

"Moba-Roku": use of a mobile recording system for tracking treatment infusions

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Introduction

In 1983, Japan approved self-administered infusions in the home setting. Patients who home-infuse are required to keep a record of all infusions administered. Paper-based means were most commonly utilized for recording until September 2010 when "Moba-Roku," a mobile recording system for infusions, launched. This new recording system was developed to serve as a communication tool between healthcare providers and people with hemophilia (PWH)/parents regarding home-infusion treatment.

Objective

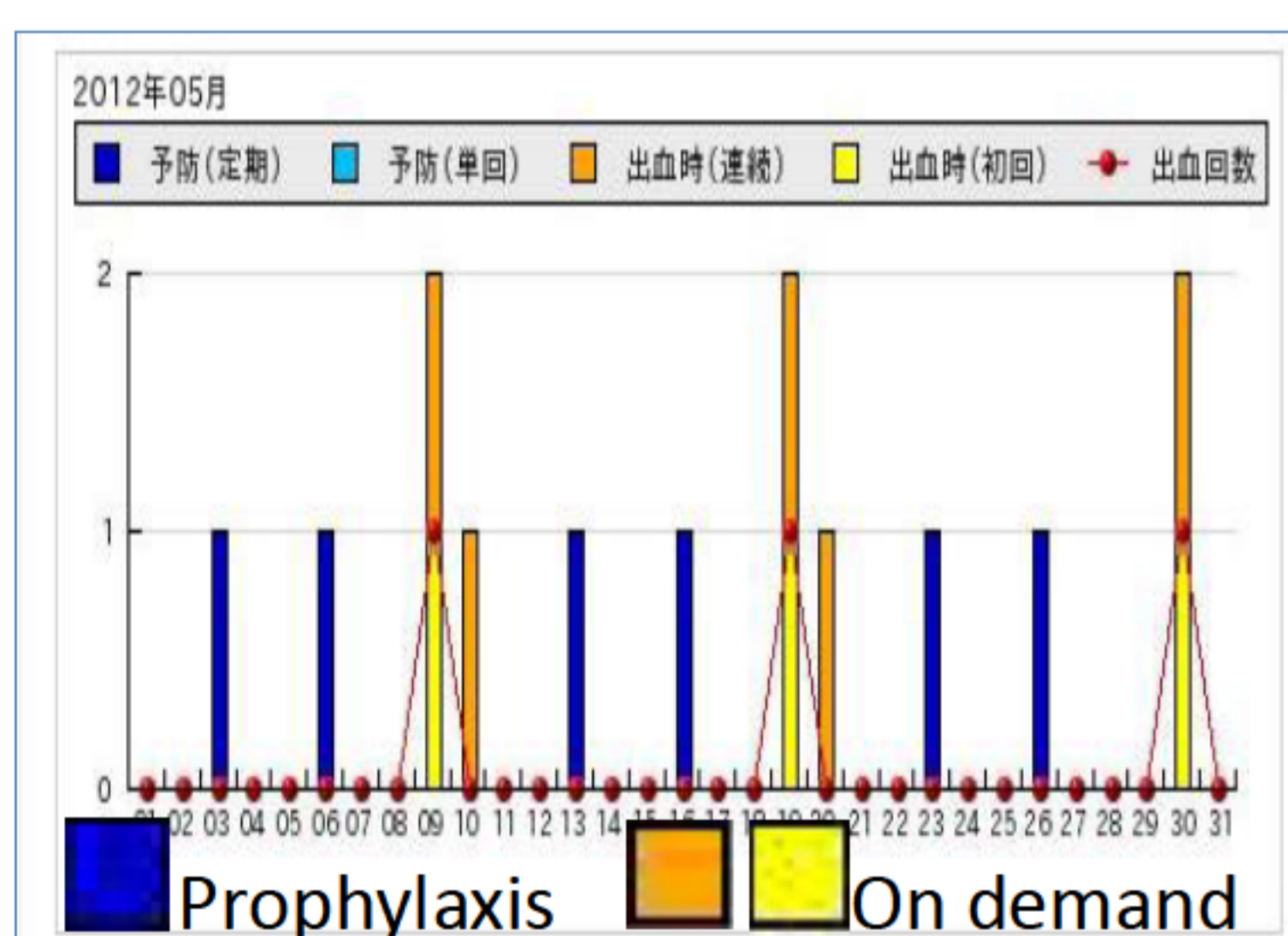
Our objective was to assess whether the mobile recording system for home-infusions, "Moba-Roku", serves to facilitate communication between healthcare providers and PWH/parents while improving their adherence to home-infusion treatment.

