

