**Table S2**. Evaluation of reporting quality in all studies included in the systematic review.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Studies**  **Quality criteria** | **Leite et al. 2017** | **Penitente et al. 2015** | **Chumbinho et al. 2012** | **Costa et al. 2010** | **Leon et al. 2003** | **Criteria completed (n)** | **Criteria completed (%)** |
| **Title** |  |  |  |  |  |  |  |
| Accurate and concise description of the content of the article | √ | √ | √ | √ | √ | 5 | 100 |
| **Abstract** |  |  |  |  |  |  |  |
| Summary of the background, objectives, methods, main findings and conclusions | √ | √ | √ | √ | √ | 5 | 100 |
| **Background** |  |  |  |  |  |  |  |
| Sufficient scientific background | √ | √ | √ | √ | √ | 5 | 100 |
| Rational explanation of the experimental approach | √ | √ | √ | √ | √ | 5 | 100 |
| **Objectives** |  |  |  |  |  |  |  |
| Cleary primary and secondary objectives | √ | √ | √ | √ | √ | 5 | 100 |
| **Materials and Methods** |  |  |  |  |  |  |  |
| **Ethical statement** |  |  |  |  |  |  |  |
| Ethical review permissions, relevant licenses and official guidelines for use of animals | √ | √ | √ | √ | √ | 5 | 100 |
| **Study design** |  |  |  |  |  |  |  |
| Numbers of animals per group | √ | √ | √ | √ | √ | 5 | 100 |
| Information on whether the experiment was performed as a blind controlled study | No | No | No | No | No | 0 | 0 |
| **Experimental procedures** |  |  |  |  |  |  |  |
| Parasite species | √ | √ | √ | √ | √ | 5 | 100 |
| √:Criteria completed, No: criteria not completed. | | | | | |  |  |
| **Table S2 (*continuation*).** Evaluation of reporting quality in all studies included in the systematic review. | | | | | |  |  |
| **Studies**  **Quality criteria** | **Leite et al. 2017** | **Penitente et al. 2015** | **Chumbinho et al. 2012** | **Costa et al. 2010** | **Leon et al. 2003** | **Criteria completed (n)** | **Criteria completed (%)** |
| Parasite strain | √ | √ | √ | √ | √ | 5 | 100 |
| Parasite inoculum | √ | √ | √ | √ | √ | 5 | 100 |
| Inoculum route | √ | No | √ | √ | √ | 4 | 80 |
| Time of infection | √ | √ | √ | √ | √ | 5 | 100 |
| Rationale for choice of parasite inoculum | No | No | No | No | No | 0 | 0 |
| Rationale for choice of route of administration | No | √ | No | No | No | 1 | 20 |
| **Experimental animals** |  |  |  |  |  |  |  |
| Information regarding animals species | √ | √ | √ | √ | √ | 5 | 100 |
| Strain of the animal | √ | √ | √ | √ | √ | 5 | 100 |
| Sex of the animal | √ | √ | √ | √ | √ | 5 | 100 |
| Weight range of the animals | No | No | √ | No | √ | 2 | 40 |
| Age of the animals | √ | √ | √ | √ | √ | 5 | 100 |
| Information related to previous procedures performed on the animals | No | No | No | No | No | 0 | 0 |
| **Housing and husbandry** |  |  |  |  |  |  |  |
| Housing of experimental animals (facility, animals/cage, material) | No | No | No | √ | No | 1 | 20 |
| Breeding program, light/dark cycle, temperature, quality of water | No | No | √ | √ | No | 2 | 40 |
| Welfare-related assessments before, during, or after the experiment | No | No | No | No | No | 0 | 0 |
| **Sample size** |  |  |  |  |  |  |  |
| Number of animals used for each experimental and group | √ | √ | √ | √ | √ | 5 | 100 |
| Explanation regarding number of animals and sample size calculation | No | No | No | No | No | 0 | 0 |
| √:Criteria completed, No: criteria not completed. |  |  |  |  |  |  |  |
| **Table S2 (*continuation*).** Evaluation of reporting quality in all studies included in the systematic review. | | | | | |  |  |
| **Studies**  **Quality criteria** | **Leite et al. 2017** | **Penitente et al. 2015** | **Chumbinho et al. 2012** | **Costa et al. 2010** | **Leon et al. 2003** | **Criteria completed (n)** | **Criteria completed (%)** |
| **Allocating animals to experimental groups** |  |  |  |  |  |  |  |
| Full details of how animals were allocated to groups (randomization) | No | No | No | No | No | 0 | 0 |
| Order of animals inoculated and evaluation | No | No | No | No | No | 0 | 0 |
| **Experimental outcomes** |  |  |  |  |  |  |  |
| Clear experimental outcomes assessed | √ | √ | √ | √ | √ | 5 | 100 |
| **Statistical methods** |  |  |  |  |  | 5 | 100 |
| Statistical methods used for each analysis | √ | √ | √ | √ | √ | 5 | 100 |
| Specification of the unit of analysis for each dataset | √ | √ | √ | √ | √ | 5 | 100 |
| Methods used to assess adequacy of the statistical approach | No | No | No | No | No | 0 | 0 |
| **Results** |  |  |  |  |  |  |  |
| **Baseline data** |  |  |  |  |  |  |  |
| Description of health status of animals before inoculation | No | √ | No | No | No | 1 | 20 |
| **Numbers analyzed** |  |  |  |  |  |  |  |
| Number of animals in each group included in each analysis | √ | √ | √ | √ | √ | 5 | 100 |
| Data not included in the analysis (explanation of exclusion) | No | No | No | No | No | 0 | 0 |
| **Outcomes and estimation** |  |  |  |  |  |  |  |
| Description of results (quality of text, tables, figures) | √ | √ | √ | √ | √ | 5 | 100 |
| Information statistical (Mean Standard± Deviation) | √ | √ | √ | √ | √ | 5 | 100 |
| √:Criteria completed, No: criteria not completed. | | | | | |  |  |
| **Table S2 (*continuation*).** Evaluation of reporting quality in all studies included in the systematic review. | | | | | |  |  |
| **Studies**  **Quality criteria** | **Leite et al. 2017** | **Penitente et al. 2015** | **Chumbinho et al. 2012** | **Costa et al. 2010** | **Leon et al. 2003** | **Criteria completed (n)** | **Criteria completed (%)** |
| **Adverse events** |  |  |  |  |  |  |  |
| Information regarding mortality | No | √ | √ | √ | √ | 5 | 100 |
| Modifications to the protocols to reduce adverse events | No | No | No | No | No | 0 | 0 |
| **Discussion** |  |  |  |  |  |  |  |
| **Interpretation/scientific implications** |  |  |  |  |  |  |  |
| Interpretation of the results, consider objectives, hypotheses, current theory | √ | √ | √ | √ | √ | 5 | 100 |
| Comments on limitations (bias, limitations of the model, imprecision of results) | No | No | √ | No | No | 1 | 20 |
| **Generalizability/translation** |  |  |  |  |  |  |  |
| Comments on how the findings are likely to translate to other species and relevance to humans | √ | √ | √ | No | No | 3 | 60 |
| **Funding** |  |  |  |  |  |  |  |
| List of funding sources and the role of the founder (s) in study | √ | √ | √ | √ | √ | 5 | 100 |
| **Criteria completed (n)** | **26** | **28** | **31** | **28** | **28** |  |  |
| **Criteria completed (%)** | **60** | **65** | **72** | **65** | **65** |  |  |

√:Criteria completed, No: criteria not completed.