**Appendix 2.** Results of general linear models for meta-analysis.

**Model A: Focal host fishing status**

*Test of moderators, QM = 800.7958, df = 1, p < 0.0001*

*Test for residual heterogeneity, QT = 2991.6008, df = 72, p < 0.0001*

**Parameter estimate SE z p**

intercept[unfished] 1.8095 0.0556 32.5724 <0.0001

focal host fishing status[fished] –1.7281 0.0611 –28.2983 <0.0001

**Model B: Fishing status of all hosts in the life cycle**

*Test of moderators, QM = 814.1796, df = 2, p < 0.0001*

*Test for residual heterogeneity, QT = 2978.2170, df = 71, p < 0.0001*

**Parameter estimate SE z p**

Intercept[unfished] 1.9021 0.0592 32.1325 <0.0001

all hosts fishing status[uncertain] –0.8251 0.1784 –4.6259 <0.0001

all hosts fishing status[fished] –1.8173 0.0644 –28.2252 <0.0001

**Model C: Parasite life cycle complexity**

*Test of moderators, QM = 756.8212, df = 1, p < 0.0001*

*Test for residual heterogeneity, QT = 3035.5755, df = 72, p < 0.0001*

**Parameter estimate SE z p**

Intercept[complex life cycle] –0.1741 0.0306 –5.6890 <0.0001

parasite life cycle[directly transmitted] 1.2809 0.0466 27.5104 <0.0001

**Model D: Life cycle complexity–host fishing status grouping**

*Test of moderators, QM = 2572.8800, df = 4, p < 0.0001*

*Test for residual heterogeneity, QT =1219.5167, df = 69, p < 0.0001*

**Parameter estimate SE z p**

Intercept[complex/all hosts unfished] 1.9351 0.0600 32.2364 <0.0001

complex/host fishing status uncertain –0.8582 0.1786 –4.8038 <0.0001

complex/some host fished –2.9434 0.0702 –41.9261 <0.0001

direct/host unfished –1.1970 0.3612 –3.3138 0.0009

direct/host fished –0.8247 0.0696 –11.8460 <0.0001

**Model E: Life cycle complexity–host fishing status grouping**

*Test of moderators, QM = 2573.1297, df = 3, p < 0.0001*

*Test for residual heterogeneity, QT =1219.2670, df = 70, p < 0.0001*

**Parameter estimate SE z p**

Intercept[complex/focal host unfished] 1.8363 0.0562 32.6488 <0.0001

complex/focal host fished –2.8562 0.0670 –42.6055 <0.0001

direct/host unfished –1.0981 0.3606 –3.0452 0.0023

direct/host fished –0.7258 0.0664 –10.9341 <0.0001