**Supplemental Appendix 1.** Search Terms.

Search terms used for four databases to identify articles on *Elizabehtkingia spp.* infection in pediatric patients. Search terms and search strategies were adjusted to each database, based on controlled and uncontrolled vocabularies and search software.

|  |  |
| --- | --- |
| **Database** | **Search strategy** |
| PubMed | (((((elizabethkingia OR chryseobacteri\* OR flavobacteri\*))) AND ((("infant" or "infants" or "baby" or "babies" or "newborn" or "newborns" or "neonate" or "neonates" or "neonatal" or "perinatal" or "peri-natal" or "child" or "children" or "adolescent" or "adolescents" or "adolescence" or "kindergarten" or "kindergarteners" or "day care" or "daycare" or "day cares" or "day cares" or "creche" or "pediatric" or "pediatrics" or "paediatric" or "paediatrics")))) OR (((((elizabethkingia OR chryseobacteri\* OR flavobacteri\*)))) AND ((infant[MeSH] OR child[MeSH] OR adolescent[MeSH]))) |
| Scopus | ( TITLE-ABS-KEY ( elizabethkingia OR chryseobacteri\* OR flavobacteri\* ) ) AND ( ( TITLE-ABS-KEY ( "elementary school" OR "elementary schools" OR schoolchild\* ) OR TITLE-ABS-KEY ( ( child\* OR infant\* OR neonat\* OR newborn\* OR pediatric\* OR adolescen\* OR teen\* OR preteen\* OR pre-teen\* OR kindergarten\* OR nursery OR nurseries OR creche OR creches OR "day care" OR "day cares" OR daycare\* OR "high school" OR "high schools" ) ) ) ) |
| Embase | 1: (elizabethkingia or chryseobacteri\* or flavobacteri\*).mp.  2: (child\* or infant\* or neonat\* or newborn\* or pediatric\* or adolescen\* or teen\* or kindergarten\* or creche or nursery or schoolchild\* or elementary school\* or high school\* or daycare\* or day care\* or preteen\* or pre-teen\*).mp  3: 1 and 2  4: limit 1 to (embryo <first trimester> or infant <to one year> or child <unspecified age> or preschool child <1 to 6 years> or school child <7 to 12 years> or adolescent <13 to 17 years>)  5: 3 OR 4 |
| Global Health | 1: (elizabethkingia or chryseobacteri\* or flavobacteri\*).mp.  2: (child\* or infant\* or neonat\* or newborn\* or pediatric\* or adolescen\* or teen\* or kindergarten\* or creche or nursery or schoolchild\* or elementary school\* or high school\* or daycare\* or day care\* or preteen\* or pre-teen\*).mp  3: 1 and 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Appendix 2.** Characteristics of studies included in systematic review of pediatric *Elizabethkingia* cases. | | | | | | | | | | | | | | | |
| Author & Year | Country | Species | Epidem-iology | Neonatal Cases (<1 month) | | | Other Pediatric Cases (1 month-18 years) | | | Total # undeter-minable age child cases | **Total Cases** | # presenting with meningitis | # presenting with sepsis | Survivors | |
| Recovered | Died | Unknown | Recovered | Died | Unknown | # documented with full recovery | # documented with hydrocephalus as sequela |
| Shulman et al., 1944 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 1 | 0 |
| Brody et al., 1958 | US | *E. meningoseptica* | 3 clusters | 4 | 15 | 0 | 0 | 0 | 0 | 0 | **19** | 19 | 0 | 1 | 3 |
| King et al., 1959 | US | *E. meningoseptica* | sporadic | 0 | 4 | 0 | 2 | 0 | 0 | 6 | **12** | 12 | 0 | 2 | 2 |
| Cabrera et al., 1961 | US | *E. meningoseptica* | cluster | 4 | 10 | 0 | 0 | 0 | 0 | 0 | **14** | 14 | 12 | 1 | 3 |
| Seligmann et al., 1963 | Israel | *E. meningoseptica* | cluster | 0 | 0 | 7 | 0 | 0 | 0 | 0 | **7** | 7 | 0 | 0 | 0 |
| Sugathadasa et al., 1963 | Sri Lanka | *E. meningoseptica* | sporadic | 0 | 0 | 1 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Eeckels et al., 1965 | DRC | *E. meningoseptica* | sporadic | 0 | 2 | 0 | 0 | 0 | 0 | 0 | **2** | 2 | 0 | 0 | 0 |
| Plotkin et al., 1966 | US | *E. meningoseptica* | cluster | 1 | 1 | 0 | 0 | 0 | 0 | 0 | **2** | 2 | 0 | 0 | 1 |
| Watson et al., 1966 | South Africa | *E. meningoseptica* | sporadic | 0 | 2 | 0 | 0 | 0 | 0 | 0 | **2** | 2 | 0 | 0 | 0 |
| Gonzaga et al., 1967 | Philippines | *E. meningoseptica* | sporadic | 0 | 0 | 1 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Madruga et al., 1970 | Brazil | *E. meningoseptica* | cluster (plus 1 sporadic case) | 0 | 6 | 0 | 0 | 0 | 0 | 0 | **6** | 6 | 0 | 0 | 0 |
