

Background

- In 2006, dementiaguide.com launched SymptomGuide®, an online web-based tool that allowed caregivers/users to identify and track dementia-related symptoms that were most important to them.
- In 2018, we transitioned from the web to a mobile application.
- From a text-heavy interface (**Figure 1**), we designed a more intuitive mobile health tool (**Figure 2**).
- Here, our objectives were to compare demographic characteristics and patterns of symptom tracking in SymptomGuide® **Web** and early **App** users.

Figure 1. SymptomGuide® **Web** interface.

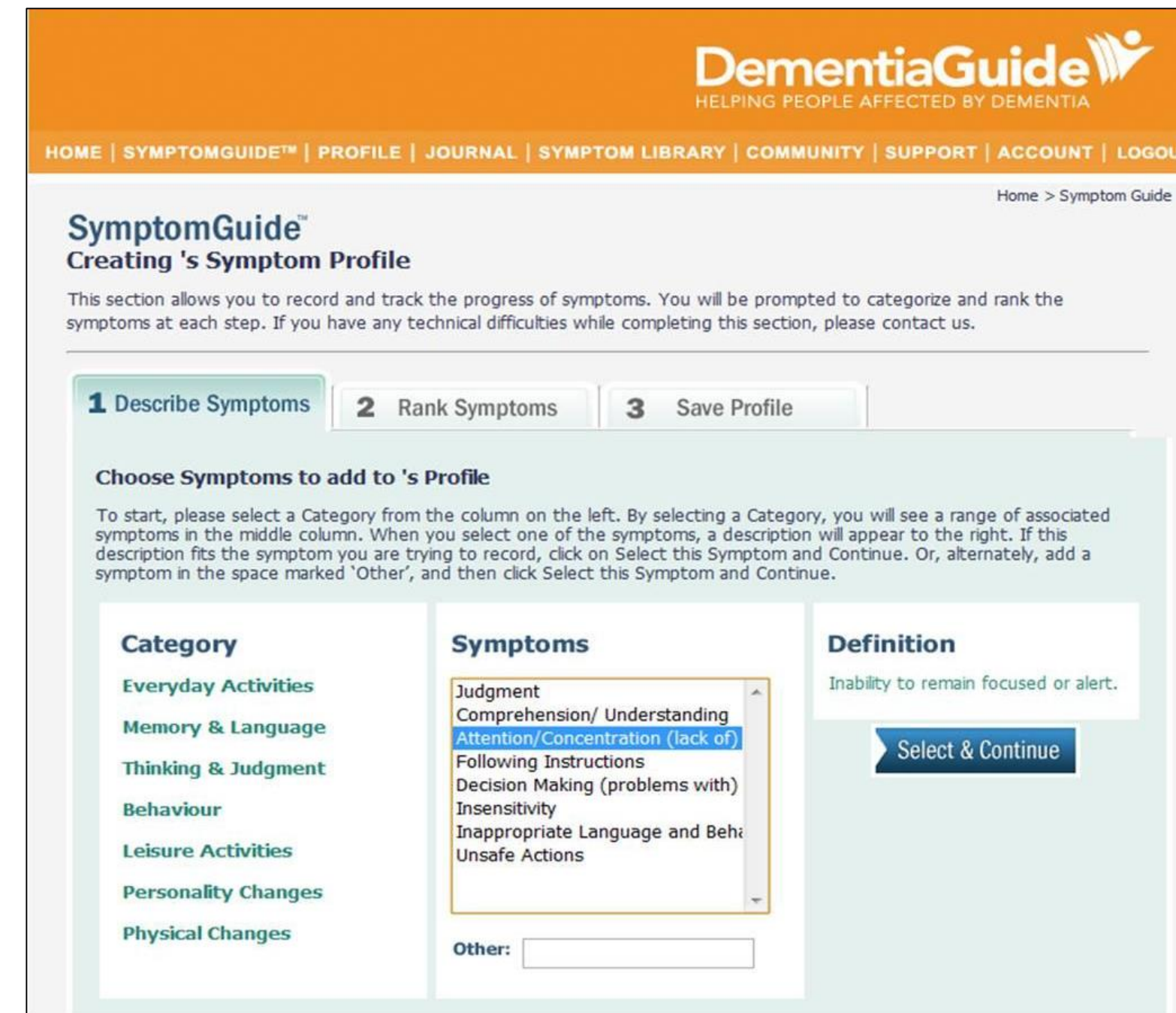
