**Supplementary Table 1.** Prevalence (P) (95% confidence interval) of *Cardicola* spp. infection in ranched Southern Bluefin Tuna from Praziquantel treated pontoons sampled in July 2018, 2019 and 2021.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Company** | **Year** | **n** | **Adult *C. forsteri* in SBT heart** | ***C. forsteri* (ITS-2) in SBT heart** | ***Cardicola* spp. eggs in gills**  | ***C. forsteri* (ITS-2) in SBT gills**  | ***C. orientalis* (ITS-2) in SBT gills** |
|  |  |  |  **P (%)** | **P (%)** | **P (%)** | **P (%)** | **P (%)** |
| A | 2018 | 14 | 93.3 (70.2-99.7) | 100 (79.6-100) | 100(78.5-100) | 100 (78.5-100) | 7.14 (0.37-31.5) |
|  | 2019 | 15 | 66.7 (41.7-84.8) | 55.6 (26.7-81.1) | 86.7(62.1-97.6) | 13.3 (2.37-37.9) | 0.00 (0.00-20.4) |
|  | 2021 | 12 | 0.00 (0.00-24.2) | 63.6 (35.4-84.8) | 58.3(32.0-80.7) | 16.7 (2.96-44.8) | 0.00 (0.00-24.2) |
| B | 2018 | 15 | 26.7 (10.9-52.0) | 33.3 (15.2-58.3) | 80.0(54.8-93.0) | 73.3 (48.0-89.1) | 6.67 (0.34-29.8) |
|  | 2019 | 15 | 28.6 (11.7-54.6) | 28.6 (11.7-54.6) | 73.3(48.1-89.1) | 20.0 (7.05-45.2) | 0.00 (0.00-20.4) |
|  | 2021 | 15 | 53.3 (30.1-75.2) | 73.3 (48.1-89.1) | 66.7(41.7-84.8) | 53.3 (30.1-75.2) | 0.00 (0.00-20.4) |
| C | 2018 | 15 | 42.9 (21.4-67.4) | 64.3 (38.8-83.7) | 86.7(62.1-97.6) | 53.3 (30.1-75.2) | 0.00 (0.00-20.4) |
|  | 2019 | 15 | 14.3 (2.53-39.9) | 61.5(35.5-82.3) | 73.3(48.1-89.1) | 46.7 (24.8-69.9) | 0.00 (0.00-20.4) |
|  | 2021 | 15 | 13.3 (2.37-37.9) | 33.3 (15.2-58.3) | 53.3(30.1-75.2) | 20.0 (7.05-45.2) | 0.00 (0.00-20.4) |
| D | 2018 | 15 | 53.3 (30.1-75.2) | 86.7 (62.1-97.6) | 100(79.6-100) | 93.3 (70.2-99.7) | 0.00 (0.00-20.4) |
|  | 2019 | 15 | 20.0 (7.05-45.2) | 66.7(41.7-84.8) | 73.3(48.1-89.1) | 66.7 (41.7-84.8) | 6.67 (0.34-29.8) |
|  | 2021 | 14 | 6.67 (0.34-29.8) | 46.7 (24.8-69.9) | 71.4(45.4-88.3) | 28.6 (11.7-54.6) | 0.00 (0.00-22.8) |
| E | 2018 | 15 | 50.0 (26.8-73.2) | 85.7 (60.1-97.5) | 100(79.6-100) | 80.0 (54.8-92.3) | 0.00 (0.00-20.4) |
|  | 2019 | 15 | 20.0 (7.05-45.2) | 18.2(3.23-47.7) | 46.7(24.8-69.9) | 80.0 (54.8-92.3) | 0.00 (0.00-20.4) |
|  | 2021 | 15 | 69.2 (42.4-87.3) | 76.9 (49.7-91.8) | 93.3(70.2-99.7) | 46.7 (24.8-69.9) | 0.00(0.00-20.4) |
| F | 2018 | 15 | 46.7 (24.8-69.9) | 60.0 (35.7-80.2) | 80.0(54.8-93.0) | 40.0 (19.8-64.3) | 0.00 (0.00-20.4) |
|  | 2019 | 14 | 42.9 (21.4-67.4) | 36.4(15.2-64.6) | 78.6(52.4-92.4) | 64.3 (38.8-83.7) | 0.00 (0.00-21.5) |
|  | 2021 | 15 | 66.7 (41.7-84.8) | 80.0 (54.8-93.0) | 80.0(54.8-93.0) | 60.0(35.7-80.2) | 0.00 (0.00-20.4) |
| G | 2018 | 13 | 40.0 (19.8-64.3) | 66.7 (41.7-84.8) | 84.6(57.8-97.3) | 53.3(30.1-75.2) | 0.00 (0.00-22.8) |
|  | 2019 | 15 | 73.3 (48.1-89.1) | 86.7(62.1-97.6) | 100(79.6-100) | 86.7(62.1-97.6) | 13.3 (2.37-37.9) |
|  | 2021 | 15 | 26.7 (10.9-52.0) | 80.0 (54.8-93.0) | 73.3(48.1-89.1) | 53.3(30.1-75.2) | 0.00 (0.00-20.4) |