Methods

Multiple questionnaire surveys on the use of Moba-Roku were conducted among Moba-Roku users from August to September 2013. Questionnaire mails were sent to about 300 users and the replies were received from about 20%.

Moba-Roku Data summary sheet (sample)

<Infusion record>

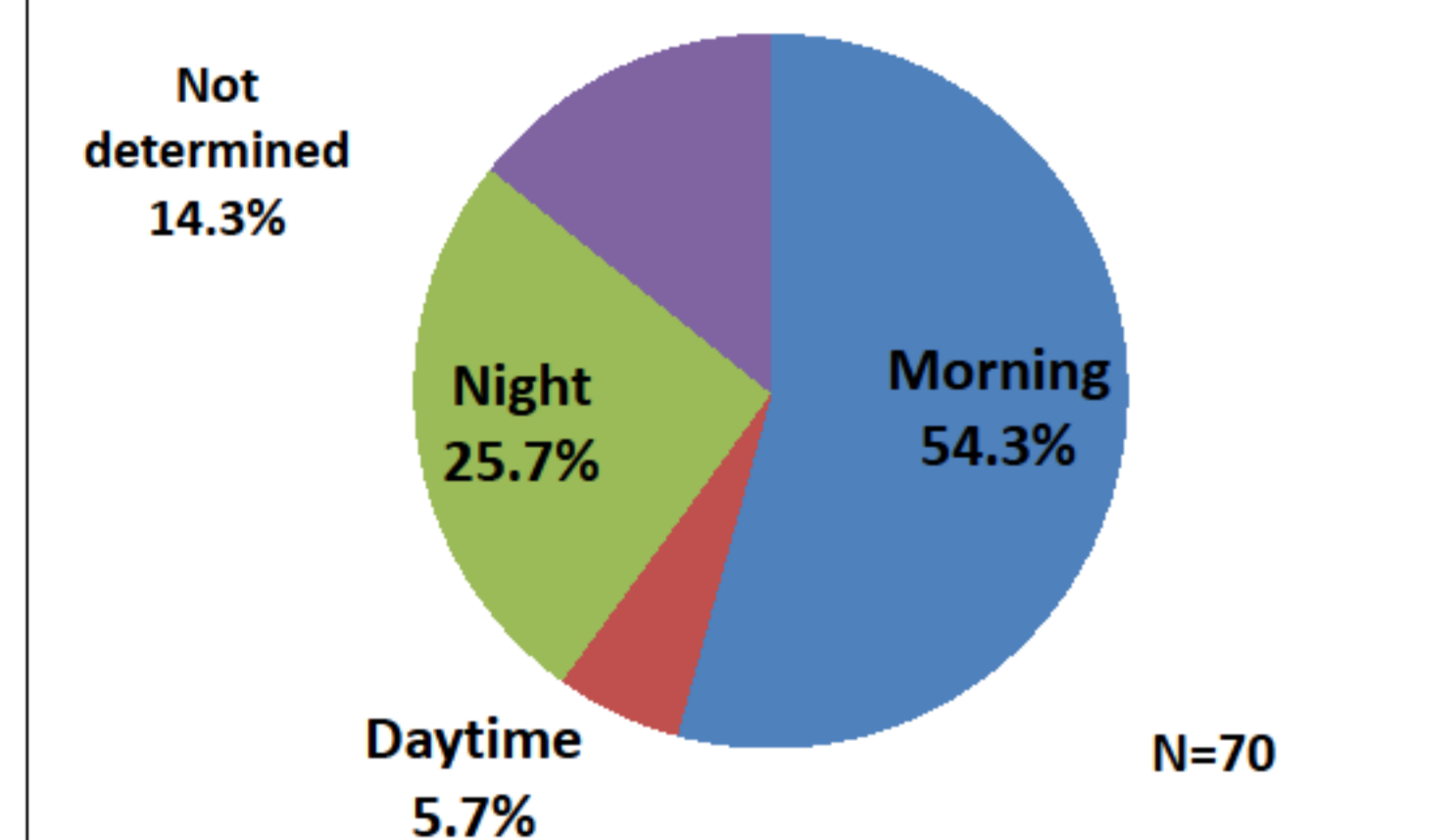


