Included Patients

(N=56)

22 (39.3)

3 (5.4)

3 (5.4)

1 (1.8)

1 (1.8)

1 (1.8)

1 (1.8)

14 (25.0)

Documented at or

Prior to Index Date

14 (25.0)

30 (53.6)

7 (12.5)

8 (14.3)

8 (14.3)

1 (1.8)

11 (19.6)

14 (25.0)

Prevalence of ASAS Classification Criteria at First

Documented at

First Visit

(N=56)

10 (17.9)

16 (28.6)

27 (48.2)

5 (8.9)

3 (5.4)

7 (12.5)

4 (7.1)

4 (7.1)

3 (5.4)

1 (1.8)

5 (8.9)

0 (0.0)

3 (5.4)

0 (0.0)

Visit and Through Index Date

Treatment Journey of Patients with Non-Radiographic Axial Spondyloarthritis in a US Rheumatology Office Setting: A Retrospective Chart Review

Presented at CCR East 2023 | May 4–7 | Destin, FL

Objective

This study aimed to assess the path to diagnosis and treatment for non-radiographic axial spondyloarthritis (nr-axSpA) patients by evaluating time to diagnosis, treatment patterns, and clinical care before and after diagnosis.

Background

- Nr-axSpA is a chronic rheumatic disease mainly affecting the axial skeleton.1
- Limited awareness and lack of definitive diagnostic criteria may lead to alternative diagnoses and inadequate intervention.1
- The journey to nr-axSpA diagnosis is frequently protracted and patients may receive inappropriate treatment.

Methods

- Medical record data were extracted from the American Rheumatology Network database by Trio Health (January 2014–May 2021; Figure 1).
- Eligible patients were \geq 18 years old, diagnosed with nr-axSpA, with ≥1 visit ≥30 days post-index visit (associated with earliest record of nr-axSpA).
- To describe the patient journey, we report referring physician specialty, prior diagnoses (via International Classification of Diseases [ICD]/Systemized Nomenclature of Medicine [SNOMED] codes), time from first rheumatology visit to nr-axSpA diagnosis (Kaplan-Meier estimate), therapies before/after diagnosis, and Assessment of SpondyloArthritis international Society (ASAS) classification criteria.

