

ANALYSIS OF THE EPIDEMIOLOGICAL BURDEN OF OSTEOARTHRITIS IN HUNGARY BASED ON DATA FROM THE GLOBAL BURDEN OF DISEASE STUDY

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OBJECTIVES

Osteoarthritis (OA) is one of the most prevalent forms of arthritis, affecting approximately 15% of the global population over the age of 30. This study aimed to examine the epidemiological disease burden of osteoarthritis in Hungary using data from the Global Burden of Disease Study (GBD, 2021), focusing on the year 2021.

METHODS

The epidemiological disease burden of osteoarthritis was analysed using the Global Burden of Disease Study (GBD, 2021) Institute for Health Metrics and Evaluation (IHME) database for the year 2021. Prevalence, incidence, Disability-Adjusted Life Years (DALYs) and Years Lived with Disability (YLDs) of osteoarthritis were examined nationally, by sex and age group, and by type of osteoarthritis.

RESULTS

In 2021, the prevalence of osteoarthritis in Hungary was 14.11%, representing 13,653.40 cases per 100,000 population (*Figure 1*), with an age-standardized prevalence of 7.67% (7,214.44 per 100,000) (*Figure 2*). The incidence rate was 875.92 per 100,000 population (*Figure 3*). Disability-adjusted life years (DALYs) amounted to 484.95 per 100,000, representing 1.04% of the total DALYs at the national level. The number of years lived with disability (YLDs) corresponded to 46,542.49 years (3.35% of the total national YLDs) (*Figure 4*). Osteoarthritis was more prevalent among women and increased significantly with age. The most commonly affected joints were the hand (6.78%) and knee (6.47%), while hip osteoarthritis had a lower prevalence (1.06%).

CONCLUSIONS

Osteoarthritis imposes a significant burden both on the patient and the healthcare system. While it does not directly appear as a leading cause of death, osteoarthritis contributes considerably to mobility limitations, pain and reduced quality of life.

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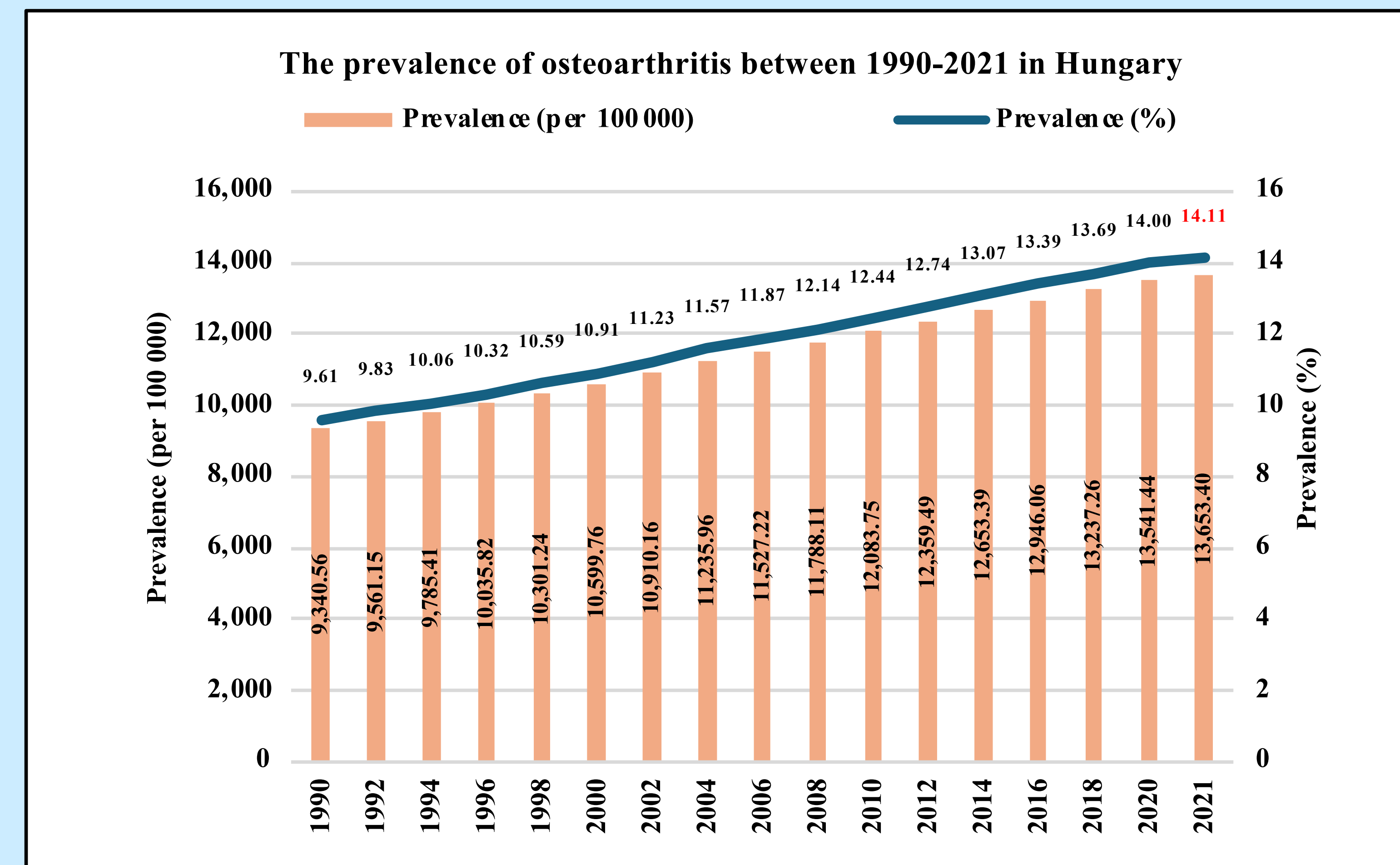