<Bleeding records>

Bleeding sites	Number of bleeds
Joint bleeding Right elbow	3
Joint bleeding Right knee	2
Joint bleeding Left ankle	2
Joint bleeding Left elbow	8
Joint bleeding Left knee	1
Muscle bleeding Right Calf	2

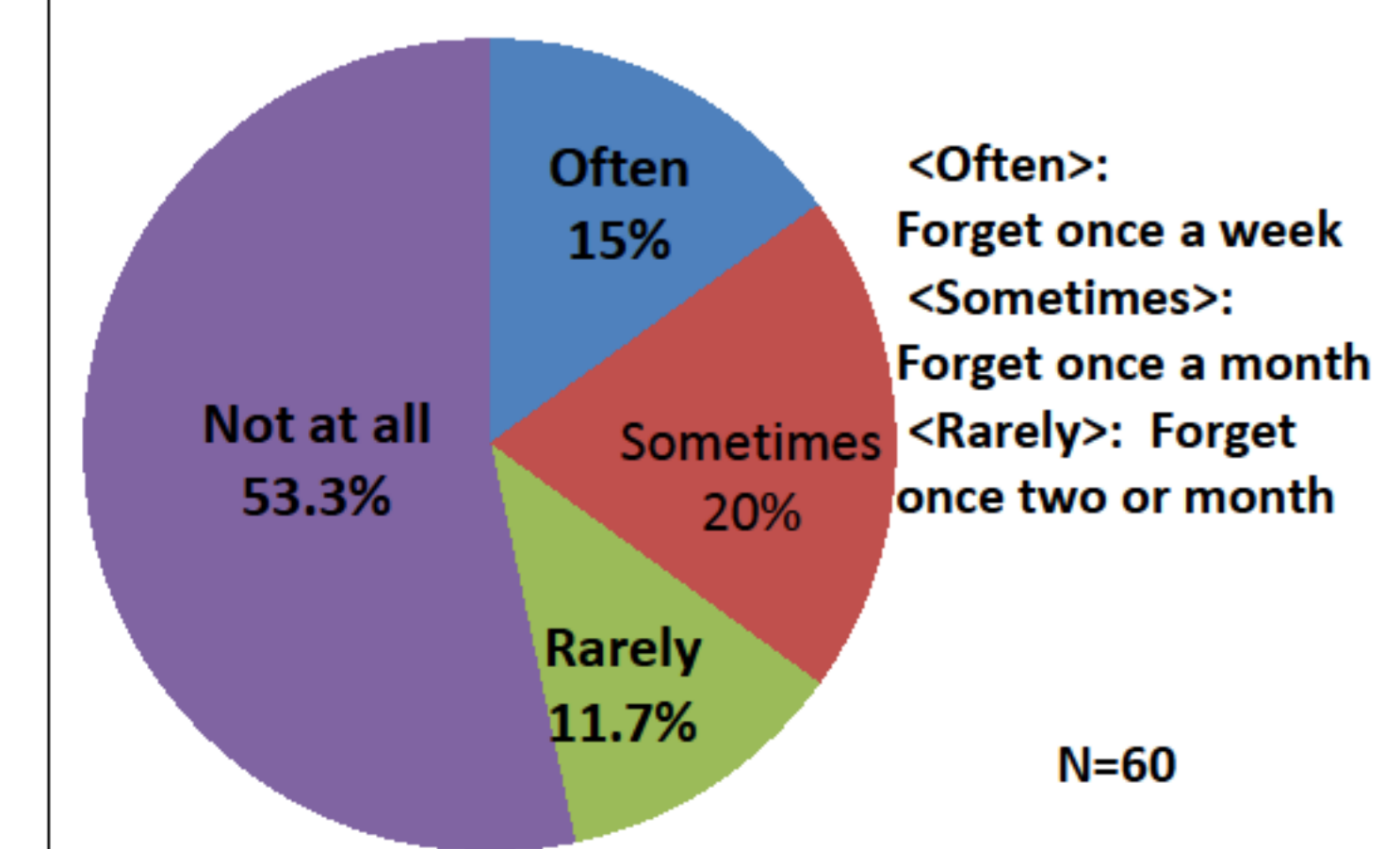
Results

Q1. When do you perform periodic infusion?



