

CLINICAL ENTHESITIS CONCERNS HALF THE PATIENT WITH PSORIATIC ARTHRITIS, IS MORE FREQUENT IN TRIALS THAN IN OBSERVATIONAL STUDIES AND IS ASSESSED HETEROGENEOUSLY: A SYSTEMATIC REVIEW WITH META-ANALYSIS OF 84,262 PATIENTS FROM 212 STUDIES

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BACKGROUND

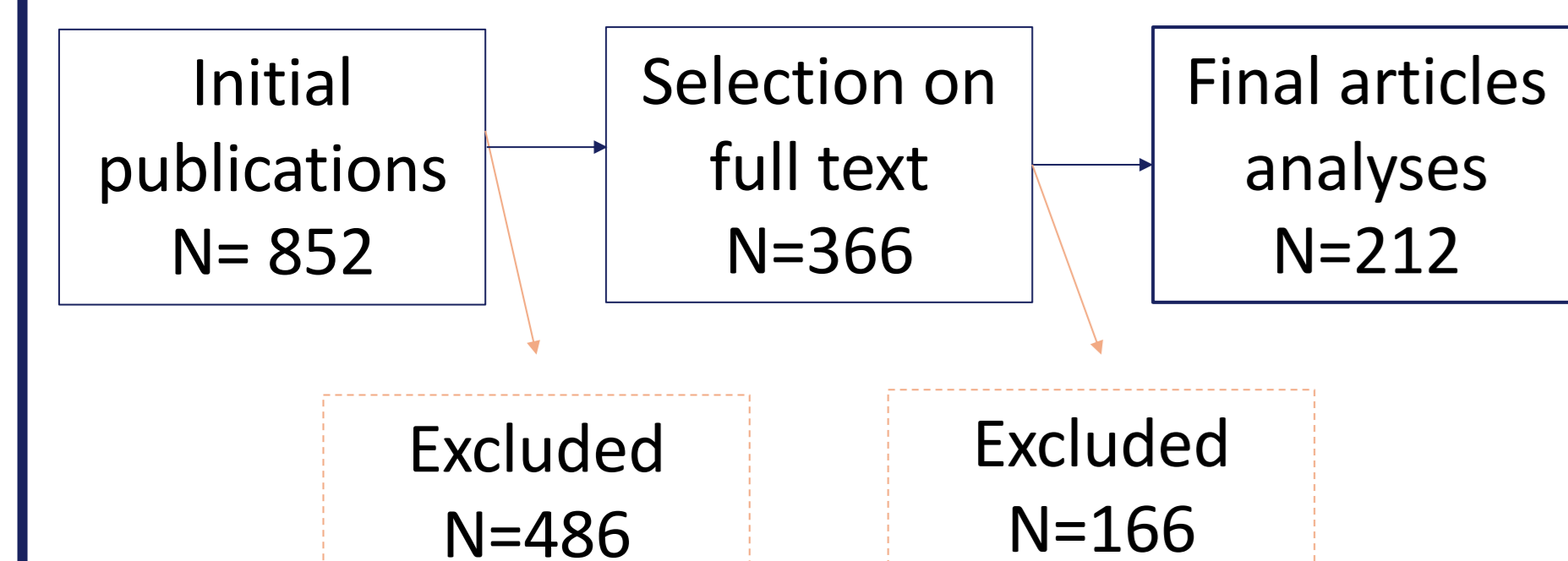
Enthesitis is considered a hallmark of psoriatic arthritis (PsA), however data on the frequency and consequences of enthesitis are conflicting.

METHODS

- Systematic review in PubMed from January 2010 to June 2023
- Studies of adult patients with confirmed PsA, reporting information on enthesitis
- Data collected: prevalence of clinical enthesitis, scores used, number of enthesitis involved per patient, localization of enthesitis, and impact of enthesitis on patient-reported outcomes and use of analgesics.
- Random-effects meta-analysis was performed.