Figure 1 The prevalence of osteoarthritis between 1990-2021 in Hungary

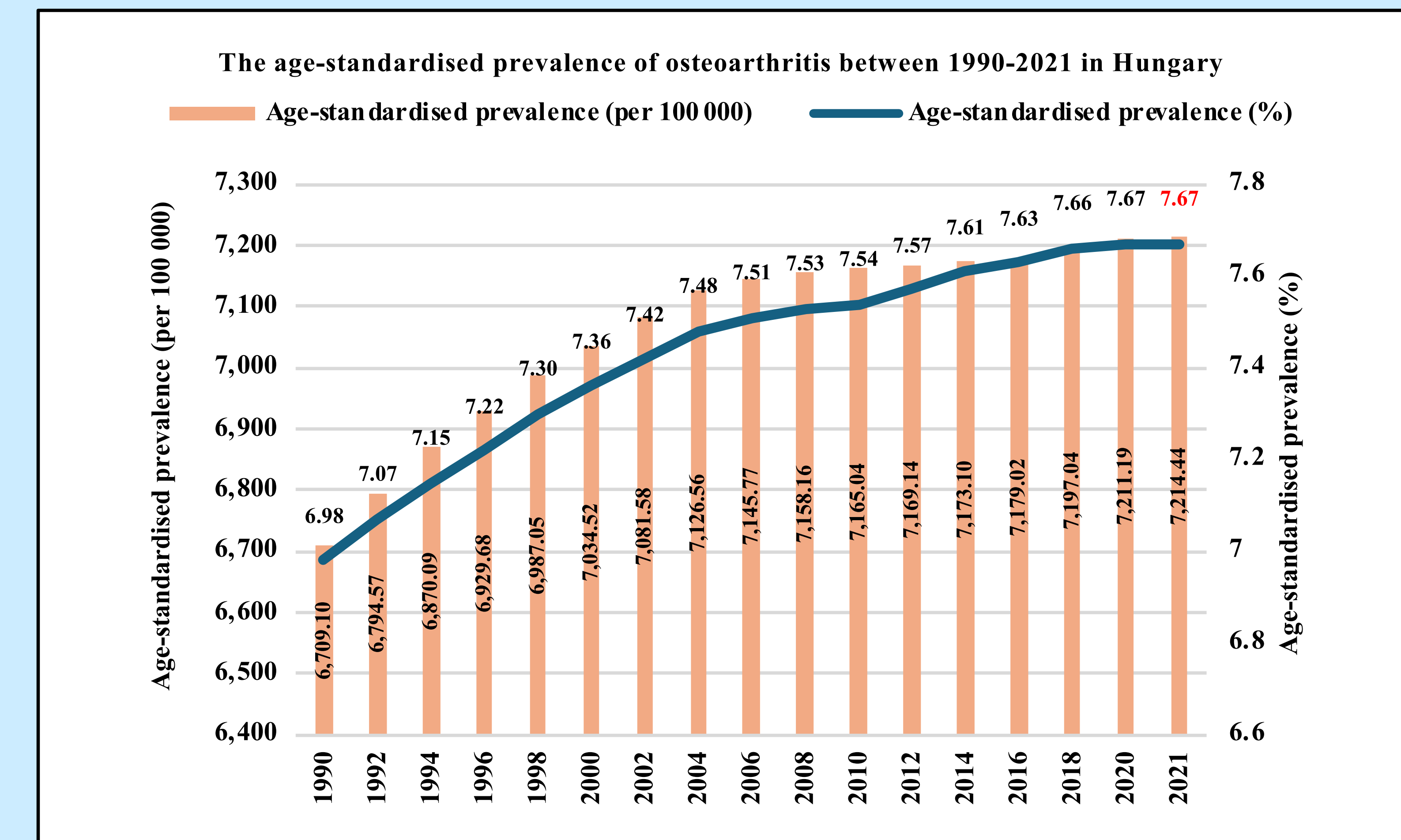


Figure 2 The age-standardised prevalence of osteoarthritis between 1990-2021 in Hungary