Most subjects who use "Moba-Roku" received prophylaxis treatment. Sixty percent (42/70) of subjects performed infusion at morning or daytime, whereas 25.7%(18/70) performed infusion at "night" and 14.3%(10/70) didn't have fixed time for infusion.

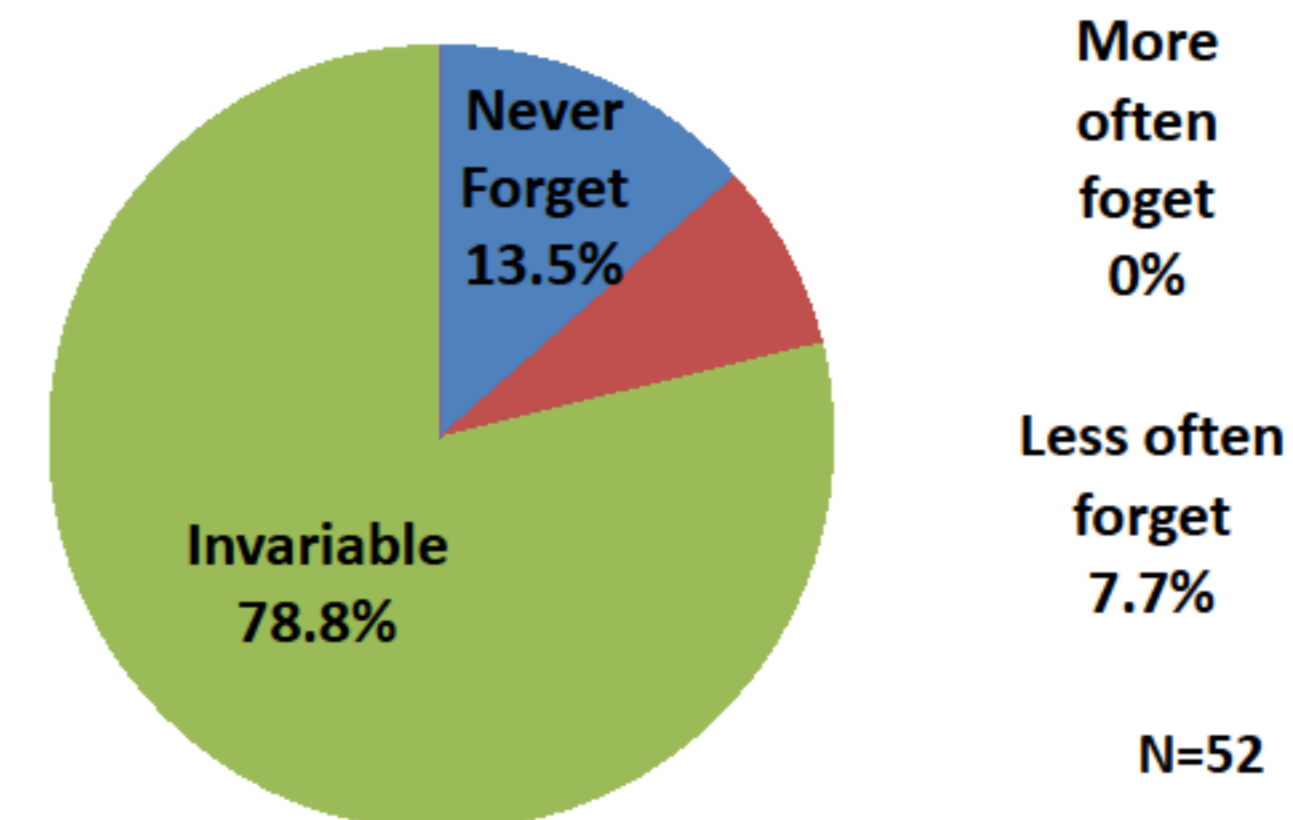
Q2. Do you forget to perform periodic infusion?



