

Pain profile and opioid medication use in patients with idiopathic inflammatory myopathies

Abhiram Bhashyam, MD, PhD^{1,2}, Jerry Williams², Emily Filmore², Lynn Wilson², Manuel Lubinus, PhD², Osniel Gonzalez Ramos³, Salman Bhai, MD^{2,3}

¹ Harvard Medical School and Massachusetts General Hospital, Boston, MA, USA; ² Myositis Support and Understanding, USA; ³ Institute for Exercise and Environmental Medicine, University of Texas Southwestern Medical Center, Dallas, TX, USA

BACKGROUND

Pain is commonly reported in patients with myositis, yet the prevalence and management of pain in myositis are unknown. Pain is an understudied and underappreciated aspect of myositis. This study assesses the presence of pain in the subtypes of myositis as well frequency of opioid and non-opioid pain medication use. We suspect that pain is more prevalent in myositis than previously understood.

METHODS

A survey was developed and distributed by Myositis Support and Understanding, a patient-led advocacy organization, to members of its group. Multivariate logistic regression analysis and chi-squared tests were performed.

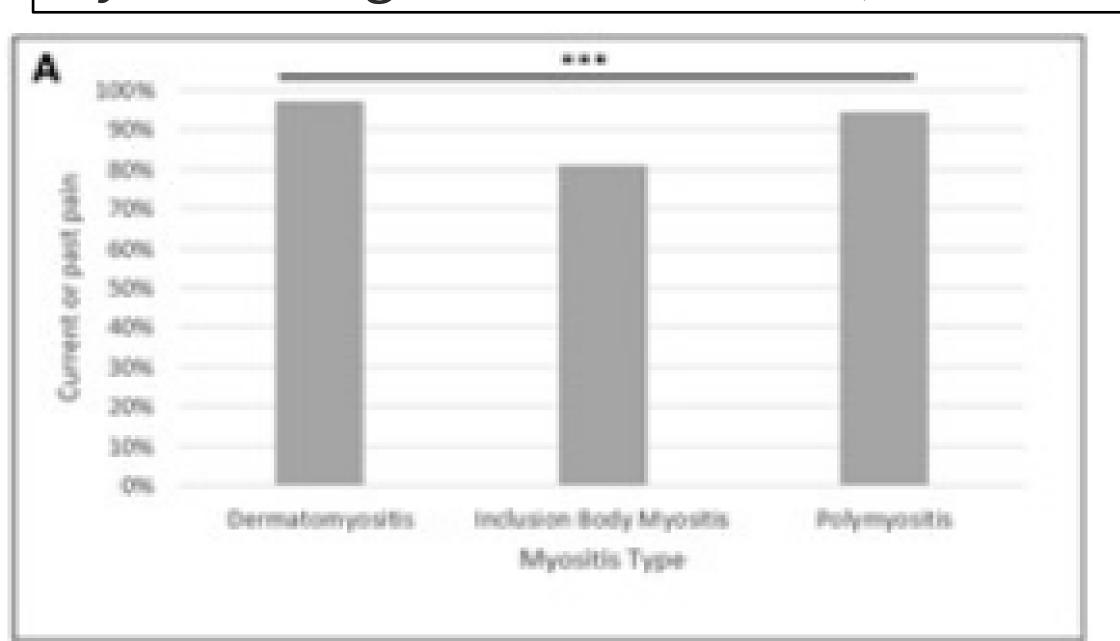
RESULTS

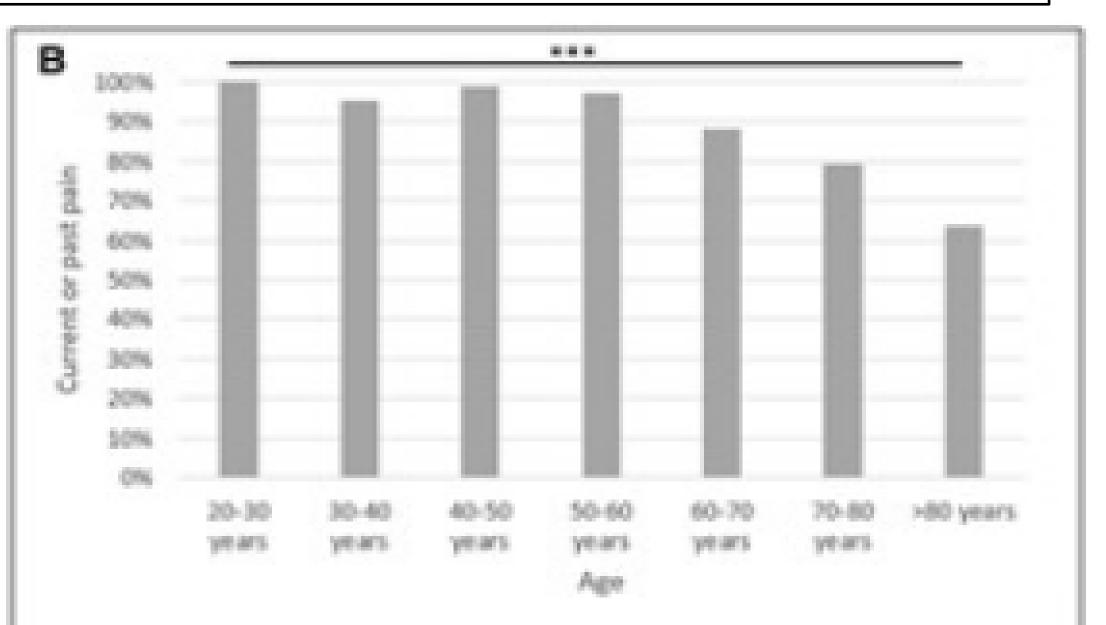
A total of 468 participants completed the survey. 423 participants (DM n=183, PM n=109, and IBM n=131) were included, based on reported diagnosis, for final analysis. 91.5% of myositis patients reported current or past pain with 99% attributing their pain to myositis.

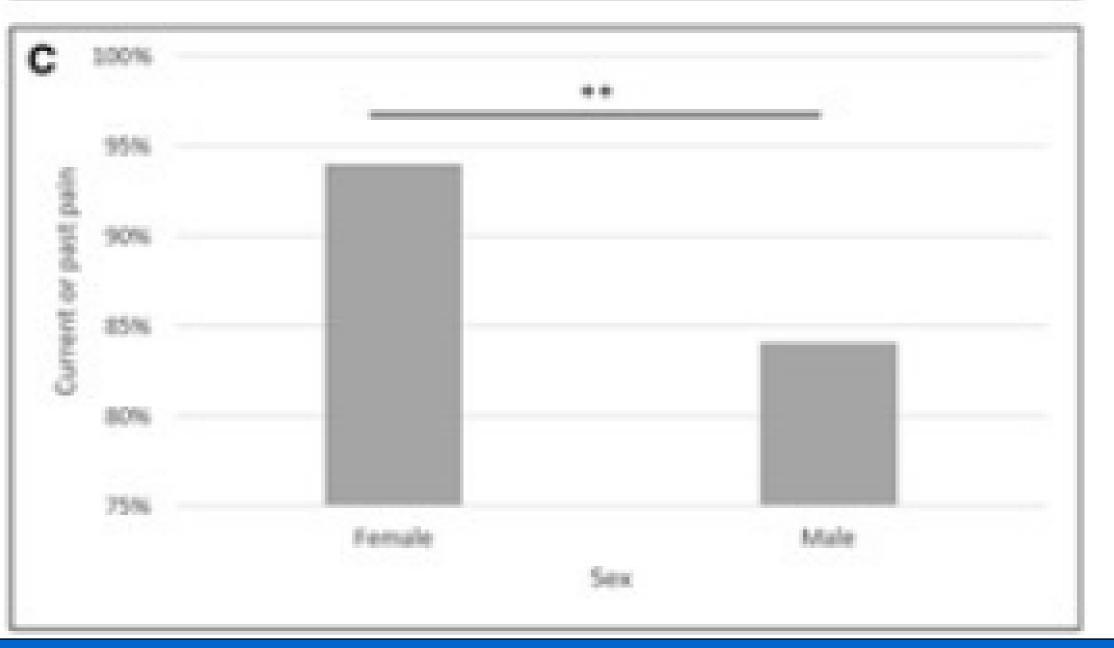
Characteristic	Current or past pain		Any pain medication	
	OR (95% CI)	<i>P</i> -value	OR (95% CI)	<i>P</i> -value
Myositis type				
IBM	_	_	_	_
DM	3.7 (1.3, 10.2)	0.011	1.0 (0.4, 2.2)	0.957
PM	2.1 (0.7, 6.7)	0.188	2.0 (0.8, 5.2)	0.165
Age >60 years	0.2 (0.1, 0.6)	0.003	0.7 (0.4, 1.4)	0.280
Male	0.8 (0.4, 1.7)	0.542	0.9 (0.4, 2.0)	0.831