| Yabuuchi et al., 1970 | Japan | *E. meningoseptica* | sporadic | 0 | 0 | 1 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Agarwal et al., 1971 | India | *E. meningoseptica* | sporadic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| McCracken et al., 1972 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Eykens et al., 1973 | Belgium | *E. meningoseptica* | sporadic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Hawley et al., 1973 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Lapage et al., 1973 | Botswana | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Maderazo et al., 1974 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Teres, 1974 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 1 | 0 |
| Lee et al., 1976 | Malaysia | *E. meningoseptica* | sporadic | 3 | 0 | 0 | 0 | 0 | 0 | 0 | **3** | 3 | 0 | 0 | 3 |
| Hazuka et al., 1977 | US | *E. meningoseptica* | cluster | 2 | 1 | 0 | 0 | 0 | 0 | 0 | **3** | 2 | 0 | 1 | 1 |
| Lee et al., 1977 | Malaysia | *E. meningoseptica* | sporadic | 4 | 0 | 0 | 0 | 0 | 0 | 0 | **4** | 4 | 0 | 0 | 0 |
| Lewis et al., 1977 | Australia | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Rios et al., 1978 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Nadarajah et al., 1979 | Singapore | *E. meningoseptica* | sporadic | 1 | 5 | 0 | 0 | 0 | 0 | 0 | **6** | 6 | 0 | 0 | 1 |
| Dooley et al., 1980 | Brazil | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Dickinson et al., 1981 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Ferlauto et al., 1981 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Thong et al., 1981 | Malaysia | *E. meningoseptica* | sporadic | 5 | 2 | 0 | 0 | 0 | 0 | 0 | **7** | 7 | 1 | 3 | 2 |
| Chandrika et al., 1982 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Kelsey et al., 1982 | Pakistan | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Winslow et al., 1982 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Yamauchi et al., 1982 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 0 | 0 | 1 | **1** | 0 | 0 | 0 | 0 |
| Johny et al., 1983 | Kuwait | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 1 | 1 | 0 |
| Kaplan et al., 1983 | Israel | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 1 | 0 |
| Sarvamangala et al., 1983 | India | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Babiker et al., 1984 | Saudi Arabia | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 1 |
| Linder et al., 1984 | Israel | *E. meningoseptica* | cluster | 6 | 3 | 0 | 0 | 0 | 0 | 0 | **9** | 0 | 9 | 3 | 0 |
| Sharma et al., 1984 | India | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Senquiz, 1987 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 0 | 1 |
| Ayyagari et al., 1988 | India | *E. meningoseptica* | sporadic | 0 | 0 | 10 | 0 | 0 | 0 | 3 | **13** | 13 | 2 | 0 | 0 |
| Abrahamsen et al., 1989 | Norway | *E. meningoseptica* | cluster | 4 | 0 | 0 | 1 | 0 | 0 | 0 | **5** | 2 | 5 | 3 | 2 |
| Boo et al., 1989 | Malaysia | *E. meningoseptica* | sporadic | 12 | 6 | 0 | 0 | 0 | 0 | 0 | **18** | 18 | 1 | 4 | 6 |
| Bruun et al., 1989 | Denmark | *E. meningoseptica* | cluster | 2 | 1 | 0 | 0 | 0 | 0 | 0 | **3** | 2 | 0 | 2 | 0 |
| Gokul et al., 1989 | India | *E. meningoseptica* | sporadic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Humphreys et al., 1989 | UK | *E. meningoseptica* | sporadic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **1** | 0 | 0 | 0 | 0 |
| Tam et al., 1989 | China | *E. meningoseptica* | sporadic | 0 | 1 | 0 | 0 | 1 | 0 | 0 | **2** | 0 | 0 | 0 | 0 |
| Amit et al., 1991 | Israel | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 0 | 1 | 1 | 0 |
| Bhutta et al., 1991 | Pakistan | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 0 | 1 |
| Skapek et al., 1992 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 1 | 0 |
| Green et al., 1993 | DRC | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Sheridan et al., 1993 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 1 | 1 | 0 |
| Sader et al., 1995 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 1 | 0 |
| Tizer et al., 1995 | US | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Ramachandran et al., 1996 | India | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Di Pentima et al., 1998 | US | *E. meningoseptica* | sporadic | 2 | 1 | 0 | 1 | 0 | 0 | 0 | **4** | 3 | 0 | 1 | 0 |
| Sztajnbok et al., 1998 | Brazil | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 1 | 0 | 0 | **1** | 0 | 1 | 0 | 0 |
| Springer et al., 1999 | US | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 1 | 0 |
| Chang et al., 2000 | Taiwan | *E. meningoseptica* | sporadic | 3 | 0 | 2 | 0 | 0 | 0 | 0 | **5** | 5 | 0 | 0 | 3 |