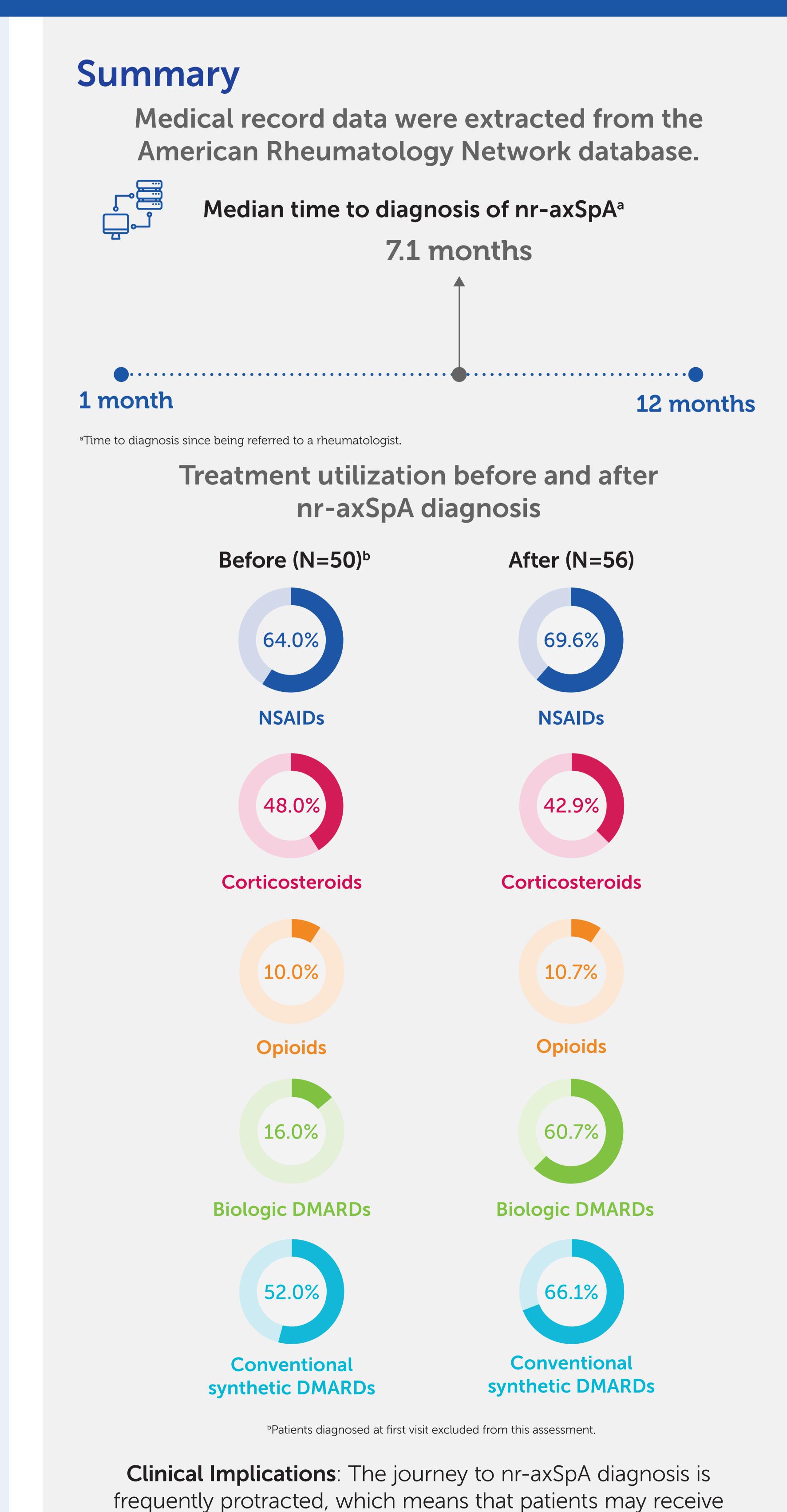
Results

Patient Demographics and Baseline Characteristics

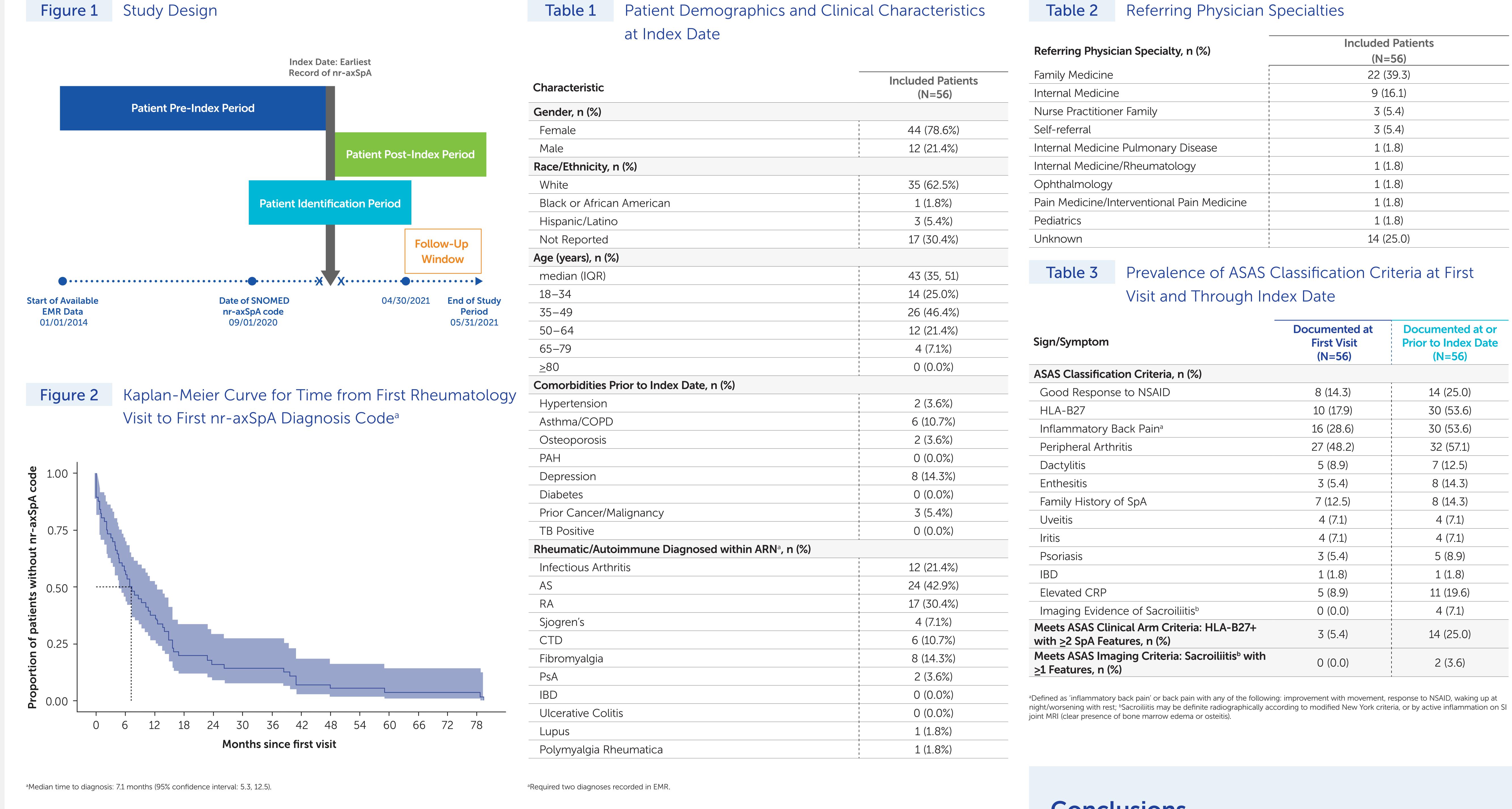
- A total of 56 patients met the eligibility criteria for inclusion in the study (**Table 1**).
- Patients were primarily white (62.5%) and female (78.6%) with a median age of 43 years at diagnosis.
- Most common diagnoses by a rheumatologist prior to the index date were ankylosing spondylitis (42.9%), rheumatoid arthritis (30.4%), and infectious arthritis (21.4%; **Table 1**).
- Most patients were referred to rheumatology from family medicine (39.3%) or internal medicine (16.1%; Table 2).

