**Declaration of co-authorship concerning article for PhD dissertations**

Full name of the PhD student: Johannes Aagaard Enevoldsen

This declaration concerns the following article/manuscript:

|  |  |
| --- | --- |
| Title: | The Effects of Respiratory Rate and Tidal Volume on Pulse Pressure Variation in  Healthy Lungs—A Generalized Additive Model Approach May Help Overcome  Limitations |
| Authors: | JJohannes Enevoldsen  Birgitte Brandsborg  Peter Juhl-Olsen  Stephen Edward Rees  Henriette Vind Thaysen  Thomas W.L. Scheeren  Simon Tilma Vistisen |

The article/manuscript is: Published  Accepted  Submitted  In preperation

If published, state full reference:

If accepted or submitted, state journal:  British Journal of Anaesthesia

Has the article/manuscript previously been used in other PhD or doctoral dissertations?

No  Yes  If yes, give details:

**Your contribution**  
  
Please rate (A-F) your contribution to the elements of this article/manuscript, **and** elaborate on your rating in the free text section below.

1. Has essentially done all the work (>90%)
2. Has done most of the work (67-90 %)
3. Has contributed considerably (34-66 %)
4. Has contributed (10-33 %)
5. No or little contribution (<10%)
6. N/A

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| --- | --- |
| Category of contribution | Extent (A-F) |
| The conception or design of the work: | C |
| *Free text description of PhD student’s contribution* ***(mandatory)***  Johannes discussed different parts of the study design with the co-authors with relevant expertise, and formulated the final protocol with Simon Vistisen. | |
| The acquisition, analysis, or interpretation of data: | B |
| *Free text description of PhD student’s contribution* ***(mandatory)***  Johannes included patients, recorded data, formulated initial statistical models and wrote analysis code. Interpretation and revisions of the models were discussed with co-authors. | |
| Drafting the manuscript: | B |
| *Free text description of PhD student’s contribution* ***(mandatory)***  Johannes prepared the initial draft, which was then revised and supplemented by co-authors | |
| Submission process including revisions: | A |
| *Free text description of PhD student’s contribution* ***(mandatory)***  Johannes prepared and submitted the manuscript. | |

**Signatures of first- and last author, and main supervisor**

|  |  |  |
| --- | --- | --- |
| Date | Name | Signature |
| 26-10-2022 | Johannes Enevoldsen |  |
| 26-10-2022 | Simon Vistisen |  |
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Date:

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Signature of the PhD student