**Author’s response to reviews**

**Title:** Multifactorial intervention for hip and pelvic fracture patients with mild to moderate cognitive impairment: Study protocol of a dual-centre randomised controlled trial (OF-CARE)

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**Author’s response to reviews:**

Stuttgart, Germany

12 March, 2019
Dear Robin L. Cassady-Cain,

We want to thank for your comments. In addition, we appreciate the further beneficial comments given by the reviewer. All comments were thoroughly reviewed and are listed point-by-point below. Adjustments were made in the manuscript.

Thank you very much for processing and finalizing our manuscript.

Best regards,

Anja Dautel on behalf of all co-authors

Technical Comments:

‘Title page needs institutions, countries and email addresses of all authors, and the full postal address of the submitting author’.

The full postal address of the submitting author was added. (Author information, page 1, line 21)

‘Table should be in proper place’.

Tables were reviewed regarding place and where they are mentioned in the continuous text.
- Table 1: Intervention section, page 9, line 201, mentioned page 9, line 198.
- Table 2: Intervention section, page 12 to 13, line 263, mentioned page 11, line 254.
- Table 3 and 4: Outcome measures section, page 19-21, line 409 et seqq., both mentioned page 19, line 405.

Reviewer reports:

Major

‘Please consider further revising the manuscript regarding the primary outcomes and their measurement time-points. These revisions could also include adding measurement time-points
for the primary outcome to Table 3 (with either an alternate symbol or a superscript and footnote) and in the section titled 'Primary outcome measures'. The CONSORT/SPirit guides and Boutron 2017 (Annals of Internal Medicine) give examples of how to clearly state outcomes and measurement time-points.’

The following adjustments were made:

- Tables 3 and 4 were revised according to SPIRIT Statement, reference added (49. Chan et al. 2013), (Outcome measures section, page 19-21, line 405 et seq.).

- First paragraph of outcome measures section was revised, (page 18 to 19, line 395 to 407).

- Order of references in reference list was revised due to adjustments in tables 3 and 4, (page 33 et seq.).

- Name of measurement time points (-T1 and T1 instead of T1A and T1B) was adjusted throughout the manuscript and in Figure 1.

Minor

‘Is adherence/treatment fidelity going to be measured/reported, should it be included as an outcome?’

The following adjustments were made and information about intervention adherence added:

- Intervention adherence (table 3 and 4, outcome measures section, other measures, page 19-21, line 409 et seq.).

- Outcome measures section, page 25, line 508 to 517 (participant): `Adherence to intervention protocol. For Module 1 the delivery of the card sorting task and goal setting is documented. The total number and frequency of supervised home visits, telephone calls, performed exercises (balance, strength, walking, individual exercises based on goal setting) are recorded by the interventionists and lay instructors. The participants are asked to document any additional exercises in their diaries. Non-adherence is defined if at least one of the following criteria is met: (a) less than two joint home visits of the interventionist and lay instructor, or (b) less than 19 of the targeted 32 home visits by the lay instructor without interventionist. For Module 2 the frequency and time of face-to-face and telephone contacts with the patients (and their caregivers) are documented. In counselling scenarios without caregivers non-adherence is defined only by the missing home visit.’
- Outcome measures section, page 26, line 533 to 536 (participating caregiver): `Adherence to intervention protocol. The frequency and time of face-to-face and telephone contacts with the participating caregiver are documented. Non-adherence is defined if at least one of the following criteria is met: (a) no home visit/face-to-face contact or (b) total time of follow-up telephone calls less than 45 minutes.‘

Page 11, line 254: 'choses' should be 'chooses'.
- Corrected.

Page 14, line 273 - 'based on own previous work' should be 'based on our own previous research’?
- Corrected.

Page 13, Table 2, Intensity: 10-12 repetitions a 10s - ‘needs review, should this be 10-12s repetitions of 10s?’
- Corrected.

Page 13, Table 2, Frequency, second column: ‘at should be on?’
- Corrected.