Although 53.3%(32/60) didn't forget to perform infusions, 15%(9/60) of subjects forget to perform infusion once a week, 46.7%(28/60) subjects forget to perform infusion (Often:15%(9/60), Sometimes:20%(12/60) and Rarely:11.7%(7/60))

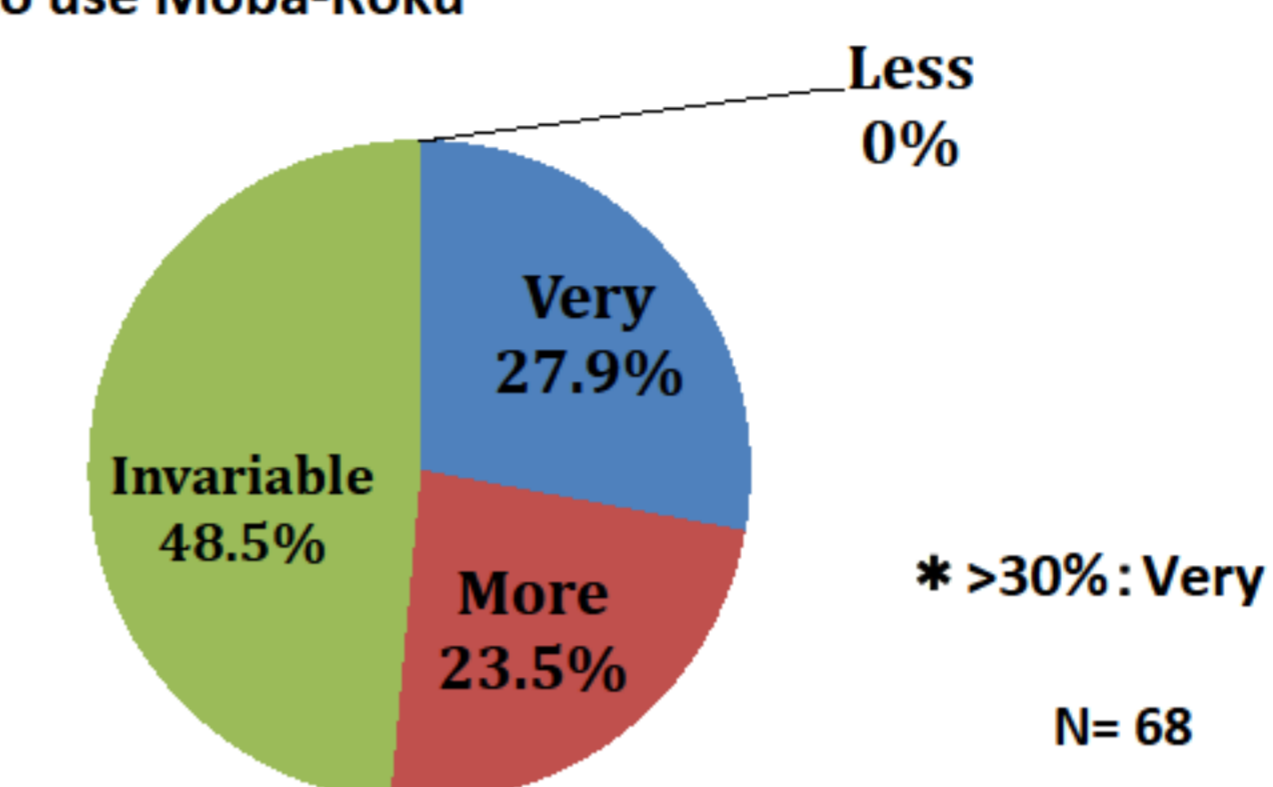
Results- cont.

Q3. Did Moba-Roku make you less prone to forget about administering the infusions?