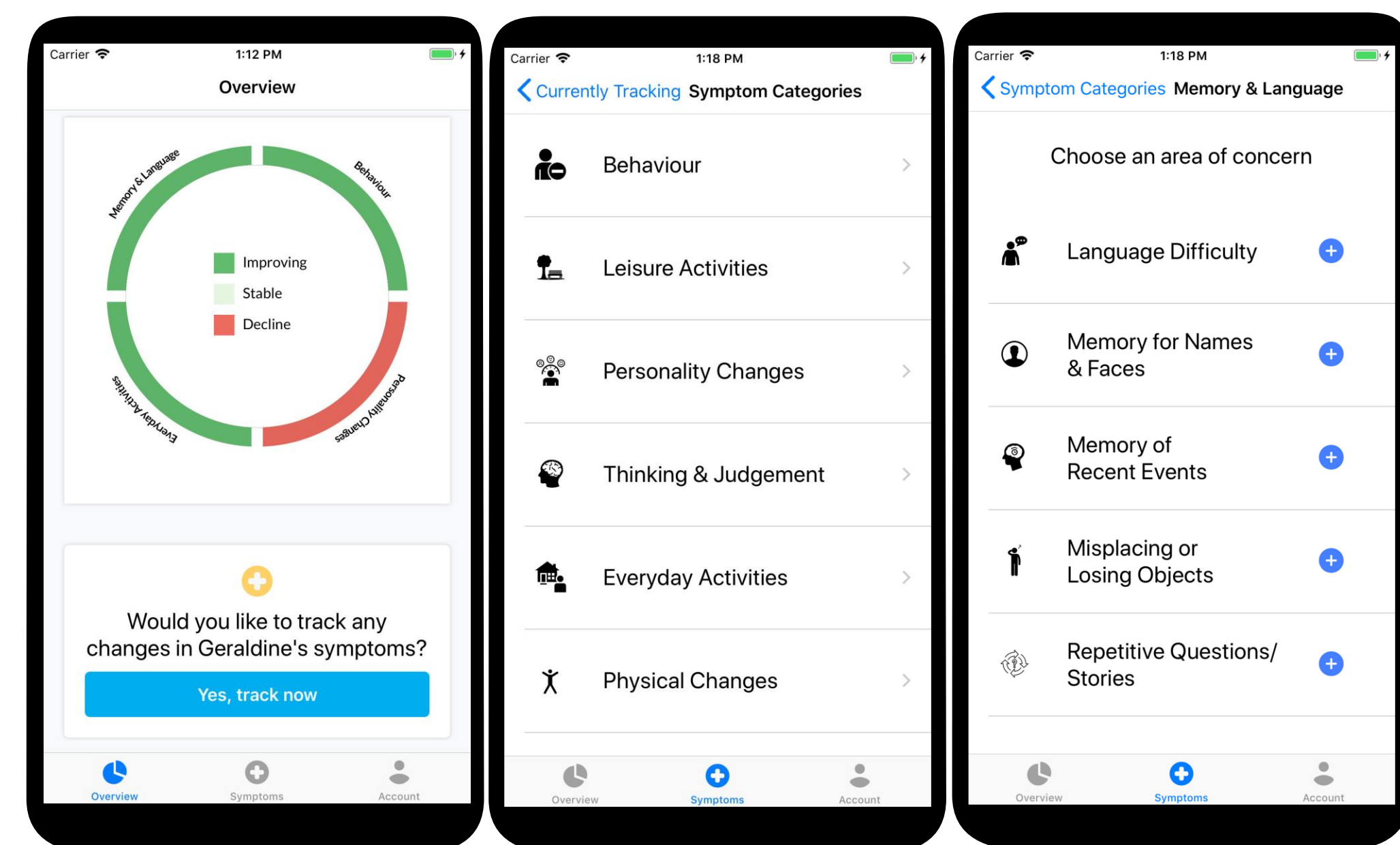


Figure 2. SymptomGuide® Dementia **App** interface.



Try SymptomGuide® Dementia on iOS or Android:



Methods

- Data were exported from the SymptomGuide® database on **2019-06-20** (updated from 2019-03-26 in the abstract).
- Differences between continuous variables were tested by independent samples t-test or Wilcoxon rank-sum test.
- Differences between categorical variables were tested by Pearson's chi-squared test or Fisher's exact test.
- Statistical significance was set at $p < 0.05$, with Bonferroni corrections for multiple comparisons.

