



Correction to: Understanding the relationship between the 32-item motor function measure and daily activities from an individual with spinal muscular atrophy and their caregivers' perspective: a two-part study

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CORRECTION

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Correction to: Understanding the relationship between the 32-item motor function measure and daily activities from an individual with spinal muscular atrophy and their caregivers' perspective: a two-part study

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Correction to: BMC Neurol 21, 143 (2021)

<https://doi.org/10.1186/s12883-021-02166-z>

Following publication of the original article [1], the authors reported the following errors:

- Figure 1. Information regarding the population inclusion/exclusion criteria was previously missing and has been added as a footnote.
- Part 2 quantitative online survey results: The text describing the activity domains (ADLs) most frequently raised for each item in the online survey has been corrected to nine items being more frequently associated with a different ADL domain in the quantitative online survey when compared to the interviews. The overall skip rate (12%) and country response percentage rates for the following countries US (94%), Canada (92%), France (83%), UK (87%), Poland (86%), and Spain (80%) have been corrected.

- Table 3. The footnote letters for items 4, 8, 12, 15, 24, 25, 30, and 31 have been corrected.
- Figure 4. The number of participants selecting voice, difficulty sleeping, and other as important to maintain/improve has been corrected.

Additional information has been added in the Acknowledgements and Declarations sections:

- Carl Cooper (Adelphi Values) wrote the first draft of the manuscript.
- The online survey was conducted following market research principles.
- AB, TD and CV received consultancy fees from Roche for this project.
- LY, SR and ADM are employees of Charles River Associates commissioned by Roche to conduct the online survey.

The original article can be found online at <https://doi.org/10.1186/s12883-021-02166-z>.

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The original article has been corrected. The main findings of the original article are not affected after this correction.



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Table 3 Most frequently reported ADLs in relation to MFM32 item

ADL domain	MFM32 item	Most frequently reported daily activity	Reported in interviews	Reported in survey
Dressing	Item 4 (Pulling up the foot) ^{A,B}	Putting on shoes	✓	✓
	Item 3 (Bringing knee to chest) ^{A,B}	Dressing lower body	✓	✓
	Item 6 (Raise pelvis) ^{A,B}	Putting on pants	✓	✓
	Item 5 (Bringing hand to opposite shoulder) ^A	Dressing upper body	✓	✓
Mobility/transferring	Item 26 (Standing on one foot) ^A	Dressing lower body	✓	✓
	Item 7 (Roll from lying on front to back) ^{A,B}	Turning and moving in bed to change positions	✓	✓
	Item 8 (Lying down to sitting up) ^{A,B}	Getting out of bed	✓	✓
	Item 11 (Sit to stand) ^{A,B}	Stand after a fall/from sitting on floor	✓	✓
	Item 1 (Turning head) ^A	Adjusting position in bed	✓	✓
	Item 2 (Lifting head) ^A	Lifting head to move pillow/getting out of bed	✓	✓
	Item 25 (Stand without support) ^A	Stand from sitting	✓	•
	Item 29 (Walking on a line) ^A	Walking around the house	✓	✓
	Item 12 (Sitting down on a chair from standing) ^A	Sitting down when tired/unsteady	✓	•
	Item 24 (Standing up from sitting on chair) ^A	Stand up from sitting at dinner table/to change position/when carrying objects	✓	✓
Self-care	Item 15 (Bring arms up to place both hands on top of the head) ^{A,B}	Brushing hair	✓	✓
	Item 5 (Bringing hand to opposite shoulder) ^B	Itching/scratching	✓	✓
Self-feeding	Item 23 (Place forearms and/or hands on table) ^{A,B}	Eating independently	✓	✓
	Item 21 (Turning a ball over in hand) ^{A,B}	Picking up food when eating	✓	✓
	Item 16 (Extending elbow to touch a pencil) ^{A,B}	Picking food off a table without help	✓	✓
	Item 20 (Tearing a sheet of paper) ^A	Opening a wrapper/food packaging	✓	✓
Reaching, picking up and holding objects	Item 13 (Maintain a seated position) ^B	Eating while seated	✓	✓
	Item 17 (Picking up coins) ^{A,B}	Picking up and holding small items	✓	✓
	Item 9 (Sitting on the floor) ^{A,B}	Holding objects in a seated position	✓	✓
	Item 10 (Leaning towards a ball) ^{A,B}	Reaching an object	✓	✓
	Item 27 (Touching the floor while standing) ^{A,B}	Touching the floor to pick up something	✓	✓
	Item 32 (Squatting) ^{A,B}	Picking something up from the floor	✓	✓
Physical activity	Item 28 (Walking on heels) ^{A,B}	Walking	✓	✓
	Item 30 (Running) ^{A,B}	Exercising	✓	✓
	Item 31 (Hopping) ^{A,B}	Exercising/playing sport/hopping	✓	✓
	Item 29 (Walking on a line) ^B	Walking	✓	✓
	Item 26 (Standing on one foot) ^B	Taking a step/walking	✓	✓
Writing and technology use	Item 22 (Pointing at drawings) ^{A,B}	Using a phone or other device/touch-screen device	✓	✓
	Item 18 (Going around the edge of a CD) ^{A,B}	Using a touchscreen device	✓	✓
	Item 19 (Pick up pencil and draw loops) ^{A,B}	Writing/drawing with a pen	✓	✓
	Item 20 (Tearing a sheet of paper) ^B	Using your hands to tear a piece of paper	✓	✓