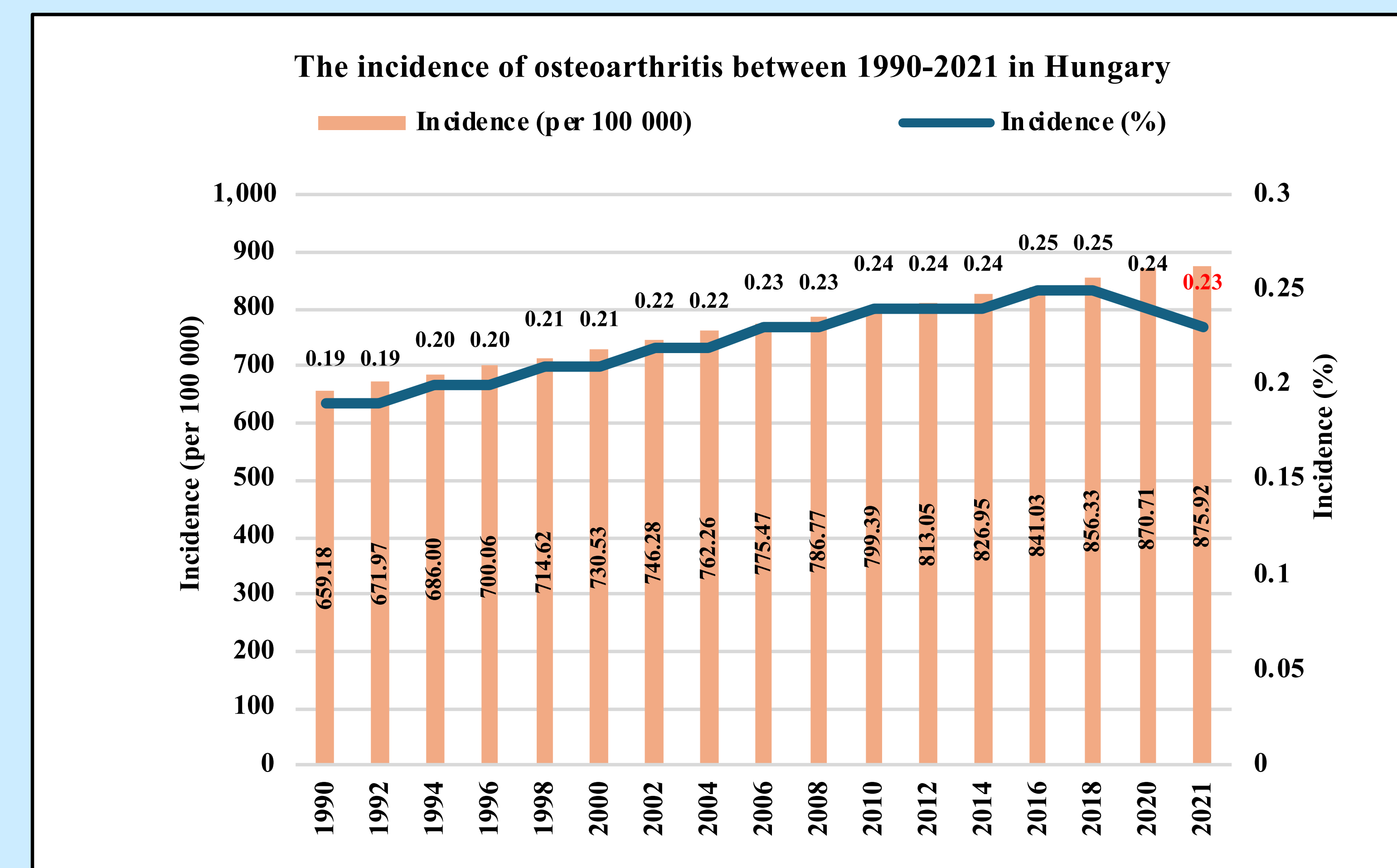


Figure 3 The incidence of osteoarthritis between 1990-2021 in Hungary

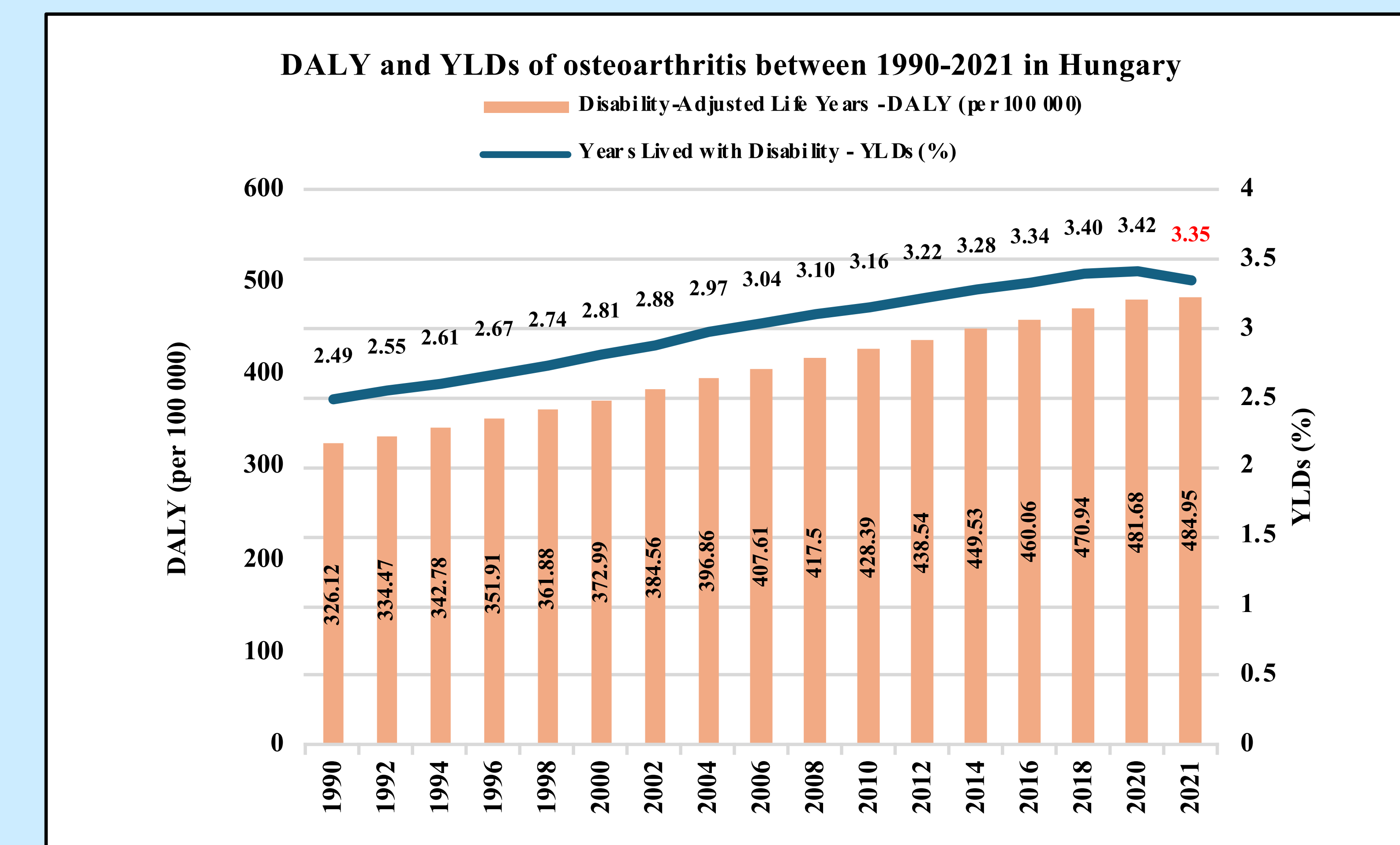


Figure 4 DALY and YLDs of osteoarthritis between 1990-2021 in Hungary



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