RESULTS (1/3)

Articles selection process:



- Observational studies: 77.4%
- Randomized controlled trials (RCT): 22.6%
- Median of publication: 2020 (2009-2023)

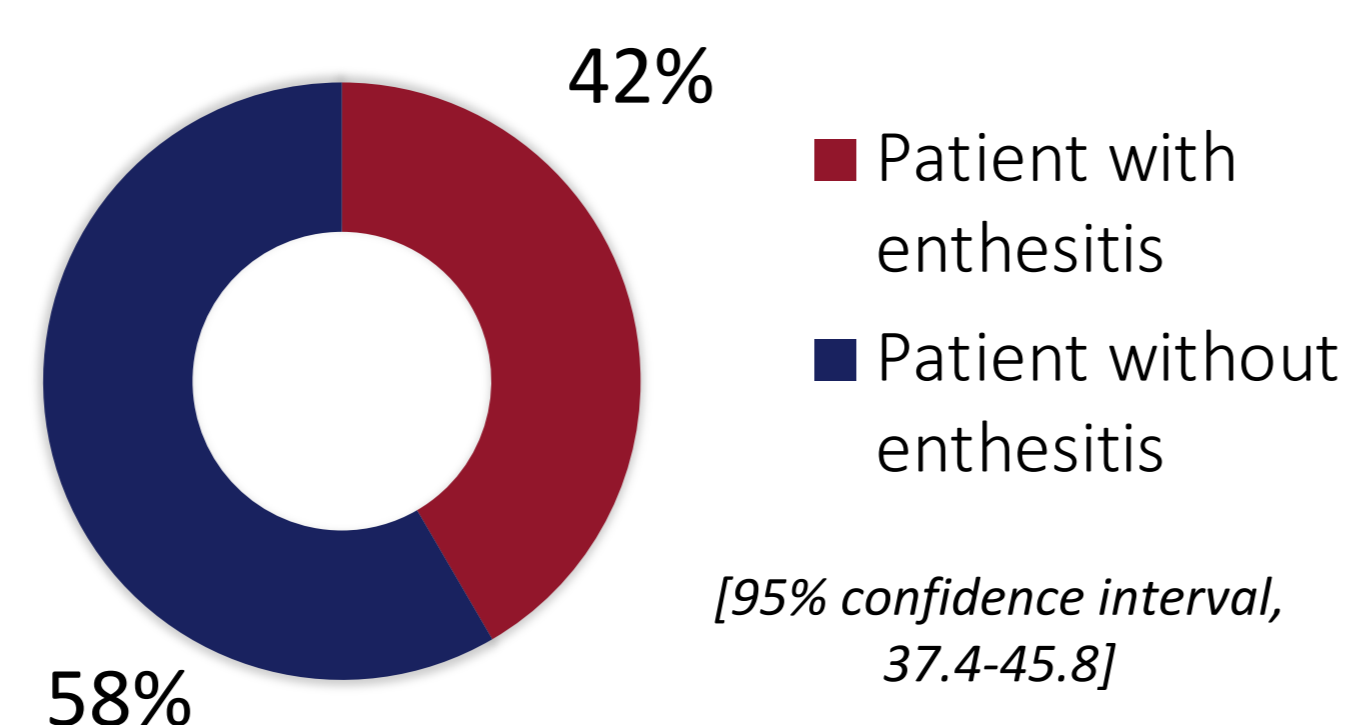
Population characteristics:

- 52.6% were women
- Mean age 50.2 (3.1) years
- Mean disease duration 7.7 (8.4) years

RESULTS (2/3)