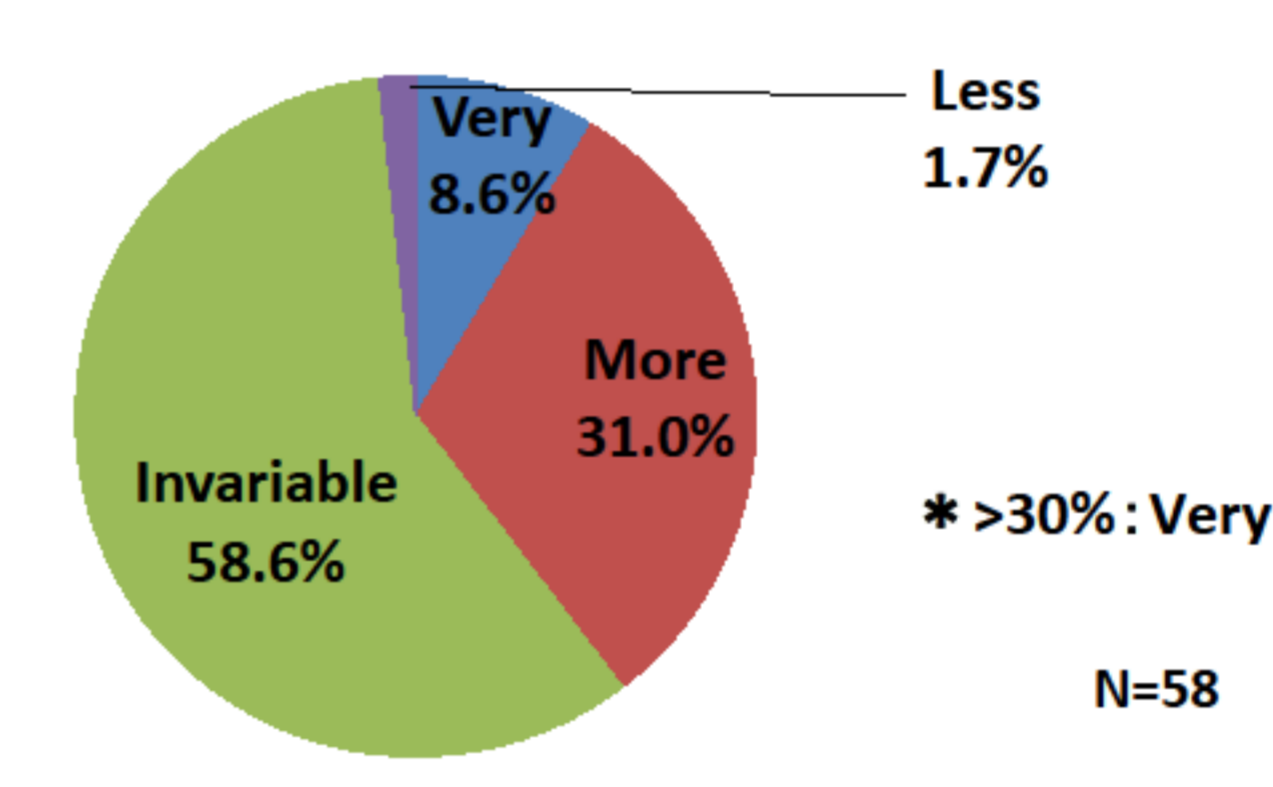
Among the users who reported that the use of Moba-roku made them less prone to forget about administering the infusions, 13.5% (7/52)responded that they now "never forget and 7.7%(4/52) responded that they "less often forget"