Results

Figure 3. SymptomGuide® platform growth.

App users (n=568) were more likely (70%) to create symptom profiles than **Web** users (n=11291; 32%).

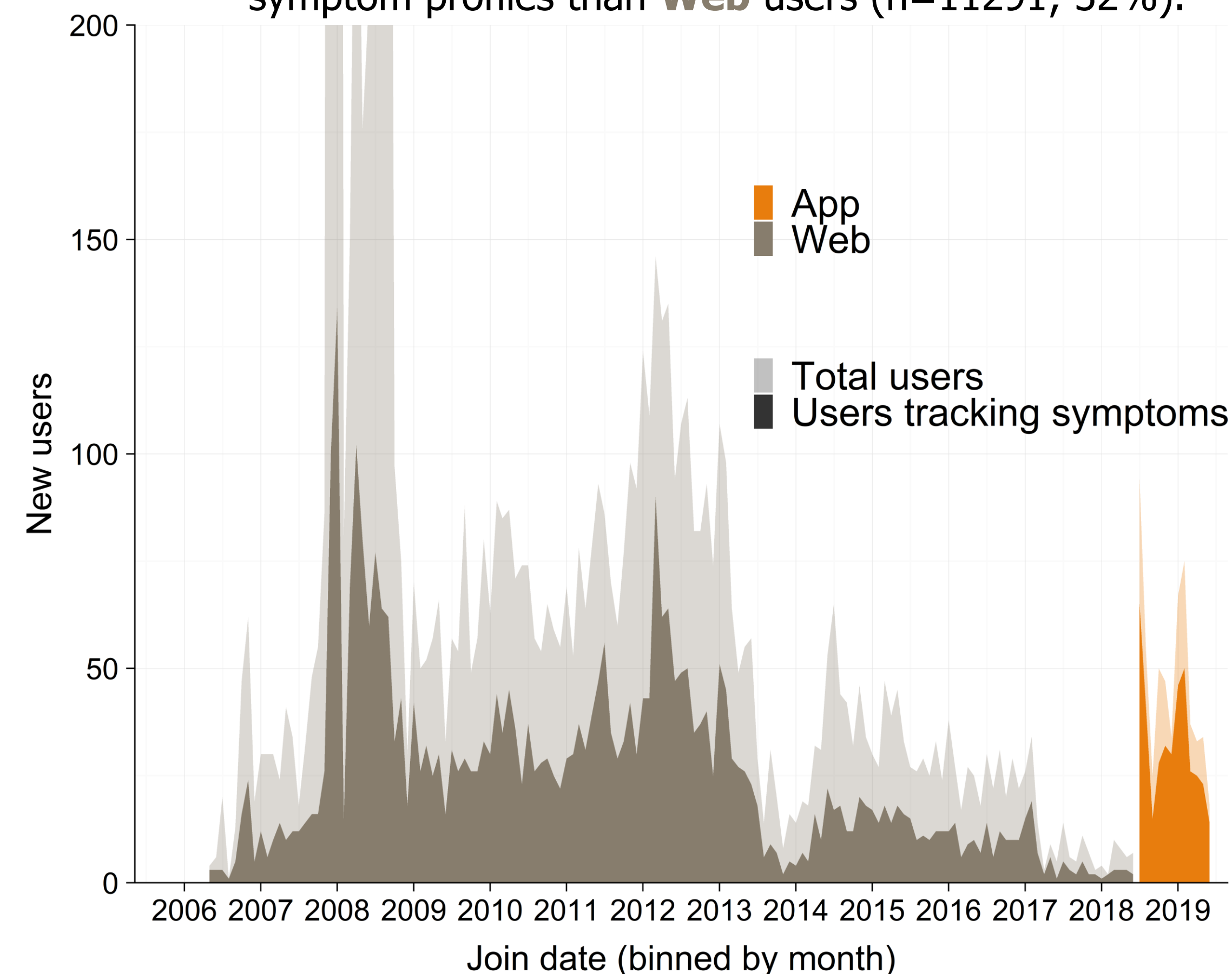


Figure 4. Demographics and characteristics of **App** and **Web** users.

