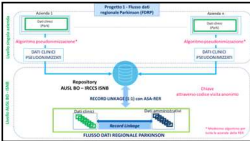


Risk and causes of hospitalization in persons with Parkinson's disease: The ParkLink Emilia-Romagna Region cohort

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ParkLink Emilia-Romagna Region (RER) is a project on **epidemiology of Parkinson's disease (PD)**, which has been recruiting patients since February 2024 and involves IRCCS Istituto delle Scienze Neurologiche di Bologna, AUSL of Romagna, AOU of Ferrara, AOSP of Modena, AOSP of Parma, AUSL of Reggio-Emilia and AUSL of Piacenza.

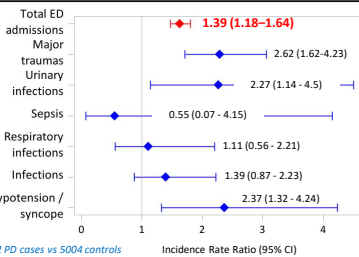


People with PD are diagnosed and recruited by neurologists during routine outpatient clinical practice. By applying a record linkage method, a cohort of people with PD were compared to a general population sample, matched for sex, age, residence, and comorbidity.

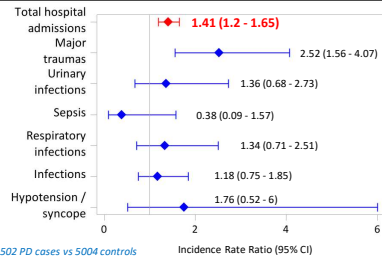
Objectives: to investigate the **risk and causes of emergency department (ED) admission and hospitalization at 1-year** after recruitment, in people with PD compared to a **matched general population cohort**.

ParkLink cohort: 764 people (64% males). Mean age: 73 years (SD 10). Mean age at onset: 63 years (SD 11). Hoehn-Yahr stage ≤ 2 : 64%. Unilateral onset: 74%.

Risk of ED admission at 1-year



Risk of hospitalization at 1-year



Conclusions:

- Linking administrative data with reliable and homogeneous clinical data allows exploring relevant outcomes of the clinical course of people with PD.
- Over a 1-year-period, people with PD in RER had an approximately 40% higher risk of ED admissions and hospitalization, mainly due to a doubled risk of major trauma, compared to a matched general population cohort.

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