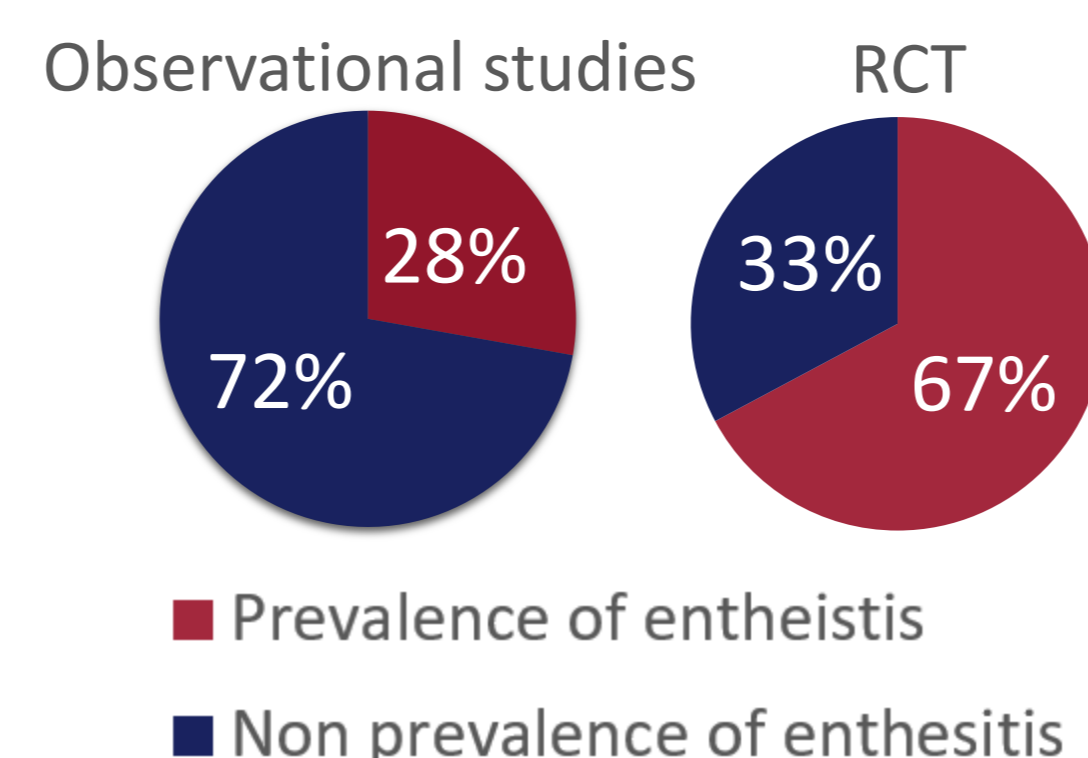
1. PREVALENCE OF ENTHESITIS

Among 77,045 patients from 161 studies



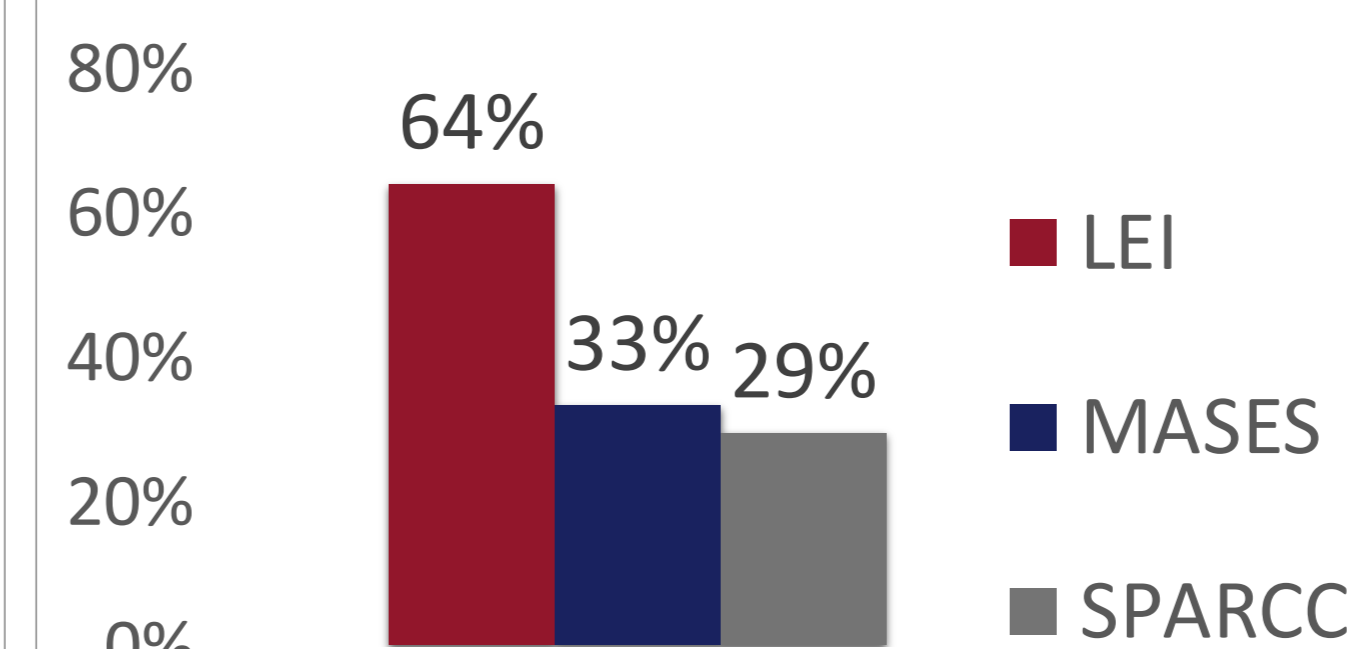
2. PREVALENCE OF ENTHESITIS ACCORDING TO THE TYPE OF STUDY

Among 77,045 patients from 161 studies



3. CUMULATED SCORES USED IN STUDIES¹

Among 24,443 patients from 157 studies



¹ LEI: Leeds enthesitis index; MASES: Maastricht Ankylosing