Table 3 (continued)

ADL domain	MFM32 item	Most frequently reported daily activity	Reported in interviews	Reported in survey
Social contact/engagement	Item 14 (Raise the head from the chest) ^{A,B}	Having a conversation/engaging with others	✓	✓
	Item 1 (Turning head) ^{A,B}	Looking around the room	✓	✓
	Item 2 (Lifting head) ^B	Looking around the room	✓	✓
Toileting	Item 25 (Stand without support) ^B	Using a toilet independently	✓	✓
	Item 12 (Sitting down on a chair from standing) ^B	Using a toilet independently	✓	✓
	Item 24 (Standing up from sitting on chair) ^B	Standing from sitting on toilet	✓	✓
Performing work/school activities	Item 13 (Maintain a seated position) ^A	Doing work/schoolwork while seated	✓	✓

^A The item was most frequently associated with the ADL based on the qualitative interview data

^B The item was most frequently associated with the ADL based on the survey data

✓ The specific aspect of the ADL was reported in relation to the patient-friendly MFM32 item in the qualitative interviews and/or quantitative online survey

● The specific aspect of the ADL was not included as a response option in the quantitative online survey and was also not reported in the free-text response option by any respondents

ADL Activities of daily living; MFM32 32-item Motor Function Measure

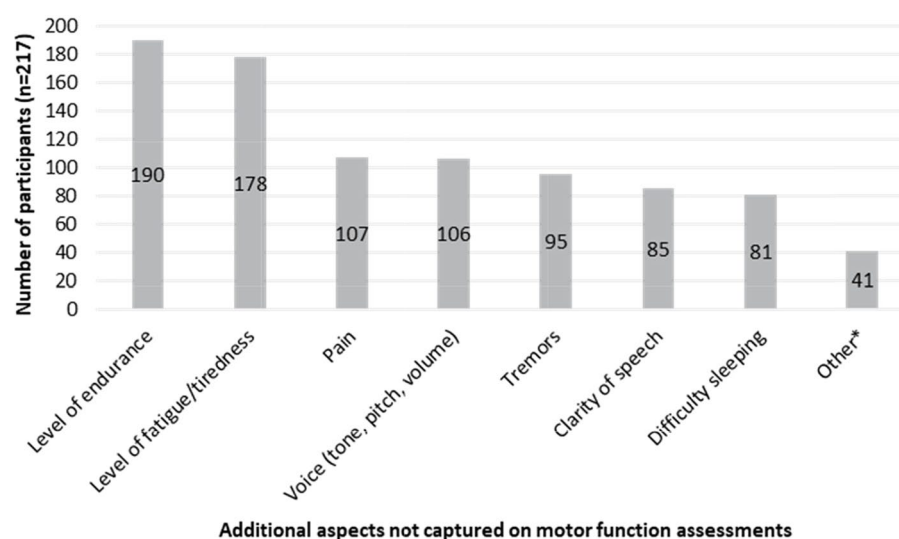


Fig. 4 Additional symptoms and impacts that are important to maintain/improve not captured on motor function assessments. *Breathing/respiratory function ($n = 12$), muscle strength ($n = 7$), chewing/coughing/swallowing ($n = 4$), mental/psychological problems ($n = 4$), elimination of contractures/scoliosis ($n = 3$), general physical safety ($n = 2$), ability to feed oneself/brush teeth/sign name ($n = 1$), comfort ($n = 1$), exercise assessment ($n = 1$), losing weight ($n = 1$), moving position ($n = 1$), poor blood circulation/cold feet ($n = 1$), sexual life ($n = 1$), social interactions ($n = 1$), reason unclear ($n = 1$)

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