

CASE DEFINITION FOR PROBIOTIC SEPSIS IN INFANTS UNDER 2 YEARS OF AGE

Report any patient under 2 years of age (up to their 2nd birthday) meeting **ALL** four of the following criteria of probiotic sepsis:

- 1) Receiving a probiotic
- 2) Presents with systemic signs or symptoms of infection (e.g., temperature instability, apnea/bradycardia, hypotension, lethargy, or feeding intolerance)
- 3) Blood culture confirms the presence of one or more micro-organisms representing a probiotic strain*
- 4) Requires clinical intervention (e.g., initiation or escalation of antimicrobial therapy).

Exclusion criteria

- Blood culture confirming the presence of a strain of *Streptococcus* (but report ***salivarius* or *thermophilus***)
- Positive culture of a probiotic strain from non-sterile fluid, such as endotracheal aspirate
- Positive culture of a probiotic strain from cerebrospinal fluid, peritoneal fluid, or urine
- Probiotic bacteremia without clinical or laboratory signs of sepsis

* Examples of possible probiotic strains that could cause probiotic sepsis:

- ***Lactobacillus***: *rueteri*, *ramnosus*, *acidophilus*, *helveticus*, *paracasei*, *delbrueckii* subsp. *bulgaricus*, *plantarum*
- ***Bifidobacterium***: *longum*, *lactis*, *animalis*, *bifidum*, *breve*
- ***Streptococcus***: *salivarius*, *thermophilus*
- ***Saccharomyces***: *boulardii*
- ***Pediococcus***: *pentosaceus*

The above list is not exhaustive and includes only common probiotic strains. **Report positive blood cultures for all strains of *Lactobacillus*, *Bifidobacterium*, *Saccharomyces*, and *Pediococcus*, as well as *Streptococcus salivarius* or *thermophilus*.**