Spondylitis Enthesitis score; SPARCC: SpondyloArthritis Research Consortium of Canada

3. LINK BETWEEN SCORE AND FREQUENCY OF ENTHESITIS

Comparison of 3 scores in 155 studies (64,989 patients)

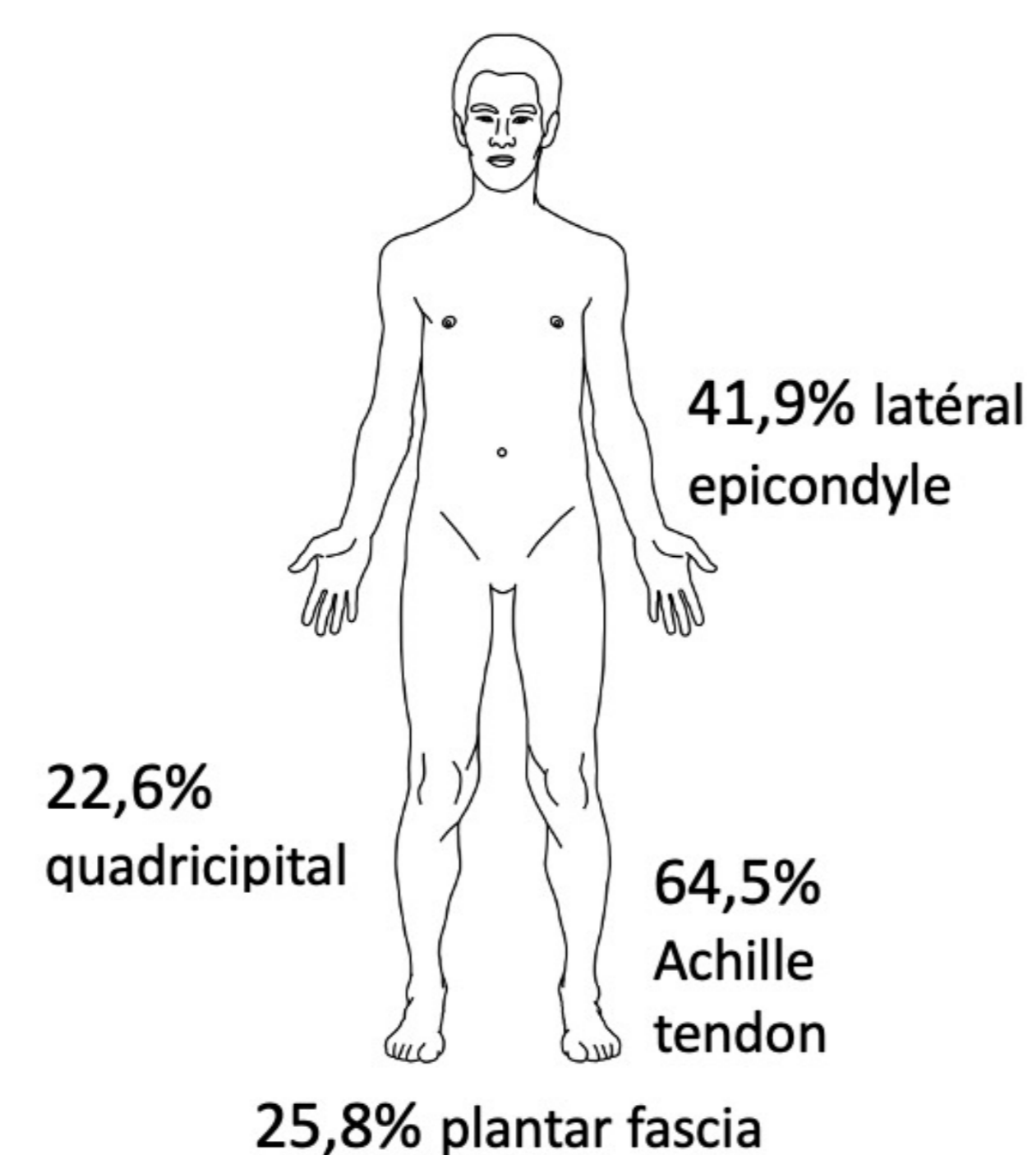
	Prevalence of enthesitis	Number of enthesitis
LEI	50.3 (43.6-56.9)	1.39 (1.07-1.71)
MASES	46.7 (40.5-62.8)	1.55 (0.77-2.34)
SPARCC	49.3 (37.3-61.4)	3.97 (2.76-5.17)

