



Review

Review of hot flash diaries[☆]Thomas Guttuso Jr.^{a,*}, Will J. DiGrazio^b, Sireesha Y. Reddy^b^a University at Buffalo, 3435 Main St., Buffalo, NY 14214, USA^b University of Rochester, 601 Elmwood Ave., Rochester, NY 14642, USA

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ABSTRACT

Currently, there is only 1 published hot flash diary. This diary rates hot flash severity according to 4 categories: mild, moderate, severe, and very severe. The descriptions of these 4 severity categories are located on a separate form from the main data form. For each 24-h period, subjects record the number of hot flashes experienced for each of the 4 severity categories either by recollection or from a separate data source on which hot flashes have been tallied. This diary has been validated but does not conform to the FDA and EMEA guidance for industry. After we observed a high percentage of subjects reporting confusion when using this 4-category diary, we constructed and used a hot flash diary containing 3 severity categories that offered real-time recording of hot flashes, contained all severity definitions on the principle data form and also conformed to the FDA and EMEA guidance for industry. We compare these 2 diaries here and provide a sample of the 3-category diary, which has not been formally validated but is considered valid by the FDA and EMEA in support of drug approval. Either diary is acceptable for use in clinical trials.

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Contents

1. Introduction.....	213
2. Methods.....	214
3. Discussion.....	214
4. Conclusion.....	215
Contributors.....	215
Competing interests.....	215
Funding.....	215
Provenance and peer review.....	215
References.....	215

1. Introduction

Hot flash clinical trials typically utilize a paper diary in order to assess subjects' hot flash frequency and severity. The most commonly used diary in academic-initiated hot flash clinical trials assesses 4-categories of hot flash severity (mild, moderate, severe, and very severe), the definitions of which were compiled from

subjects' perceptions [1]. For industry-initiated hot flash trials, the Food and Drug Administration (FDA) and the European Medicines Agency (EMA) guidelines require hot flash severity to be assessed using 3-categories (mild, moderate, and severe), the definitions of which were compiled from an FDA advisory committee [2].

After we completed an initial hot flash clinical trial that used the 4-category diary [3], the Principal Investigator for this study noted that many subjects (approximately 50% from her recollection) reported confusion regarding the hot flash severity definitions included with this diary. This prompted us to develop and use a 3-category diary that conformed to FDA and EMA guidelines. We report here on our development and use of this 3-category hot flash diary and compare its features directly with those of the 4-category diary.

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