Q4. Do you keep your infusion record after starting to use Moba-Roku



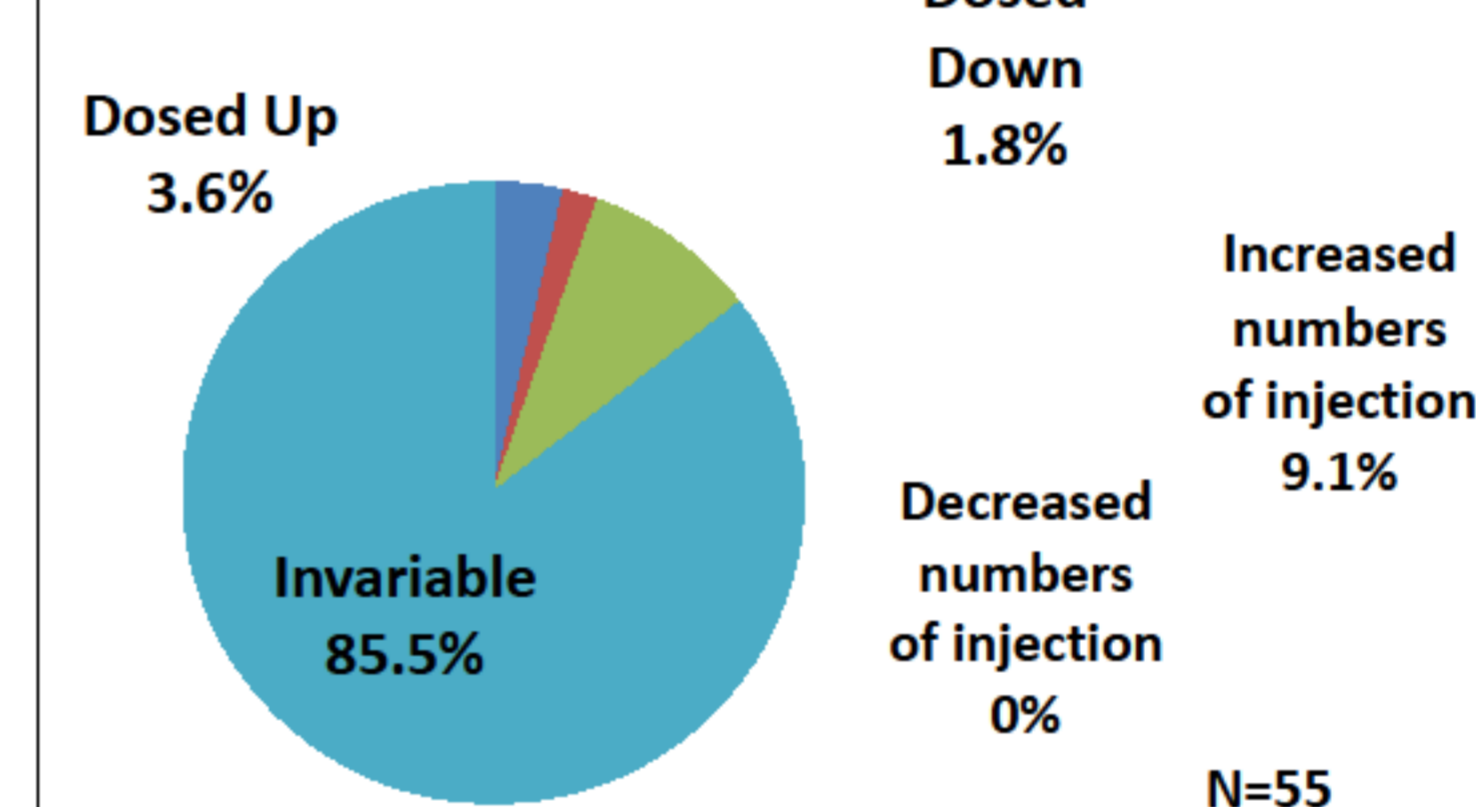
Regarding the recording of infusions after starting to use Moba-Roku, 27.9%(19/68) responded that they "regularly record," and 13.5%(16/68)responded that they "record more often than before."

Q5. How often do you review your infusion record compared to using Moba-Roku?



