

Multimedia Appendix 1

ReX Use Questionnaire:

% of subjects selecting the specific answer is shown in brackets.

Training:

1. Was the on-screen training tutorial, including cassette exchange, pill intake instructions, device recharging and connectivity, clear?
Very clear (66%)
Clear (31%)
Not so clear (3%)
Very unclear (0)
2. Following the on-screen tutorial, were you able to use the ReX device without the trainer's help?
Yes (81%)
Not sure (12%)
No (7%)

Reminders:

3. If you missed a pill, the reminder escalation concept was activated. Did you find the following reminders useful? (multiple choices)
 - *Visual reminder - device blinking (8%)*
 - *Acoustic reminder - device beeping (54%)*
 - *Cell phone text messages (34%)*
 - *Phone call from the trainer (48%)*
 - *I didn't need reminders (18%)*
4. Which reminders irritated you? (multiple choices)
 - *Visual reminder - device blinking (0%)*
 - *Acoustic reminder - device beeping (5%)*
 - *Cell phone text messages (0%)*
 - *Phone call from the trainer (8%)*
 - *None of the above (90%)*

Safety:

5. Did you encounter any of the following safety problems during the study?
 - *Pills overdose - more than one pill dispensed at a time?*
Yes (0%)
No (100%)

- Pill falling down during sucking and therefore did not reach your mouth.
Yes (2%)
No (98%)
- Pill malformation or broken.
Yes (0%)
No (100%)

Functionality:

6. Did you encounter any technical problems with the ReX device?
Yes (19%)
No (81%)

Usability:

7. Please compare the two methods you used for pill intake, ReX device or current practice (standard package)?
 - Which method was more effective in reminding you to take your dose?
ReX device (89%)
Current practice (*I don't need reminders*) (11%)
 - Which method was more effective in preventing errors?
ReX device (94%)
Current practice (6%)
 - If you had to document medication intake and side effects in a diary during treatment, which method would you prefer?
ReX device (82%)
Current practice (*documenting long hand*) (18%)
8. When carrying the ReX with you, was the ReX a comfortable size/weight?
Yes (57%)
No (43%)
9. Having completed the study, would you feel comfortable using ReX?
Yes (89%)
No (11%)
10. How do you rate overall ease of use?
Easy (87%)
Moderate (13%)
Difficult (0%)