# Supplementary Materials: Seasonal and Age–Associated Pathogen Distribution in Newborn Calves with Diarrhea Admitted to ICU
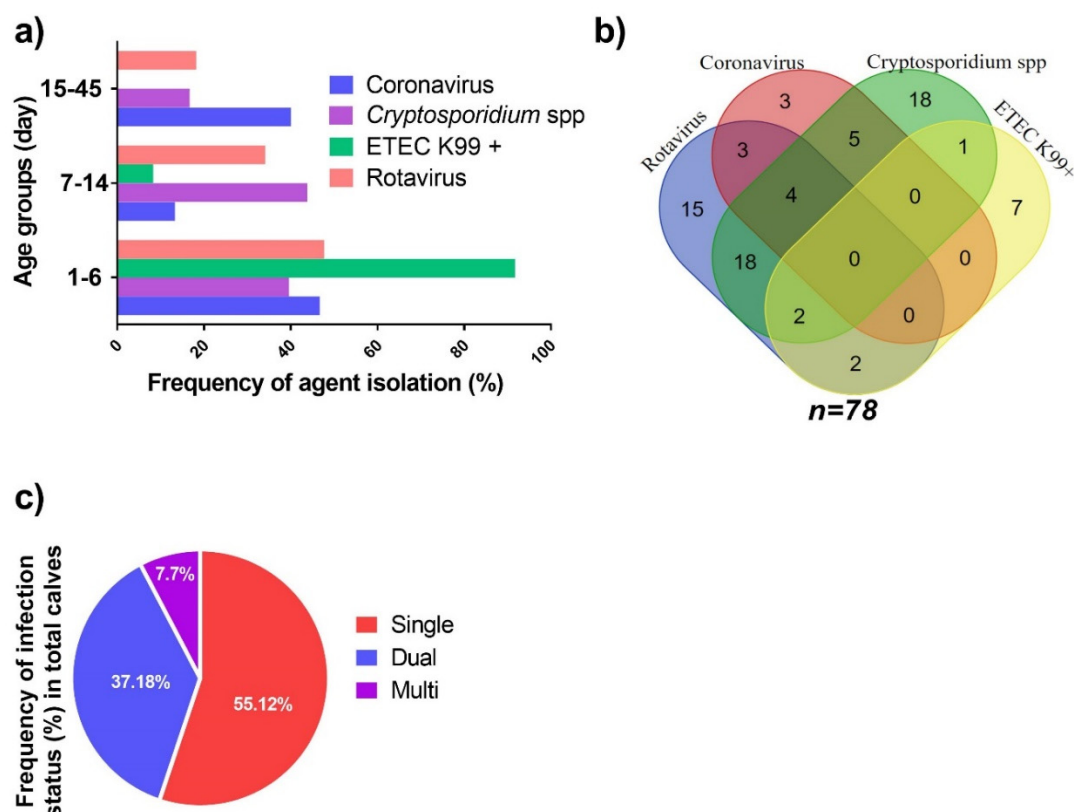


**Figure S1.** Representation of age distributions of identified pathogens from respective age groups. The respective frequencies for each pathogen (**a**) are shown. A Venn diagram shows the occurrence of pathogens in each calf based on single or co-infection (**b**). A pie chart (**c**) shows the frequencies of mode of infection.

**Table S1.** Chi-square test results for the determination of several risk factors of newborn diarrhea in the ICU.

| Risk Factors | | Pathogen Distribution for Each Risk Factor | | | |
|---|---|---|---|---|---|
| | | Rotavirus (*n* = 44) *n*/Total (%) | Coronavirus (*n* = 15) *n*/Total (%) | ETEC K99+ (*n* = 12) *n*/Total (%) | *Cryptosporidium* spp.(*n* = 48) *n*/Total (%) |
| Season | Winter (*n* = 35) | 23/35 (65.7) | 8/35 (22.9) | 4/35 (11.4) | 22/35 (62.9) |
| | Spring (*n* = 26) | 14/26 (53.8) | 4/26 (15.4) | 6/26 (23.1) | 11/26 (42.3) |
| | Summer (*n* = 6) | 4/6 (66.7) | 2/6 (33.3) | 0/6 (0) | 5/6 (83.3) |
| | Autumn (*n* = 11) | 3/11 (27.3) | 1/11 (9.1) | 2/11 (18.2) | 10/11 (90.9) |
| | *p*-value | 0.1475 (ns) | 0.5641 (ns) | 0.4302 (ns) | 0.0255 (*) |
| Age (day) | 1–6 (*n* = 35) | 21/35 (60.0) | 7/35 (20.0) | 11/35 (31.4) | 19/35 (54.3) |
| | 7–14 (*n* = 28) | 15/28 (53.6) | 2/28 (7.1) | 1/28 (3.6) | 21/28 (75.0) |
| | 15–45 (*n* = 15) | 8/15 (53.3) | 6/15 (40.0) | 0/15 (0.0) | 8/15 (53.3) |
| | *p*-value | 0.8466 (ns) | 0.0332 (*) | 0.0018(**) | 0.1875 (ns) |
| Mode of Infection | Single | 15/44 (34.1) | 3/15 (20.0) | 7/12 (58.3) | 18/48 (37.5) |
| | Dual | 23/44 (52.3) | 8/15 (53.3) | 3/12 (25.0) | 24/48 (50.0) |
| | Multi | 6/44 (13.6) | 4/15 (26.7) | 2/12 (16.7) | 6/48 (12.5) |
| | *p*-value | <0.0001 (***) | 0.1225 (ns) | 0.0724 (ns) | 0.0004 (***) |