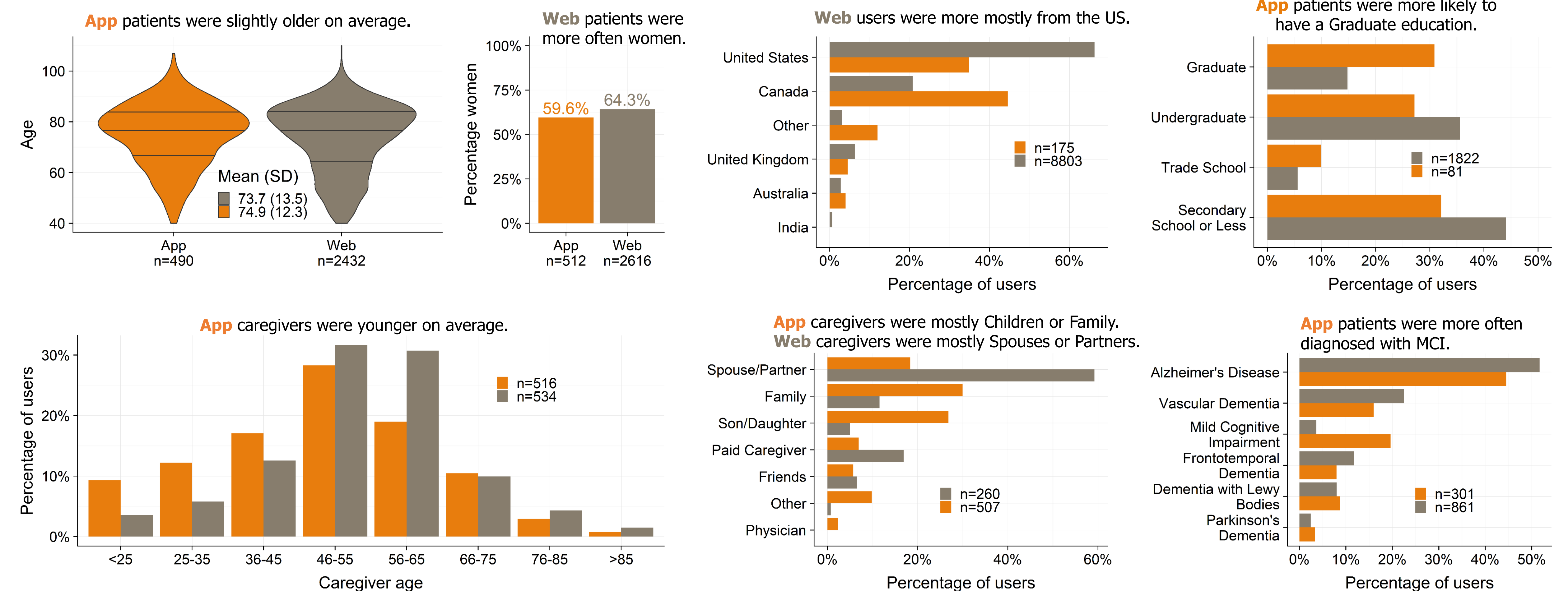
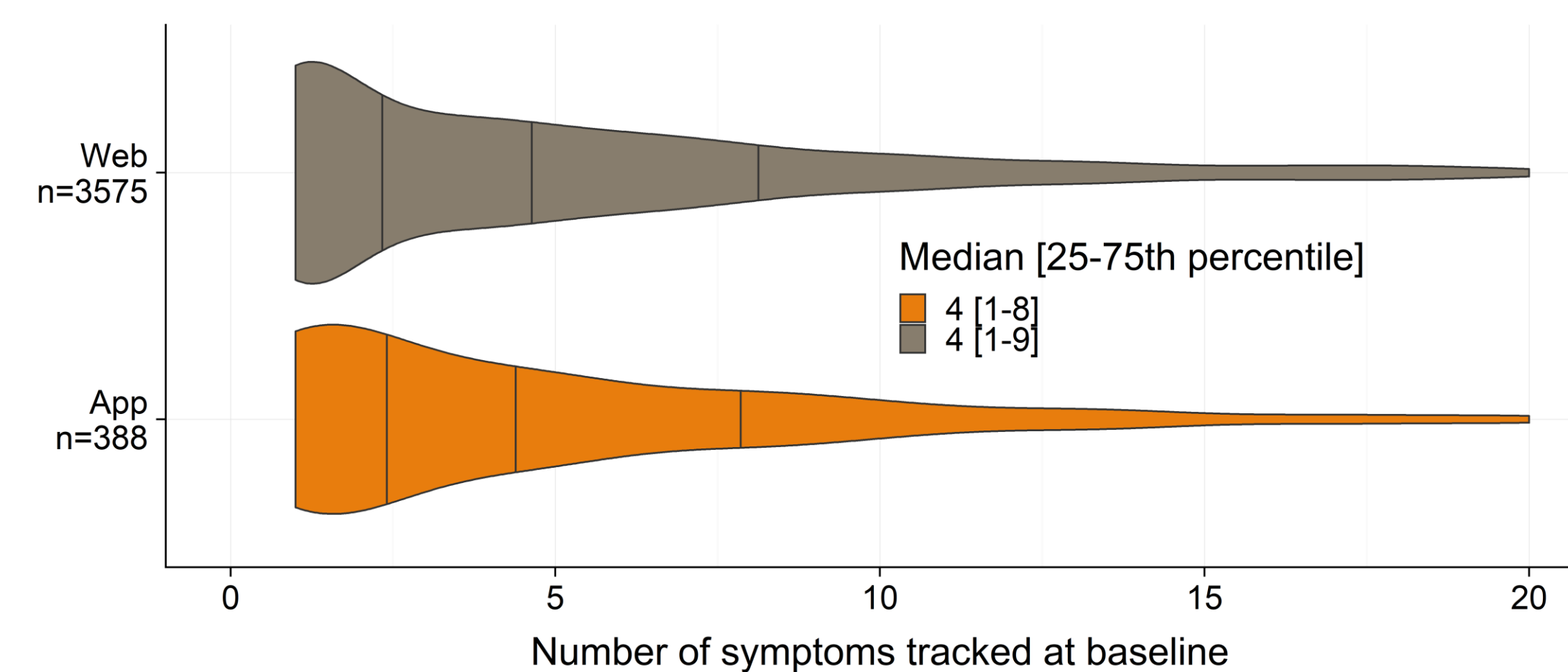


