

# Incidence, prevalence and treatment pattern of Parkinson disease from Taipei Medical University: an integration of open-software analytic tools

Open-source analytical tools developed by the OHDSI community enable the determination and analysis of incidence and prevalence rates of Parkinson's disease

**Background:** We aim to use the open-source R package, IncidencePrevalence and TreatmentPatterns, to assess the incidence and prevalence of Parkinson disease, as well as explore treatment patterns of anti-Parkinson drugs.

**Method:** Patients who have the condition occurrence of Parkinson and receive medication for Parkinson (Amantadine, Benztropine, Bromocriptine, Cabergoline, Levodopa, Entacapone, Opicapone, Pramipexole, Rasagiline, Rotigotine, Safinamide).

## Results

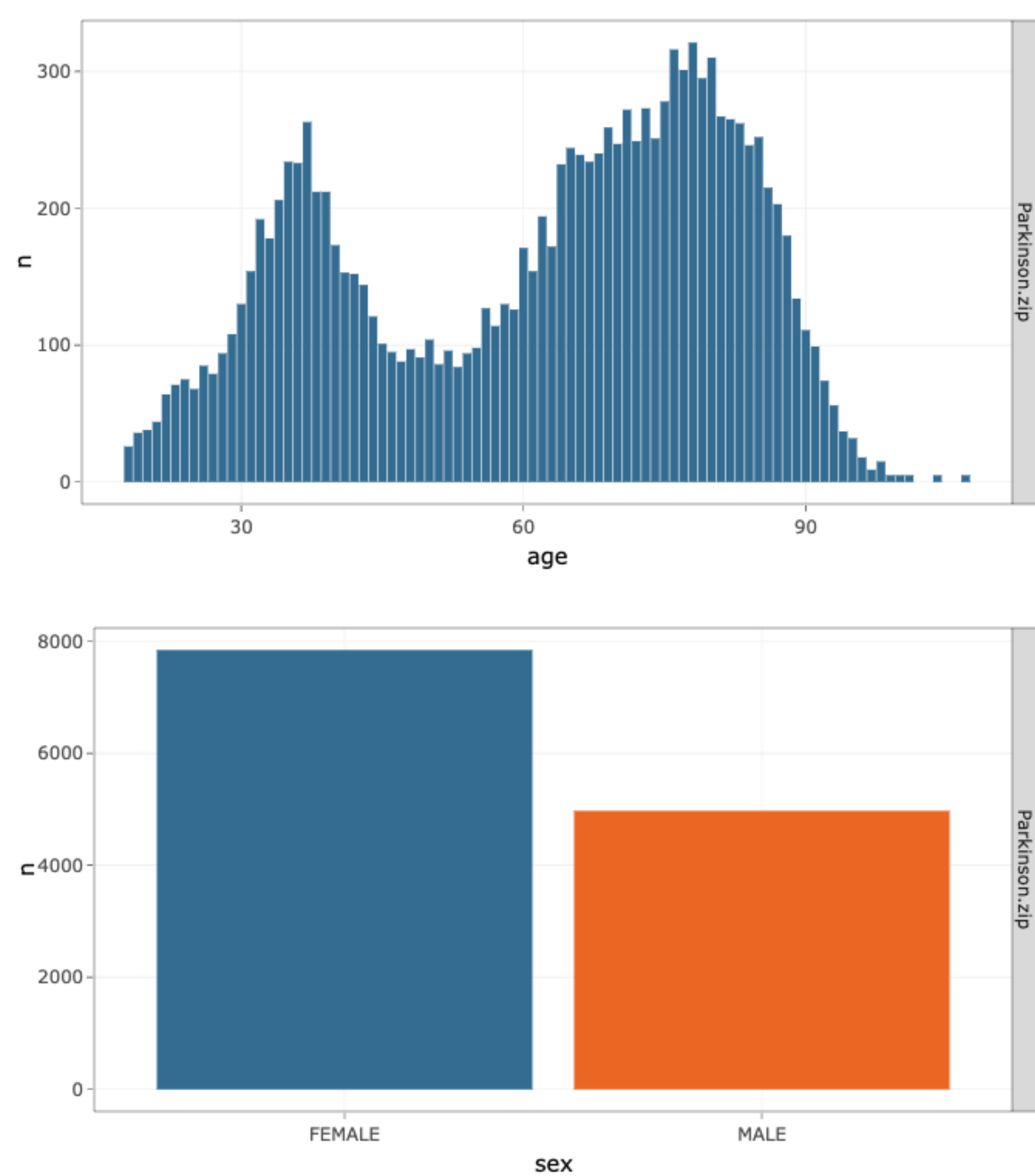


Figure 1. Age and gender distribution

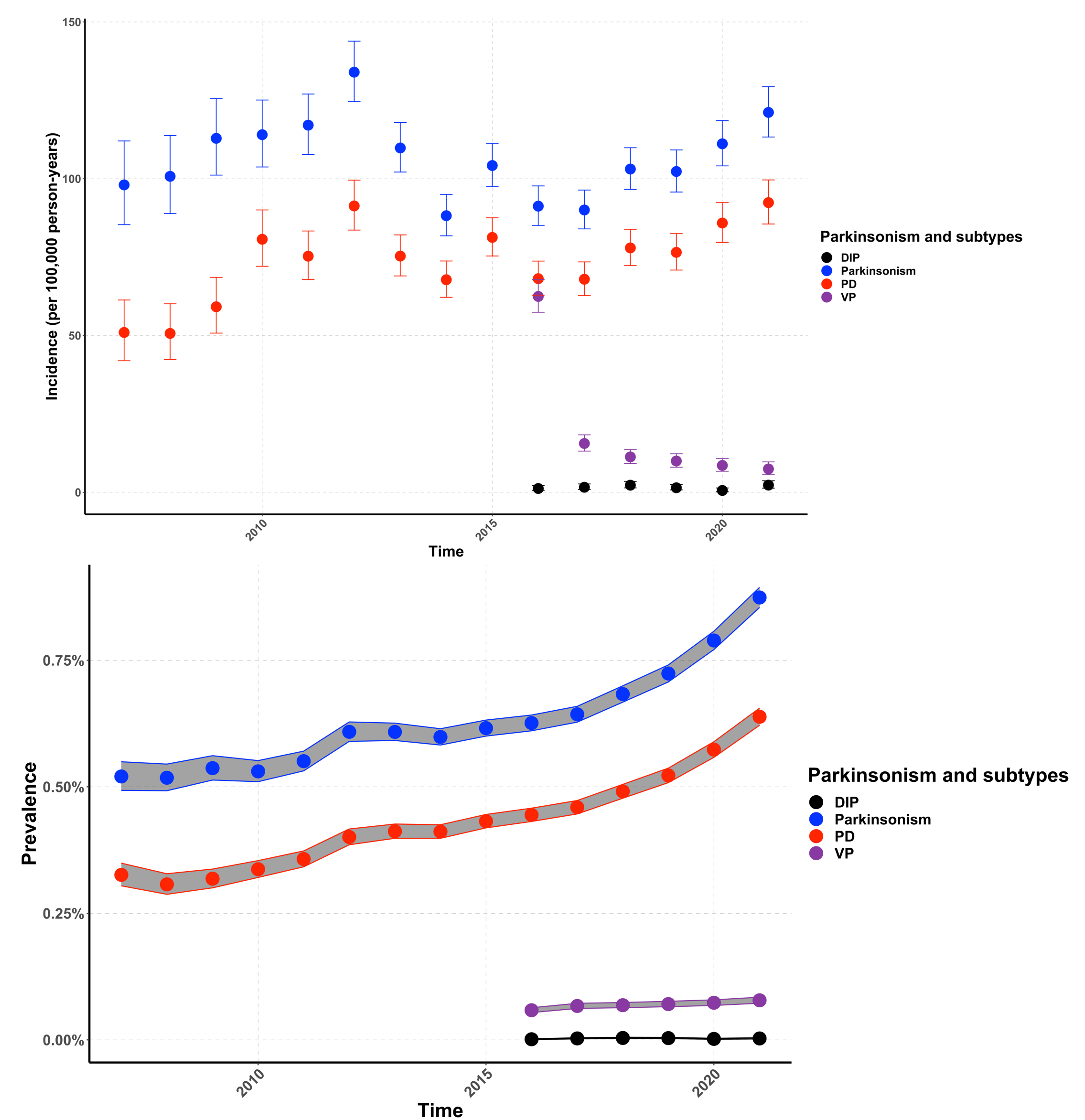


Figure 2. The incidence and Prevalence of Parkinson disease and its subtypes

