

**Editorial comments:**

A1: TITLE PAGE (line 2) “The manuscript will benefit from thorough language revision as there are a number of grammatical errors throughout. Please have a proficient English speaker thoroughly review the manuscript and edit any errors. I have marked the sentences that are hard to understand in green color.”

**REPLY:** The sentences with grammatical errors have been edited as you mentioned.

A2: SUMMARY (line 46-49) Needs revisions for language. As it is written, it is hard to understand what is being said.

**REPLY:** The sentences have been edited as “Here, we prepare a protocol for creating an immunocompetent ICR murine model of CNS infection to display the development of neuropathy. Monitoring acute viral encephalitic disorders by the identical disease scores could be performed for showing DENV-induced neuropathy in vivo.” (Line 46-49).

A3: ABSTRACT (line 59-60) Do you mean detecting viral replication?

**REPLY:** The sentence has been deleted. This study focused on the creation of infectious model and disease scoring.

A4: ABSTRACT (line 60-62) Needs revisions for language.

**REPLY:** The sentence has been deleted.

A5: INTRODUCTION (line 84-87) Needs references.

**REPLY:** The sentences have been edited as “According to the findings<sup>5-9</sup>, DENV infection in mice .....” (Line 81).

A6: INTRODUCTION (line 87) References?

**REPLY:** The sentences have been edited as “All of results from these studies<sup>5-9</sup> .....” (Line 84-85).

A7: PROTOCOL 1.1 (line 104) Please add it of the table of materials.

**REPLY:** The materials have been added in the Table of Materials.

A8: PROTOCOL 1.2 (line 107) Add to the table of materials.

**REPLY:** The materials have been added in the Table of Materials.

A9: PROTOCOL 1.4 (line 114) Add mouse strain to the table of materials.

**REPLY:** The materials have been added in the Table of Materials.

A10: PROTOCOL 1.5 (line 118-120) Is this the same mouse? It will be better if you organize step 1.4 and 1.5 in a logical manner, instead of the parallel description of 2 types of injections.

**REPLY:** The sentences have been corrected as you mentioned (Line 111-118).

A11: PROTOCOL 1.7 (line 131) Please expand and describe the measurements. How are the animals maintained during the testing phase?

A12: PROTOCOL 1.7 (line 131-132) How was this checked for? Please describe the signs.

**REPLY:** The information has been added as you mentioned (Line 129-132) as “Animals are maintained in the Institutional Animal Care and User Committee of National Defense Medical Center, Taiwan. We next evaluate the daily progress of the mice in terms of body weight (by using Microbalance), acute viral encephalitis-like disease (by disease scoring as described below), and survival rate accordingly.”.

A13: REPRESENTATIVE RESULTS (line 149) In humans?

**REPLY:** The sentences have been corrected as you mentioned (Line 147-148).

A14: REPRESENTATIVE RESULTS (line 162) Define this group, what was injected?

**REPLY:** The group has been corrected as you mentioned (Line 161-162).

A15: FIGURE LEGENDS (line 171) Please remove the text “Shen et al. Figure #” from all figures.

**REPLY:** The figures have been corrected as you mentioned.

A16: DISCUSSION (line 192) Do you mean detected?

**REPLY:** The sentence has been corrected as you mentioned (Line 192).

A17: DISCUSSION (line 198-199) References?

**REPLY:** The references have been added (Line 199).

A18: DISCUSSION (line 205) This was not demonstrated in the current manuscript. Please cite your previously published work where you reported this.

**REPLY:** The references have been added (Line 205).

A19: DISCUSSION (line 212-213) References?

**REPLY:** The references have been added (Line 213).

A20: DISCUSSION (line 224) I am not sure what is being said, it however appears unsupported by this article.

**REPLY:** The sentence has been corrected (Line 224).