Figure 5. Baseline and longitudinal symptom tracking.



App users tracked longitudinally more often, and at later times post-baseline.

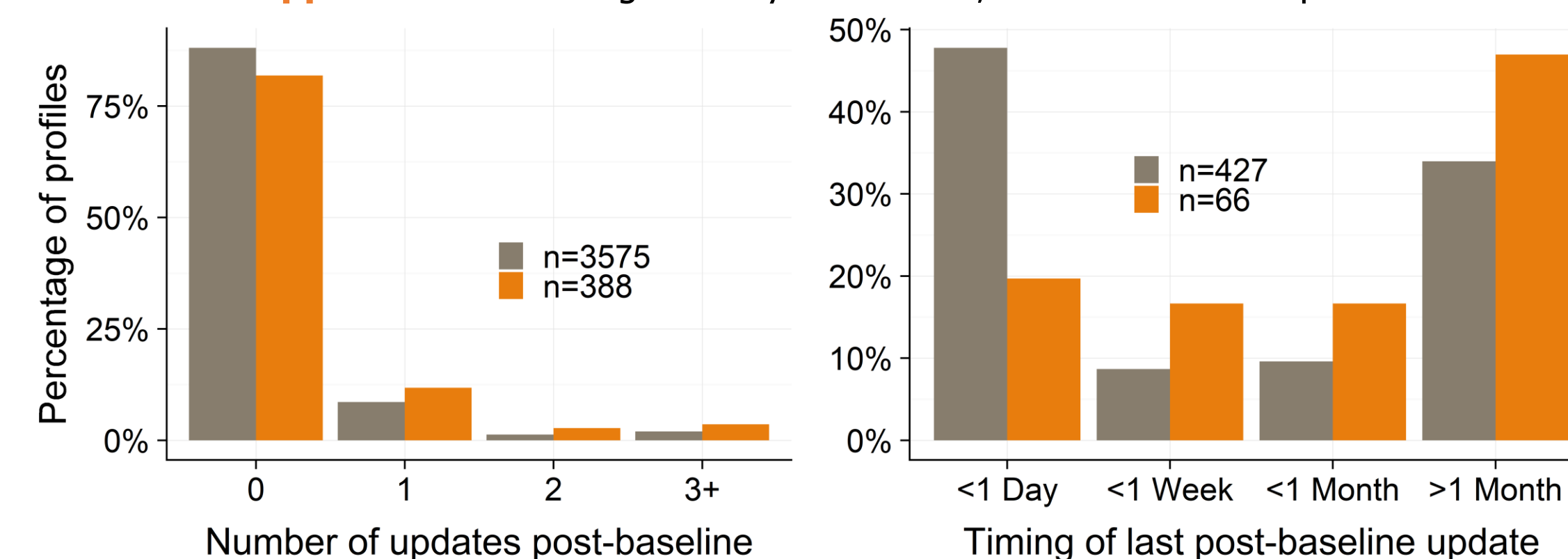
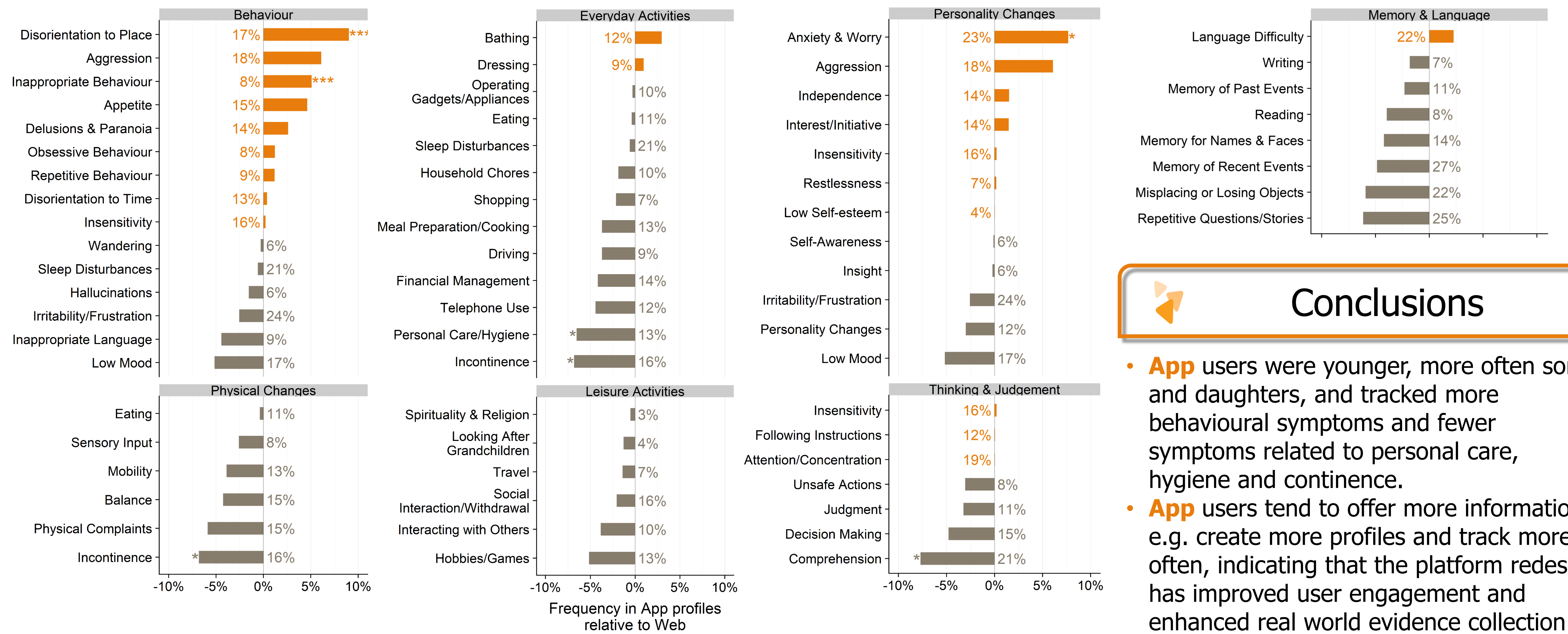


Figure 6. Differential symptom tracking frequency by category.



Conclusions

- App** users were younger, more often sons and daughters, and tracked more behavioural symptoms and fewer symptoms related to personal care, hygiene and continence.
- App** users tend to offer more information, e.g. create more profiles and track more often, indicating that the platform redesign has improved user engagement and enhanced real world evidence collection.