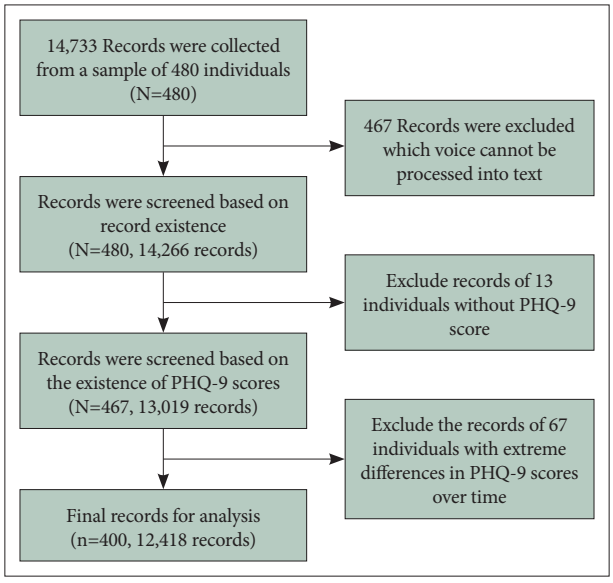

Supplementary Figure 1. Flowchart of data inclusion and final sample. A total of 14,733 records were collected from 480 individuals. After excluding 467 records that could not be processed, 14,266 remained. The records were further screened based on the availability of Patient Health Questionnaire-9 (PHQ-9) scores, excluding 13 individuals without PHQ-9 data and 67 individuals with extreme differences in PHQ-9 scores over time. The final sample included 400 individuals, and 12,418 records were analyzed.