Comparison of 2 scores in 16 studies (7,609 patients)

	Prevalence of enthesitis	Number of enthesitis
LEI	55.1% [39.7-70.84]	1.61 [1.42-1.81]
SPARCC	57.8% [43.9-71.8]	5.67 [5.28-6.06]

4. MAIN LOCALISATIONS

Among around 4000 patients from 31 studies



5. IMPACT OF ENTHESITIS

	Enthesitis	Without enthesitis
Swollen joint count SJC, mean (SD)	7.2 (6.3) [5,456]	5.5 (4.9) [14,246]
Tender joint count TJC, mean (SD)	15.2 (12.1) [5,456]	8.6 (7.2) [14,246]
Dactylitis, %	28.2 [4,543]	24.0 [7,996]
Nail psoriasis, %	50.0 [2,397]	39.7 [6,196]
Disease activity score DAS 28, mean (SD)	4.5 (1.1) [3,340]	3.7 (1.1) [6,367]
Psoriasis Area Severity Index PASI, mean (SD)	6.5 (7.4) [3,625]	5.4 (6.6) [2,292]

[number of patients concerned]

RESULTS (3/3)

Characteristics of patients with enthesitis:

- Higher pain.
- Biggest impact on scores like PSAID12 and HAQ².
- Higher consumption of treatment: Disease-modifying antirheumatic drugs (DMARD), analgesic (opioid or not), non-steroidal anti-inflammatory drug (NSAID).
- Impact on work.

² PSAID: PsA Impact of Disease; / HAQ: Health Assessment Questionnaire

Prevalence of fibromyalgia associated with enthesitis in 2 studies:

- 13.2% in patient with enthesitis [in 705 patients]
- 3.8% without [in 1 681 patients]

CONCLUSION

- Enthesitis is a frequent manifestation in PsA
- Enthesitis was more prevalent in trials than in observational studies, reflecting recruitment patterns.
- The clinical assessment of enthesitis remains challenging, with heterogeneity in the scores used influencing the results: the most used score was the LEI which also led to the lowest prevalence of enthesitis and lowest number of entheses involved.
- The Achilles tendon was confirmed as the most frequent localization of enthesitis.
- Links with patients' quality of life should be further explored.