Diagnosis and Treatment History

- Median time from first rheumatology visit to nr-axSpA diagnosis was 7.1 months (95% confidence interval: 5.3, 12.5; Figure 2); time to diagnosis was within 6 months for 42.9% and within 12 months for 62.5% of patients.
- Treatment utilization was highest for non-steroidal anti-inflammatory drugs (NSAIDs), corticosteroids, and synthetic disease-modifying antirheumatic drugs (DMARDs) both before and after nr-axSpA diagnosis.
- Before diagnosis, 32/50 (64.0%), 24/50 (48.0%), and 5/50 (10.0%) of included patients used NSAIDs, corticosteroids, and opioids, respectively, versus 39/56 (69.6%), 24/56 (42.9%), and 6/56 (10.7%) post-diagnosis.
- Biologic DMARDs and conventional synthetic DMARDs were used by 8/50 (16.0%) and 26/50 (52.0%) of patients, respectively, before, versus 34/56 (60.7%) and 37/56 (66.1%) post-diagnosis.
- Only 14/56 (25.0%) of patients met ASAS clinical criteria for nr-axSpA classification (Table 3).



inappropriate treatment.



Conclusions

Imaging Evidence of Sacroiliitisb

Good Response to NSAID

Dactylitis

Enthesitis

Elevated CRP

- The journey to diagnosis for patients with nr-axSpA is often protracted, delaying adequate intervention.
- Clinical manifestations often failed to meet nr-axSpA classification criteria, and documented opioid use suggests patients may receive inappropriate treatments even after nr-axSpA diagnosis.
- There is a need for an improved pathway to nr-axSpA diagnosis and greater awareness of the condition among clinicians.

Institutions: ¹UCB Pharma, Smyrna, GA, USA; ²Trio Health, Inc., Louisville, CO, USA

References: 1. Mease P. BMC Musculoskelet Disord. 2022; 23: 240. Author Contributions: Substantial contributions to study conception/design, or acquisition/analysis/interpretation of data: RL, SH, SB, AF; drafting of the publication, or revising it critically for important intellectual content: RL, SH, SB, AF; final approval of the publication: RL, SH, SB, AF. Author Disclosures: RL: Employee of UCB Pharma; SB: Employee and stockholder of UCB Pharma; SH: Employee of Trio Health Inc.; research funding from AbbVie, Horizon, and GSK. Acknowledgements: This study was funded by UCB Pharma. We would like to thank the patients and their caregivers in addition to the investigators and their caregivers and their caregivers and their caregivers are caregivers. MA, for medical writing, and Joanna Honc of the Design team at Costello Medical for graphic design assistance. All costs associated with development of this poster were funded by UCB Pharma.

ARN: American Rheumatology Network; AS: ankylosing spondylitis; ASAS: Assessment of Spondyloarthritis; COPD: chronic obstructive pulmonary disease; CTD: connective tissue disease; CRP: C-reactive protein;

inflammatory drug; PAH: pulmonary arterial hypertension; PsA: psoriatic arthritis; RA: rheumatoid arthritis; SNOMED: Systemized Nomenclature of Medicine; SpA: spondyloarthritis; SI: sacroiliac; TB: tuberculosis.

DMARD: disease-modifying antirheumatic drug; **EMR:** electronic medical record; **HLA-B27:** human leukocyte antigen B27; **IBD:** inflammatory bowel disease; **ICD:** International Classification of Diseases; **ICD:** International Classif