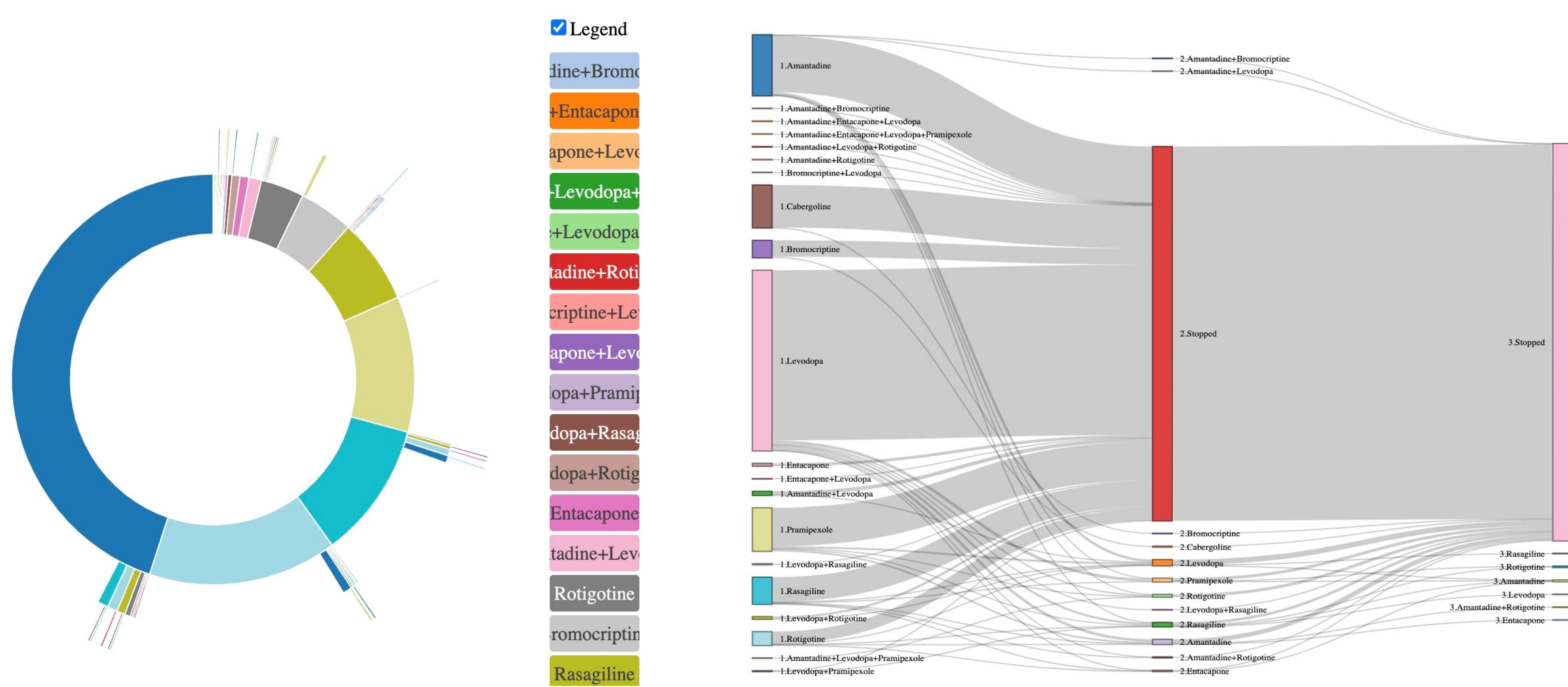


Figure 3. The Treatment pattern of Parkinson medications

**Conclusion:** The findings serve as a valuable reference for local government initiatives in optimizing healthcare resource allocation for Parkinson's therapies. The next step of the study is to establish international collaboration and include mortality rates in the analysis. We replicated analytic code at: <https://darwin-eu.github.io/IncidencePrevalence/> & <https://darwin-eu.github.io/TreatmentPatterns/>

