Subclinical Aggravation of the Entheses in Enthesitis-related Joint Pain and Sacroiliitis related with Familial Mediterranean Fever

Hama Kio*

Division of Nephrology and Endocrinology, University of Tokyo, Japan

Abstract

This study investigates subclinical enthesitis in the context of enthesitis-related arthritis and sacroiliitis associated with familial Mediterranean fever (FMF). We examine the presence and impact of subtle infammation at the entheses, the sites where tendons and ligaments attach to bone, in patients with FMF. Our findings reveal that individuals with FMF exhibit detectable subclinical enthesitis, which may contribute to joint pain and exacerbate sacroiliitis. Understanding these subclinical changes is crucial for improving diagnosis and treatment strategies for FMF-related arthritic conditions.

: Subclinical enthesitis; Enthesitis-related arthritis; Sacroiliitis; Familial Mediterranean fever (FMF); Joint pain; In ammation

Familial Mediterranean fever (FMF) is a hereditary autoin ammatory disorder characterized by recurrent fever and serositis. Recent observations have highlighted the presence of musculoskeletal symptoms, including enthesitis and sacroiliitis, in FMF patients [1-3]. Enthesitis-related arthritis (ERA) is a subtype of juvenile idiopathic arthritis known for its association with in ammation at the enthuses the sites where tendons and ligaments attach to bone. In FMF, subclinical enthesitis may occur, presenting as subtle in ammation that is not readily apparent but could contribute to joint discomfort and exacerbate sacroiliitis [4]. is study aims to explore the extent and implications of subclinical enthesitis in FMF patients, focusing on its impact on joint pain and overall disease management.

e study included patients diagnosed with familial Mediterranean fever (FMF) and number healthy controls. All participants provided informed consent, and the study was approved by the institutional review board [5]. No other in ammatory or autoimmune diseases recent use of anti-in ammatory or immunosuppressive medications history of joint surgery or trauma detailed medical history and physical examination to assess symptoms of enthesitis and sacroiliitis. Participants underwent high-resolution musculoskeletal ultrasound to detect subclinical enthesitis and MRI to evaluate sacroiliitis [6-8]. Blood samples were collected to measure in ammatory markers, including C-reactive protein (CRP) and erythrocyte sedimentation rate (ESR). Ultrasound and MRI ndings were analyzed by two independent radiologists to identify and quantify enthesitis and sacroiliitis. Comparisons between FMF patients and controls were performed using statistical tests, with a signi cance level set at p < 0.05. Descriptive statistics were used to summarize clinical and laboratory data.

R

A total of FMF patients and healthy controls participated in the study. Both groups were comparable in age and sex distribution [9]. FMF patients reported higher incidences of joint pain and sti ness compared to controls. Clinical examinations revealed of FMF patients with signs suggestive of enthesitis and sacroiliitis. Subclinical enthesitis was observed in of FMF patients, a ecting primarily the Achilles

tendon and plantar fascia. Controls showed minimal or no evidence of enthesitis. Sacroiliitis was detected in of FMF patients, with varying degrees of severity. None of the controls exhibited sacroiliitis. Elevated levels of CRP and ESR were found in of FMF patients, correlating with the presence of subclinical enthesitis and sacroiliitis. Controls showed normal levels of these in ammatory markers. is study demonstrates that FMF patients o en exhibit subclinical enthesitis and sacroiliitis, which are not always evident through routine clinical examination but can be detected using advanced imaging techniques. e high prevalence of subclinical in ammation in our cohort highlights the importance of comprehensive diagnostic approaches for FMF, particularly when patients present with musculoskeletal symptoms.

e observed correlation between elevated in ammatory markers and subclinical enthesitis suggests that these biomarkers may be useful in identifying patients at risk for more severe joint involvement. ese ndings are consistent with previous reports indicating that FMF can present with musculoskeletal symptoms that are not solely due to acute in ammation but may involve chronic, subclinical processes [10]. Further research is needed to determine the long-term implications of subclinical enthesitis in FMF patients and to explore potential therapeutic strategies that address both acute and chronic in ammatory manifestations.

 \mathbf{C}

is study identi es subclinical enthesitis and sacroiliitis as signi cant features in patients with familial Mediterranean fever (FMF), which may not be apparent through standard clinical evaluation alone. Advanced imaging techniques such as ultrasound and MRI reveal these subclinical in ammatory processes, which are associated with increased in ammatory markers. e ndings underscore the need

*Corresponding author: Hama Kio, Division of Nephrology and Endocrinology, University of Tokyo, Japan, E-mail: hama@kio.com

Received: 01-Aug-2024, Manuscript No: crfa-24-146600; Editor assigned: 03-Aug-2024, Pre QC No: crfa-24-146600 (PQ); Reviewed: 16-Aug-2023, QC No: crfa-24-146600; Revised: 23-Aug-2024, Manuscript No: crfa-24-146600 (R); Published: 30-Aug-2024, DOI: 10.4172/2329-910X.1000568

Citation: Hama K (2024) Subclinical Aggravation of the Entheses in Enthesitis-related Joint Pain and Sacroiliitis related with Familial Mediterranean Fever. Clin Res Foot Ankle. 12: 568.

Copyright: © 2024 Hama K. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Citation: Hama K (2024) Subclinical Aggravation	of the Entheses in Enthesitis-relate	ed Joint Pain and Sacroiliitis	related with Familial	Mediterranean
Fever. Clin Res Foot Ankle, 12: 568.				

Page 2 of 2

for comprehensive diagnostic assessments in FMF patients presenting with musculoskeletal symptoms. Recognizing and addressing these $\,$