

[Supplementary online-only material for Taylor PN, Wilkinson Hart IA, Khan MS, Slade-Sharman DEM: Correction of footdrop due to multiple sclerosis using the STIMuSTEP implanted dropped foot stimulator. *Int J MS Care*. 2016;18(5):239–247.]

Supplementary Appendix 1. Questionnaire: Use of the STIMuSTEP

[An equivalent questionnaire for the external FES device and electrodes was also used.]

Name: _____ Date: _____

Age: _____ Time since diagnosis: _____

Date of implantation: _____ Affected side: Right/Left

Unless otherwise indicated, please circle the appropriate answer.

1. On average, how often do you use the STIMuSTEP?
Every day 4–6 days a week 2 or 3 days a week Once a week
Less than once a week
2. On the days that you use the STIMuSTEP, on average how long do you wear it?
All day 9–12 hours 6–9 hours 3–6 hours Less than 3 hours
3. At times when you do not use your STIMuSTEP, what means of correcting your dropped foot do you use?
Nothing AFO (splint) Caliper Aircast splint
4. During which activities do you use the STIMuSTEP?
Every activity Outdoors only Indoors only
Longer walks only Only when tired For specific activities
5. Please indicate for which activities you would use the STIMuSTEP.
Walking in the house Shopping Social events
Work Exercising Physiotherapy Trips out / sight seeing
Other (*Please specify*)

6. How far do you regularly walk with the STIMuSTEP?

Less than 10 yards 10–100 yards 100–500 yards

500 yards to 1 mile More than 1 mile

7. What are your main reasons for using the STIMuSTEP?

Please **place a cross by any reasons** that apply to you and **circle the most important reason**.

I can walk further when using the STIMuSTEP.

I can walk faster when using the STIMuSTEP.

My walking takes less effort when using the STIMuSTEP.

I am less likely to trip and fall when using the STIMuSTEP.

I can walk on uneven ground when using the STIMuSTEP.

I feel more confident when using the STIMuSTEP.

I am more independent when using the STIMuSTEP.

Exercise with the STIMuSTEP keeps me fit.

I do not have to use an AFO splint or caliper when using the STIMuSTEP.

I do not have to use a walking stick, tripod, or walking frame when using the STIMuSTEP.

I do not need assistance to walk from a carer when using the STIMuSTEP.

My walking is better without the STIMuSTEP if I use the STIMuSTEP periodically.

Other please specify: _____

8. Do you need help to put the STIMuSTEP on each day? Yes No

9. How long does it take you to put on the equipment? _____ min
10. Have you felt any change in muscle stiffness (spasticity) since using the STIMuSTEP?

Increased No change Decreased

11. Which walking aid(s) did you use **before** using the STIMuSTEP?

Walking stick/tripod Wheelchair Walking frame Crutches

AFO splint/Caliper Assistance of one person

Which walking aid/s do you use **since** using the STIMuSTEP?

Walking stick/tripod Wheelchair Walking frame Crutches

AFO splint/Caliper Assistance of one person

12. Since using the STIMuSTEP has there been any change in the amount you use any of the walking aids you circled in question 11?

Walking aid (*please specify*)

..... increased no change decreased

..... increased no change decreased

..... increased no change decreased

13. Does the STIMuSTEP work at the correct time when you are walking?

Always Most of the time Sometimes Rarely Never

14. Does the STIMuSTEP ever work at inappropriate times (eg, while sitting)?

Never Rarely Sometimes Often Always

15. Do you adjust the STIMuSTEP settings yourself?

Always Usually Sometimes Occasionally Never

16. How often do the STIMuSTEP control settings require adjustment?

Every few minutes Every hour Every few hours
Occasionally Only when I put it on

17. How easy is it for **you** to adjust the settings?

Very easy Easy Fairly easy Fairly difficult
Difficult Very difficult

If you experience difficulty in adjusting the controls, please explain why. _____

18. Do you agree with the following statements? Please circle the appropriate answer.

(a) I am glad that I have the STIMuSTEP

Strongly agree Agree Indifferent Disagree Strongly disagree

(b) I would recommend STIMuSTEP to another person

Strongly agree Agree Indifferent Disagree Strongly disagree

(c) I feel more confident when I use STIMuSTEP

Strongly agree Agree Indifferent Disagree Strongly disagree

(d) I am more independent since I received the STIMuSTEP

Strongly agree Agree Indifferent Disagree Strongly disagree

(e) STIMuSTEP has improved my quality of life

Strongly agree Agree Indifferent Disagree Strongly disagree

(f) STIMuSTEP has a good cosmetic appearance when worn

Strongly agree Agree Indifferent Disagree Strongly disagree

(g) The sensation from the implanted electrodes is comfortable

Strongly agree Agree Indifferent Disagree Strongly disagree

Very slowly Not at all

Thank you for taking the time to complete this questionnaire. Please add any further comments you may have below.