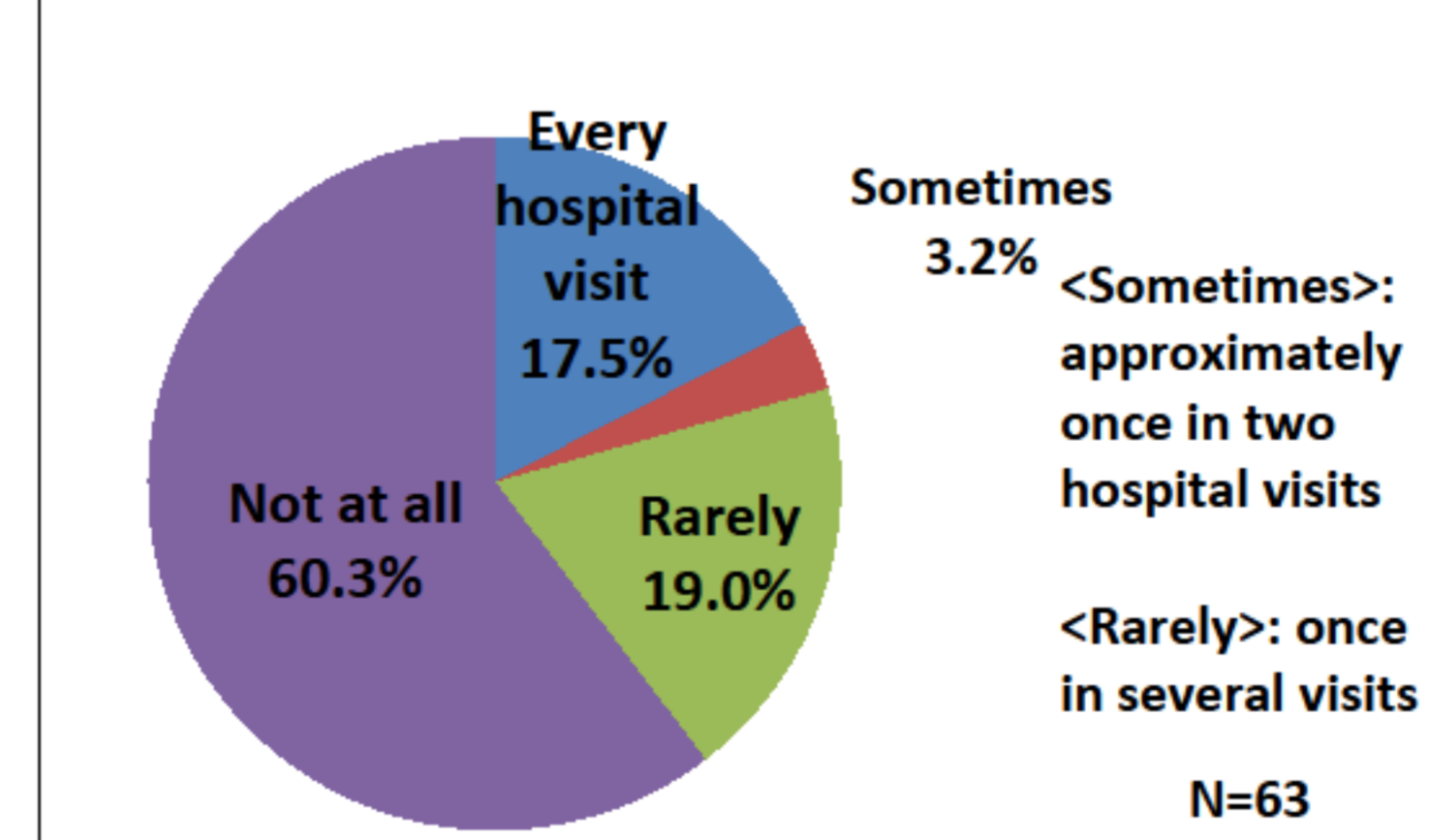
When asked how often they review their infusion record compared to prior use of Moba-Roku, 8.6% (5/58)responded "markedly more often" and 31%(18/58) responded "more often than before."

Q6. Did you change periodic infusion after using Moba-Roku data?



Among respondents who changed periodic infusion in using Moba-Roku data: 3.6% (2/55)responded that they changed periodic infusion "Dosed up", 1.8%(1/55) responded that they changed periodic infusion "Dosed down" and 9.1%(5/55) responded that they changed periodic infusion "Increased numbers of injection."

Q7. Do you use your data recorded in Moba-Roku in communicating with physicians and nurses?



Among respondents who used data recorded in Moba-Roku in communicating with physicians and nurses: 17.5%(11/63) responded that they used data on Moba-Roku in "every hospital visit" 3.2%(2/63) responded that they used data on Moba-Roku "approximately once in two hospital visits" and19%(12/63) responded that they used data on Moba-Roku "once in several hospital visits."

Conclusions

The survey demonstrated that the use of Moba-Roku by patients not only increased the frequency of utilizing and reviewing their infusion records, but also enabled communication between the patient and their healthcare professionals, indicating that Moba-Roku may be a useful tool for improving patients' adherence to home-infusion and prophylaxis.



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If you have any additional questions, please feel free to contact Baxter Bioscience Medical Information at medinfo@baxter.com.

Conflicts of interest:

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