**S1 Table:** Occurrence of the resistant genes in relation to antibiotic use

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Babies | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 (CS) | - | - ∞γµΩ | - ∞ γµ | - ∞µ | - ∞βµΩ | - ∞Ω | - ∞ β γµΩ | + ∞ β γΩ | - ∞Ω | - ∞ β γΩ | + ∞ β γΩ | - ∞ β γΩ | - ∞ βΩ |
| 2 (CS) | -Ω | + ∞Ω | -\* | \* | - | \* | \* | \* | \* | \* | \* | \* | \* |
| 3(VD) | -● β γµΩ | - ∞ α γµΩ | -● α β γµΩ | -●∞ α β γµΩ | -\* | - ∞ βΩ | -\* | - ∞Ω | - ∞Ω | - ∞Ω | - ∞Ω | \* | \* |
| 4(VD) | -● Ω | +\* | - ∞β γµ Ω | - ∞ βµ Ω | -\* | \* | -\* | - ∞ β Ω | - ∞ Ω | - ∞ γµ Ω | - ∞ β Ω | \* | \* |
| 5(VD) | -● β γµ | + | - | -\* | -\* | - | - | - | - | - | - | \* | \* |
| 6(CS) | -\* | -●● | -\* | -\* | -\* | -\* | -\* | - | +● | - | \* | \* | \* |
| 7(CS) | +\* | - | - | -+ | -+\* | - | -\* | -+● | -+ | -+ | \* | \* | \* |
| 8(VD) | +● | -● | - | -+● | -+ | -● | -● | - | - | - | - | \* | \* |
| 9(VD) | - | - | - | - | \* | - | \* | \* | - | - | \* | \* | \* |
| 10(CS) | -● β Ω | -● | - Ω | +● β Ω | -\* | - β | - ∞ Ω | - ∞ βγ Ω | + β | +● β | - | \* | \* |
| 11(CS) | -∞ | -●● γ | -●● β γ | + | -\* | - β | - β | - ∞ β | -● ∞ β | + ∞ β | - ∞ β | \* | \* |
| 12(CS) | + ∞ β Ω | -\* | -\* | -+\* | -+\* | \* | \* | \* | \* | \* | \* | \* | \* |
| 13(CS) | + β γ | -\* | -\* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 14(VD) | - β | -\* | -\* | -\* | -\* | - ∞ | -\* | + α β Ω | - β Ω | + γ Ω | \* | \* | \* |
| 15(CS) | +● β | + β | - β | - | -\* | -\* | - α | -\* | + | - | \* | \* | \* |
| 16(CS) | + Ω | +● γ Ω | -●∞ Ω | +\* | -\* | -+\* | ++\* | - ∞ β Ω | - | - βµ Ω | \* | \* | \* |
| 17(CS) | -●∞ γµ Ω | - ∞ β γ | -\* | - ∞ β γ | -\* | + β γµ | - ∞ β γ | - | - ∞ γµ Ω | \* | \* | \* | \* |
| 18(VD) | - γµ | +\* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 19(VD) | -\* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 20(VD) | -●∞ γµ | -●∞ Ω | -\* | + β | -\* | + ∞ β Ω | + β γµ | -\* | -●∞ β γ Ω | \* | \* | \* | \* |
| 21(VD) | - | -● | -+● | -+ | -+ β | -+µ Ω | -+ γµ Ω | - γµ Ω | \* | \* | \* | \* | \* |
| 22(CS) | + β Ω | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 23(VD) | -µ | -\* | -\* | -\* | -\* | -●∞ α β Ω | - ∞ α Ω | - ∞ α Ω | - ∞ α γµ Ω | \* | \* | \* | \* |
| 24(VD) | +● γµ | -+ β | - ∞ Ω | -\* | - ∞ | - Ω | +●∞ β Ω | - β γµ | \* | \* | \* | \* | \* |
| 25(VD) | - ∞ Ω | \* | \* | \* | \* | - ∞β γ Ω | \* | + β γ | -\* β γ | - | \* | \* | \* |
| 26(VD) | - β∞ γ Ω | - β∞ γ Ω | -\* | -\* | - ∞ β Ω | +●∞ β | - ∞ γ | - ∞ β γ | \* | \* | \* | \* | \* |
| 27(CS) | - ∞ β γ | - ∞ Ω | -● ∞ | -\* | - ∞ β Ω | + ∞ β Ω | - β | - | -\* | \* | \* | \* | \* |
| 28(CS) | - | - | - β | -\* | - | + | - | - | + | \* | \* | \* | \* |
| 29(VD) | - | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |
| 30(VD) | - | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* | \* |

+ Antibiotic use 0-12 age in months

* No antibiotic use -+ No antibiotic use but there is herbal/natural products use

++ Antibiotic use and also herbal/natural product use \* No data collection

VD vaginal delivery CS caesarean section

● ---- dfr ● ---- TEM β ----- Erm B Ω ----Mef

● -----SHV ∞ ----Tet A γ----- Aac

● -----CTX-M α----- Erm A µ------ BlaZ