**SDC 2.** Pathogens reported on the death certificates of neonates who died in England and Wales between 2003 and 2005

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Term neonates with no recorded co-morbidities** | **Term neonates with co-morbidities** | **Premature neonates (28-36 weeks gestation)** | **Extremely premature neonates (<28 weeks gestation)** | **All infection-related neonatal deaths** |
|   | No. | % \* | No. | % \* | No. | %\*  | No. | %\*  | No.  | %\*   |
| **Bacterial (total)** | **65** |  | **46** |  | **42** |  | **120** |  | **273** |  |
| **Gram positive**  | **52** | **80.0** | **29** | **63.0** | **18** | **43.0** | **58** | **48.3** | **157** | **57.5** |
| Streptococci | 50 | 76..9 | 25 | 54.3 | 11 | 26.2 | 23 | 19.2 | 109 |  |
|  Group B streptococcus | 37 | 56.9 | 21 | 45.7 | 10 | 23.8 | 19 | 15.8 | 87 | 31.9 |
|  Pneumococcus | 4 | 6.2 | 0 | 0.0 | 1 | 2.4 | 0 | 0.0 | 5 | 1.8 |
|  Groups A, C and D streptococci | 3 | 4.6 | 1 | 2.2 | 0 | 0.0 | 2 | 1.6 | 6 | 2.2 |
|  Unspecified Streptococcus | 6 | 9.2 | 3 | 6.5 | 0 | 0.0 | 2 | 1.7 | 11 | 4.0 |
| Staphylococci | 2 | 3.1 | 4 | 8.7 | 6 | 14.3 | 29 | 24.2 | 41 | 15.0 |
|  Coagulase negative staphylococci | 0 | 0.0 | 0 | 0.0 | 2 | 4.8 | 11 | 9.2 | 13 | 4.8 |
|  *S. aureus* | 1 | 1.5 | 0 | 0.0 | 1 | 2.4 | 3 | 2.5 | 5 | 1.8 |
|  MRSA | 1 | 1.5 | 1 | 2.2 | 1 | 2.4 | 1 | 0.8 | 4 | 1.5 |
|  Unspecified *Staphylococcus* sp | 0 | 0.0 | 3 | 6.5 | 2 | 4.8 | 14 | 11.7 | 19 | 7.0 |
| *Enterococcus* Sp. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 2.5 | 3 | 1.1 |
| *Listeria* Sp. | 0 | 0.0 | 0 | 0.0 | 1 | 2.4 | 2 | 1.7 | 3 | 1.1 |
| Unspecified Gram-positive | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.8 | 1 | 0.4 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Gram negative** | **10** | **15.4** | **17** | **37.0** | **24** | **57.1** | **60** | **50.0** | **111** | **40.7** |
| *Escherichia coli* | 2 | 3.1 | 8 | 17.4 | 9 | 21.4 | 18 | 15.0 | 37 | 13.6 |
| *Pseudomonas* Sp. | 3 | 4.6 | 3 | 6.5 | 3 | 7.1 | 10 | 8.3 | 19 | 7.0 |
| *Klebsiella* Sp.  | 1 | 1.5 | 1 | 2.2 | 1 | 2.4 | 5 | 4.2 | 8 | 2.9 |
| Coliforms | 0 | 0.0 | 0 | 0.0 | 1 | 2.4 | 2 | 1.7 | 3 | 1.1 |
| *Enterobacter* Sp | 0 | 0.0 | 0 | 0.0 | 1 | 2.4 | 2 | 1.7 | 3 | 1.1 |
| *Haemophilus influenzae* | 0 | 0.0 | 1 | 2.2 | 0 | 0.0 | 2 | 1.7 | 3 | 1.1 |
| *Morganella* Sp.  | 0 | 0.0 | 1 | 2.2 | 0 | 0.0 | 1 | 0.8 | 2 | 0.7 |
| *Neisseria meningitidis* | 1 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.4 |
| *Serratia marcescens* | 0 | 0.0 | 0 | 0.0 | 1 | 2.4 | 0 | 0.0 | 1 | 0.4 |
| Unspecified Gram-negative | 3 | 4.6 | 3 | 6.5 | 8 | 19 | 20 | 16.7 | 34 | 12.5 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Unspecified bacteria** | **3** | **4.6** | **0** | **0.0** | **0** | **0.0** | **2** | **1.7** | **5** | **1.8** |
|  |  |  |  |  |  |  |  |  |  |  |
| **Viral (total)** | **21** |  | **2** |  | **3** |  | **3** |  | **29** |  |
| Herpes simplex | 13 | 61.9 | 0 | 0.0 | 1 | 33.3 | 0 | 0.0 | 14 | 48.3 |
| Parvovirus | 0 | 0.0 | 1 | 50.0 | 1 | 33.3 | 1 | 33.3 | 3 | 10.3 |
| Coxsackie | 3 | 14.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 10.3 |
| Cytomegalovirus | 0 | 0.0 | 0 | 0.0 | 1 | 33.3 | 1 | 33.3 | 2 | 7.0 |
| Enterovirus | 2 | 9.5 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 7.0 |
| Respiratory syncytial virus | 0 | 0.0 | 1 | 50.0 | 0 | 0.0 | 1 | 33.3 | 2 | 7.0 |
| Unspecified viral | 3 | 14.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 10.3 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Fungal (total)** | **2** |  | **0** |  | **4** |  | **31** |  | **37** |  |
| *Candida* Sp. | 2 | 100.0 | 0 | 0.0 | 2 | 50.0 | 19 | 61.3 | 23 | 62.2 |
| *Aspergillus* Sp. | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 3.2 | 1 | 2.7 |
| Mucomycosis | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 3.2 | 1 | 2.7 |
| Unspecified fungal | 0 | 0.0 | 0 | 0.0 | 2 | 50.0 | 10 | 32.3 | 12 | 32.4 |
|   |   |   |   |   |   |   |   |   |   |   |

\* Percentage denotes proportion of all bacterial, viral or fungal infections, respectively, in the different columns