**Supplementary Material:**

Analysis of lifetime mortality trajectories in wildlife disease research: BaSTA and beyond

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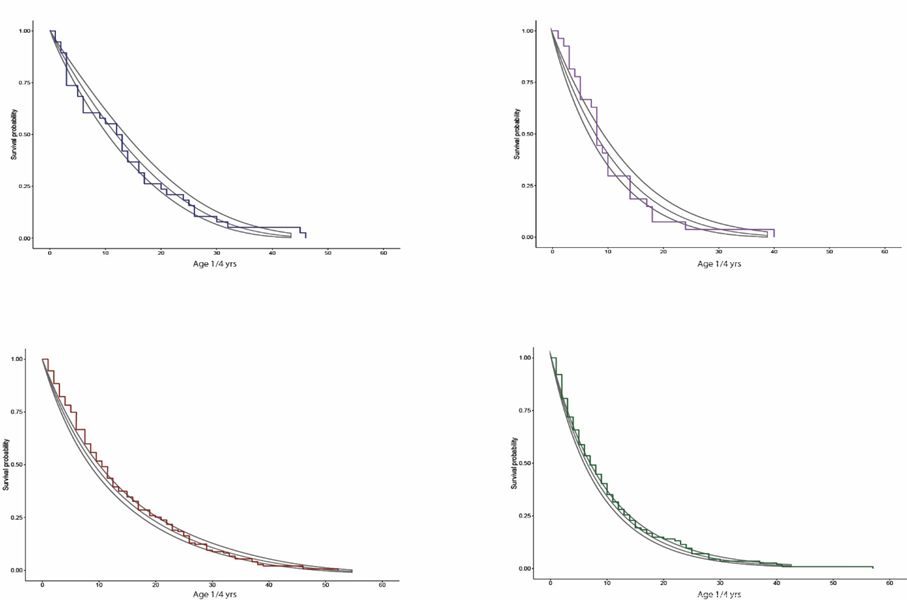
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**Figure S1.** Kaplan-Meier plots (in red) of observed survival on top of predicted survival trajectories and 95% confidence intervals for a population of European badgers naturally infected with *bovine tuberculosis*. Split by sex and infection status (a) Cub-positive females; (b) Cub-positive males; (c) Never-positive females; (d) Never-positive males.

**Table S1.** Posterior parameter estimates, standard deviations and lower/upper 95% confidence intervals of mortality trajectories for a population of wild European badgers naturally infected with *bovine tuberculosis*.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Status | Gender | Estimate | S.D | Lower | Upper |
| a0 | **Cub positive** | **Female** | −4.29 | 0.59 | −5.52 | −3.22 |
| **Male** | −4.07 | 0.65 | −5.41 | −2.90 |
| **Never positive** | **Female** | −2.35 | 0.15 | −2.70 | −2.13 |
| **Male** | −2.57 | 0.36 | −3.41 | −2.06 |
| a1 | **Cub positive** | **Female** | 1.02 | 0.85 | 0.01 | 2.85 |
| **Male** | 0.95 | 0.88 | 0.00 | 2.82 |
| **Never positive** | **Female** | 0.06 | 0.02 | 0.03 | 0.09 |
| **Male** | 0.05 | 0.02 | 0.02 | 0.11 |
| c | **Cub positive** | **Female** | 0.02 | 0.01 | 0.00 | 0.05 |
| **Male** | 0.04 | 0.02 | 0.00 | 0.08 |
| **Never positive** | **Female** | 0.02 | 0.01 | 0.00 | 0.05 |
| **Male** | 0.04 | 0.02 | 0.00 | 0.09 |
| b0 | **Cub positive** | **Female** | −3.72 | 0.45 | −4.76 | −3.07 |
| **Male** | −3.66 | 0.65 | −5.14 | −2.69 |
| **Never positive** | **Female** | −5.32 | 0.68 | −6.71 | −4.04 |
| **Male** | −4.30 | 0.79 | −5.93 | −2.90 |
| b1 | **Cub positive** | **Female** | 0.05 | 0.01 | 0.03 | 0.07 |
| **Male** | 0.04 | 0.02 | 0.01 | 0.08 |
| **Never positive** | **Female** | 0.07 | 0.02 | 0.04 | 0.10 |
| **Male** | 0.03 | 0.02 | 0.00 | 0.07 |

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