| Chiu et al., 2000 | Taiwan | *E. meningoseptica* | sporadic | 2 | 0 | 0 | 0 | 0 | 1 | 0 | **3** | 2 | 3 | 0 | 0 |
| Hoque et al., 2001 | UK | *E. meningoseptica* | cluster | 2 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | 1 | 1 | 0 | 0 |
| El-Said et al., 2002 | Qatar | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 0 | 0 | 0 | 0 |
| Gunnarsson et al., 2002 | Iceland | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 1 | 0 |
| Tekerekoglu et al., 2003 | Turkey | *E. meningoseptica* | cluster | 3 | 1 | 0 | 0 | 0 | 0 | 0 | **4** | 0 | 4 | 2 | 1 |
| Lin et al., 2004 | Taiwan | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 2 | 0 | 0 | 0 | **2** | 0 | 0 | 2 | 0 |
| Ozkalay et al., 2006 | Turkey | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 1 | 1 | 1 | 0 |
| Ceyhan et al., 2008 | Turkey | *E. meningoseptica* | 3 clusters | 4 | 4 | 0 | 5 | 0 | 0 | 0 | **13** | 3 | 6 | 8 | 1 |
| Hung et al., 2008 | Taiwan | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 1 | 0 | 0 | 0 | **2** | 1 | 0 | 0 | 0 |
| Sakuma et al., 2008 | Japan | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Gupta et al., 2010 | India | *E. meningoseptica* | sporadic | 0 | 0 | 1 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 0 | 0 |
| Lee et al., 2010 | Singapore | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 1 | 1 | 0 |
| Amer et al., 2011 | Saudi Arabia | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 1 | 0 |
| Hsu et al., 2011 | Taiwan | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 0 | 6 | 0 | **6** | 0 | 0 | 0 | 0 |
| Issack et al., 2011 | Mauritius | *E. meningoseptica* | cluster | 6 | 2 | 0 | 0 | 0 | 0 | 0 | **8** | 8 | 0 | 4 | 1 |
| Dias et al., 2012 | India | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 0 | 0 |
| Gokce et al., 2012 | Turkey | *E. meningoseptica* | sporadic | 1 | 0 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 0 | 1 |
| Ballal et al., 2013 | India | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 1 | 1 | 0 |
| Da Silva et al., 2013 | Brazil | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 1 | 0 | 0 | **1** | 0 | 0 | 0 | 0 |
| Frank et al., 2013 | CAR | *E. anopheles* | sporadic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Ghafur et al., 2013 | India | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 1 | 0 | 0 | **2** | 0 | 0 | 0 | 0 |
| Lin et al., 2013 | Taiwan | *E. meningoseptica* | sporadic | 0 | 0 | 10 | 0 | 0 | 2 | 0 | **12** | 12 | 0 | 0 | 0 |
| Pereira et al., 2013 | Brazil | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 2 | 2 | 0 | 0 | **4** | 0 | 0 | 2 | 0 |
| Rai et al., 2013 | India | *E. meningoseptica* | sporadic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 0 | 0 | 0 |
| Ratnamani et al., 2013 | India | *E. meningoseptica* | cluster | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 0 | 0 |
| Ray et al., 2013 | Singapore | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 1 | 0 |
| Chang et al., 2014 | Taiwan | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 0 | 1 | 0 | **1** | 0 | 0 | 0 | 0 |
| Eroğlu-Ertuğrul et al., 2014 | Turkey | *E. meningoseptica* | sporadic | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **1** | 1 | 1 | 0 | 0 |
| Shailaja et al., 2014 | India | *E. meningoseptica* | sporadic | 2 | 6 | 1 | 0 | 0 | 0 | 0 | **9** | 9 | 3 | 2 | 0 |
| Tsai et al., 2014 | Taiwan | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 0 | 0 | 1 | **1** | 0 | 1 | 0 | 0 |
| Costa et al., 2015 | Brazil | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 0 | 0 | 4 | **4** | 0 | 0 | 0 | 0 |
| Khan et al., 2015 | India | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 1 | 0 | 0 | 0 | **1** | 0 | 0 | 1 | 0 |
| Lau et al., 2015 | China | *E. anopheles* | sporadic | 2 | 0 | 0 | 0 | 0 | 0 | 0 | **2** | 2 | 0 | 1 | 0 |
| Sun et al., 2015 | China | *E. meningoseptica* | sporadic | 0 | 0 | 0 | 0 | 0 | 1 | 0 | **1** | 0 | 0 | 0 | 0 |
| Colapietro et al., 2016 | Switzerland | *E. mirocola* | sporadic | 0 | 0 | 0 | 0 | 0 | 1 | 0 | **1** | 0 | 0 | 0 | 0 |
| Lau et al., 2016 | China | *E. anopheles* | sporadic | 1 | 1 | 0 | 0 | 0 | 0 | 0 | **2** | 1 | 1 | 1 | 0 |
| Tai et al., 2016 | Taiwan | *E. meningoseptica* | cluster | 3 | 0 | 0 | 0 | 0 | 0 | 0 | **3** | 3 | 3 | 0 | 1 |
| ***Note.*** CAR: Central African Republic; DRC: Democratic Republic of Congo; US: United States | | | | | | | | | | | | | | | |

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