

Time to Diagnosis and Associated Comorbidity Burden in Axial Spondyloarthritis in General Practice in France: Results from the THIN® Database

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Objectives

- To describe the patient characteristics and comorbidity burden at the time of earliest recorded back pain in general practice and at the time of axial spondyloarthritis (axSpA) diagnosis
- To estimate the time to diagnosis of axSpA from earliest recorded back pain in general practice.

Background

- Delayed diagnosis of axSpA remains a challenge for multiple reasons, including lack of awareness in primary care and difficulty in distinguishing chronic inflammatory back pain from other, more prevalent back pain types.
- Longer diagnostic delays are associated with worse clinical, psychological, social and economic outcomes¹.
- Investigating the time to diagnosis and associated comorbidity burden will help inform targets for improvement and raise awareness.

Methods

Study Design

- This retrospective descriptive study utilized data from the French electronic health records "THIN" database from a representative sample of 2,000 general practitioners (GPs) between January 2010 and August 2023 (Figure 1).

Patients

- Adult patients with axSpA and at least 3 years of continuous enrolment with their GP prior to axSpA diagnosis, with documented back pain in their medical history prior to axSpA diagnosis, were included. Patients diagnosed with rheumatoid arthritis and psoriatic arthritis within one year preceding axSpA diagnosis were excluded.

Study Assessment and Statistical Analyses

- Results were reported descriptively using summary statistics. Patient characteristics and musculoskeletal, extra-musculoskeletal manifestations and comorbidities were assessed at 1) the time of earliest recorded back pain by the GP and 2) the time of axSpA diagnosis. Time to diagnosis was defined as time between these two time points. Differences between genders for time to diagnosis was tested with a Student's t-test.

Results

- A total of 4,402 patients with axSpA were included, with a mean (standard deviation, SD) number of years with available data before axSpA diagnosis of 10.4 (4.9) years. 43% were male and the mean (SD) age was 40 (14) years at earliest back pain diagnosis and 47 (14) years at axSpA diagnosis.
- The burden of musculoskeletal, extra-musculoskeletal manifestations and comorbidities increased between the time of earliest recorded back pain and the time of axSpA diagnosis. The largest increases were seen for enthesitis, fatigue, depression and anxiety (Figure 3).
- The mean (SD) time in years between the earliest back pain diagnosis recorded by the GP and the first axSpA diagnosis was 6.3 (4.5) years, with 38% of patients experiencing a time to diagnosis longer than 7 years. No significant differences in time to diagnosis between men and women were observed (Figure 2). Patients had a median (Q1, Q3) of 3 (2, 7) documented back pain episodes recorded in their GP records prior to their axSpA diagnosis (Figure 4).

Summary

This analysis evaluated time to diagnosis in axSpA and associated comorbidity burden



Time to diagnosis was 6.3 years on average, and no significant difference was observed between men and women



Musculoskeletal, extra-musculoskeletal manifestations and comorbidities increased in the time between the earliest GP consultation for back pain and axSpA diagnosis

Figure 1 Study design

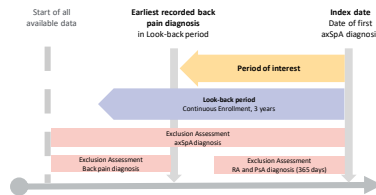
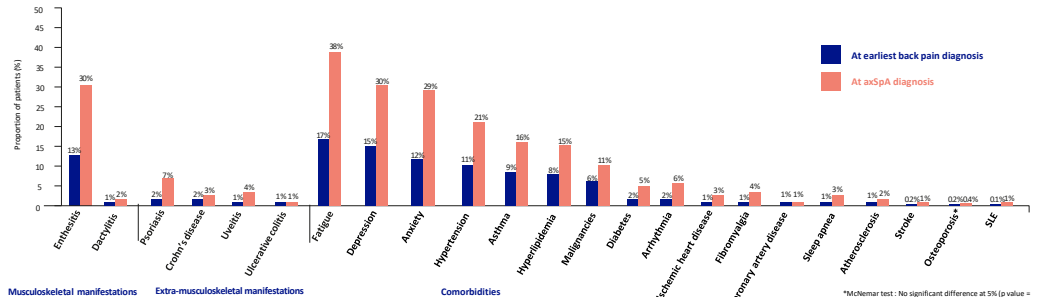


Figure 3 Distribution of musculoskeletal, extra-musculoskeletal manifestations and comorbidities



*McNemar test : No significant difference at 5% (p value = 0.04) between the earliest recorded back pain and the axSpA diagnosis

Conclusions

- Diagnostic delay remains a key challenge for patients with axSpA in France, with several consultations for back pain in primary care prior to diagnosis and an average time to diagnosis of over 6 years after the earliest back pain consultation.
- An increased number of musculoskeletal, non-musculoskeletal manifestations and comorbidities were observed at the time of axSpA diagnosis compared to when back pain was first consulted for, highlighting a worsening disease burden over time.
- Interventions are needed to support GPs in recognising chronic back pain patients who may benefit from a timely referral to rheumatology to improve time to diagnosis.

axSpA: axial spondyloarthritis; SD: standard deviation; GP: general practitioner; PsA: Psoriatic arthritis; RA: Rheumatoid arthritis; SLE: Systemic lupus erythematosus; Q1: upper quartile; Q3: lower quartile

References: ¹Yi E et al. Rheumatol Ther. 2020 Mar;7(1):65-87.
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