

Editors Comments:

1. In the Abstract, line 3, remove “For that” and reframe the sentence (for example, “The present work involves the following steps:”). Line 4, remove “measurement” (it should be..” instruments used to measure..). Line 10 change to, “CCT tests performed in...”. Line 11 reframe the sentence, “ The discussion of the effects of uncertainty on the test diagnosis compared callipers with resolutions of 0.1 mm and 0.01 mm” (for example, write, “ To determine the effects of uncertainty on the test diagnosis, we compared callipers with resolutions of 0.1 mm and 0.01 mm”)
2. Line 27, Reframe the sentence to distinguish TB caused by *Mycobacterium tuberculosis* or *Mycobacterium bovis* (for example, write, “Bovine tuberculosis (TB) caused by *Mycobacterium bovis* was first described...”).
3. Line 30, Remove “Nowadays”.
4. Line 40. Briefly mention what are the dramatic consequences (just quoting a reference is not sufficient)
5. Line 59, Reframe the line....around farms makes difficult the 59 eradication of this disease from cattle herds even in...(for example, write, “ ...around farms makes the eradication of this disease from cattle herds difficult even in..”)
6. Line 83, what is “the level of users” ? Does it refer to “the educational level of users” or “the level of knowledge of the users “ ?
7. Line 105, remove “to be”. Write, “The criteria investigated in this study are:”
8. Line 113, Reframe the sentence. Tuberculin test is not a methodology to control and eradicate TB (for example, write, “A simple methodology to diagnose bovine tuberculosis involves...”)
9. Line 156, write...”the thickness measured immediately..”
10. Lines 161 and 177 the same equation is repeated with a different Eq. numbers. Reframe the Eq. numbers for consistency.
11. Line 221, “Z” should not be capitalized.
12. Line 241, In the Materials and Methods, describe the demographics of the cattle (for example, mention the age, sex and other housing parameters of animals, such as temperature, food consumption etc), since these factors could affect the measurement of PPD reaction.
13. Also, mention the details about the digital calliper and how it was used ?
14. Line 254. Reframe the sentence (for example write “after 72 hours” or “72 hours after inoculation”.
15. Line 262. Mention the manufacturer information for the calipers used in this study.

16. Line 269. Mention the address of LAROY LAB.
17. Line 276. Expand “NM-ISO”
18. Line 284. Expand the title as “Evaluation of the Uncertainty Associated with the Calliper Calibration using Gauge Block”. This is useful to clarify/distinguish from the uncertainty formulas used in section 3.3 (line number 308, for the measurement of skin fold)
19. Line 286. Expand “ISO TAG 4 WG/3”
20. Line 296 and 299. Variability of the value indicated by the calliper was denoted as $s(L)$ (in Eq.6 and line 299) but the same definition was denoted as $s(R)$ in Line number 288. Correct for consistency or distinguish between these two variables.
21. Line 296. Change the font for “alpha and sigma” symbols. The same font change is also noted in several places in this manuscript. For example, line 161 and line 305 etc., Use same font throughout the manuscript.
22. Line 343, correct the word, “measurand”
The term “measurand” was not corrected because according to JCGM 200 (2008) measurand is quantity intended to be measured.
23. Line 349. The “reproducibility conditions” were defined.
24. Line 365, foi expandido “IC” ?
25. Line 375. It needs to be clarified whether Eq.13 (which is for avian PPD; A_0) is true for bovine PPD (B_0). Also, explain how this equation is reflected for the uncertainty at A_{72} and/or B^{72} ? (for example, mention whether additional correction factors were included in the equation).
26. Line 401. Table 3. Provide the values in atleast 3 decimals (i.e, instead of 5.1, it should be 5.100 or 5.149 etc.,). The same correction is needed for all the tables in this manuscript.

O número de casas decimais do resultado de uma medição é definido pela resolução do sistema de medição. Desta forma, quando é utilizado um cutímetro com resolução de 0,1 mm então a indicação do mesmo é expressa como 5,1 mm; 5,0 mm.
27. Line 437. Table 5. Mention in the foot note that the values are in mm.
28. Line 449. Correct the sentence. “TableTable 6.”
29. Line 506. Mention the manufacturer information (company name, location).
30. Line 528. Where is (a) and (b) in figure.3?

Author Feedback:

1. Changed as suggested, Lines 3, 4, 10 and 11.
2. Changed as suggested, Line 27.
3. Removed, Line 30.
4. The consequences were included in Lines 40-47.
5. Changed as suggested, Line 65.
6. Line 89, substituted by “the level of knowledge of the users “
7. Changed as suggested, Line 111.
8. Changed as suggested, Line 119.
9. Changed as suggested, which required a slight change in the following sentence, Line 162.
10. The equation was removed and all equations were reordered.
11. Changed as suggested (small letter), Line 222.
12. Line 244-253, In the Materials and Methods, was mentioned the age, sex and other housing parameters of animals, such as temperature, food consumption etc.
The age and sex of the animals, according to PNCEBT [5], not interfere in PPD test, but some other factors may interfere. There cattle, infected but did not react to tuberculin due to a temporary failure of the immune system induced by repeated inoculation of tuberculin or application of high concentrations of antigen, called desensitization. It is a short-lived phenomenon and ceases when the population of T lymphocytes is restored. False-negative reactions may also occur in the next birth or in animals with poor nutrition. In animals with generalized tuberculosis, or in the final stages of the disease, there is an excess of circulating antigen that induces a specific immune suppression and, consequently, an inhibition of the production of necessary for the activation of macrophages participating in the reaction of delayed hypersensitivity cytokines. This is the phenomenon of anergy mentioned in previous pages of the PNCEBT [5].
13. The use of the calliper was added in Lines 256-261.
14. Line 269. The sentence was rephrased.
15. Lines 277-279. The required information was added.
16. Line 285-287. The required information was added.
17. Line 295-296. “NM-ISO” was expanded.
18. Line 302-303. The title was expanded as “Evaluation of the Uncertainty Associated with the Calliper Calibration using Gauge Block”.

19. Line 306. "ISO TAG 4 WG/3" was expanded.
20. Line 308 and 320. Variability of the value indicated by the calliper was denoted as $s(L)$.
21. The font for "alpha and sigma" symbols was the same throughout the manuscript.
22. Line 343, The term "measurand" was not corrected because according to JCGM 200 (2008) measurand is quantity intended to be measured.
23. Line 357-358. The "reproducibility conditions" were defined.
24. Line 388, "IC" was expanded.
25. Line 404 and 405. Eq.12 (which is for avian PPD; A_0) is also valid for bovine PPD (B_0), for A_{72} and for B_{72} . This was clarified in the revised manuscript.
26. The number of decimal places used for a measurement depends on the resolution of the measurement system. Therefore, when a calliper with a resolution of 0.1 mm is used, the measurement result must be expressed as 5.1 mm, 5.0 mm, etc.
27. Line 453. Table 5. A foot note mentions that the values are in mm.
28. Line 465. The sentence was corrected.
29. Line 526 and 527. The required information was added.
30. (a) and (b) were added to figure 3.