Thank you for reviewing our paper and improving its quality. We were happy to make all but one of the suggested changes. The one change we did not make was based on a comment from the Editor-in-Chief.

Review: “…….**Orthopaedic Risk-factor Studies”**

1. In the title suggest adding “…..of veterinary orthopaedic……”
   1. The Editor-in-Chief suggested omitting the word “veterinary” as VCOT Open is a veterinary journal. This is the only change we did not make.
2. In keywords add “veterinary orthopaedics”
   1. Done
3. *“That is, finding P<0.05 when it should.”* Please explain “when it should be found ?”
   1. We replaced the sentence with, *That is, finding P<0.05* *when the statistical alternative hypothesis is true.*
4. aim one. instead of Aim 1.
   1. Done
5. isn’t: please use “is not”
   1. Done
6. In the paragraph describing simulation algorithm both present and past tense is being used; please change uniformly to past tense because you are describing what you did (for instance: “we calculated…..”)
   1. Done.
7. Discussion: I am not sure whether the factor of costs should be high lit here; in the Introduction, clinical studies were given as examples; when it comes to the financial aspect of increasing sample or control group size, this associates rather with experimental studies.
   1. The reviewer’s point is noted. We changed the original sentence, “*If subjects were very expensive, as they may be in an experimental study, then the apparently small drop in power (0.09) is actually large in terms of cost” to* “*If subjects were very expensive, as they may be in an experimental study, then the apparently small drop in power (0.09) is actually large in terms of cost.” We hope that change satisfies the reviewer.*
8. That’s say “that is”
   1. Done
9. Spell out GWAS at first use
   1. Done
10. ….in this research. Please say “in this study (or “in this simulation)”
    1. Done. We used “simulation.” Thank you for the suggestion.
11. As last sentence of Discussion, please add a concluding/summarizing sentence like the one you used in “Conclusions” of the abstract
    1. We added the concluding sentence: *For risk-factor studies, researchers should first consider using positive-unlabeled data analysis methods, but if that is not possible, then caution should be used in calculating sample sizes for risk-factor studies.*
12. In References please use standard journal abbreviations (see reference style VCOT Open)
    1. We believe we fixed all the mistakes.