**Editorial comments:**  
  
**1. The editor has formatted the manuscript to match the journal's style. Please retain the same.**

The formatting has been retained.

**2. Please address all specific comments marked in the manuscript.**

We have thoroughly reviewed and revised the manuscript to address the comments. Changes have been tracked.

**3. Please add more details to your protocol steps. Please ensure you answer the “how” question, i.e., how is the step performed?**

We have substantially edited and reorganized the protocol to address all the comments and “how” questions throughout the manuscript. It should now contain all the necessary information to allow investigators to implement their previously established prosthetic NMI systems and characterize the development of agency during its operation.

Additionally, the authors feel that perhaps our scope was not clearly stated. To help the reader, we added an explicit scope statement that clearly defines the aim of this protocol as a frame work to evaluate the sense of agency during the operation of previously established NMI prosthetic systems (lines 132-133). NMIs are highly customized experimental systems; therefore, we also added a statement suggesting that using this protocol will require developing a customized and individual master control program to integrate an investigator’s unique NMI control strategies, kinesthetic feedback techniques, and virtual prosthetic system (lines 164-166). The necessary functions/requirements of this program are described throughout the protocol, and have been presented in a manner in which the reader should understand that the specifics technical details relating to software development and hardware integration are beyond the scope of this protocol.

**4. The Protocol should contain only action items that direct the reader to do something with specific details with respect to your experiment: hard experimental steps, button clicks, graphical user interface, knob turns etc. This is important for filming purpose.**

We have revised the wording throughout the protocol to contain only action items. Additionally, we have made a number of adjustments to the protocol to more appropriately describe the function of the control software and how an investigator will interact with it to perform the experiments.

**5. Once done, please check that the protocol is no longer than 10 pages and highlighted section is no longer than 2.75 pages including headings and spacings.**

The protocol remains less than 10 pages and less than 2.75 pages have been highlighted.

**NOTE:** We have removed the use of the word LabVIEW as this is a commercial piece of software. However, the references to MuJoCo were not removed as this is experimental (not commercial) software. Appropriate citations are provided in the text for this software.