

# Study limitations



## Investigation project

In the development of the study the following limitations were presented:

1. Lack of more data in the dataset. This represents the largest limitation in the study: the greater the amount of data, the greater the accuracy of the conclusions obtained. If the data had been taken with a frequency of less than 7 days then the dataset would be larger.
2. Lack of interest of some users to participate continuously in the study. It has been detected that several users used the eBurnout application the first few days and then stopped using it, which has made it very difficult to detect hidden patterns in the data analysis.
3. Limit Fitbit wristbands provided. If more wristbands had been provided then users would have participated more. It has been shown in the analyses that these users have had more motivation to participate than those who did not have a wristband.
4. Lack of mechanism to check whether users really tell the truth in the free text field or not, what has caused that there were users with very negative opinions and normal physiological values. To solve this situation, several sentiment analysis algorithms have been applied and these data have been compared with the physiological values.
5. Period of study. The time chosen for the study will surely prevent detecting more cases of burnout than those that actually exist because it coincides with the holiday period of medical personnel
6. The support provided to the Son Llàtzer hospital via remote service has been a limitation in comparison to the in-person support provided at the Infanta Sofia hospital. This has also had an impact on connectivity and data collection problems.
7. Bibliographic shortage when finding information about Google Cloud Platform and its tools because they are very recent. To resolve this situation, several Google technicians were contacted, needing to wait up to several weeks to receive an appointment.
8. Factors such as polysemy or ambiguity in words slow down the search. This is because the results are arranged according to the usual methods and a lot of time is lost in discarding non-relevant information.

In Madrid, on September 28,2018

**Jesus Garcia**

*Engineer and researcher of eBurnout*