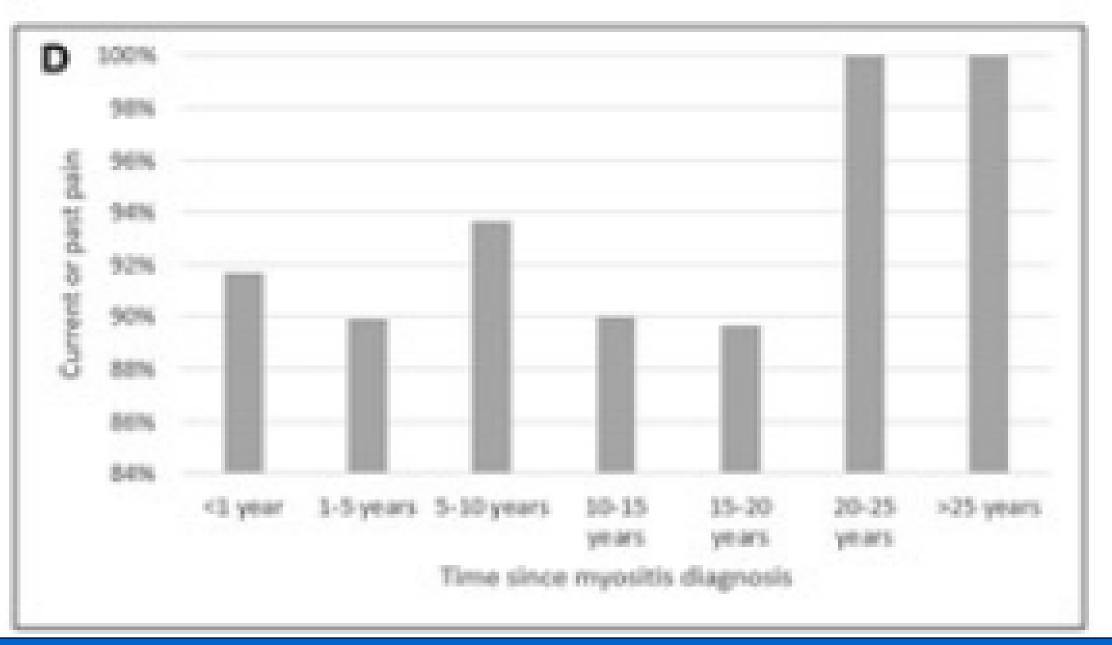
	Non-opioid pain med	Non-opioid pain medication		Opioid pain medication	
Characteristic	OR (95% CI)	<i>P</i> -value	OR (95% CI)	<i>P</i> -value	
Myositis type					
IBM	_	_	_	_	
DM	1.1 (0.4, 3.2)	0.825	1.2 (0.7, 2.2)	0.523	
PM	0.7 (0.3, 1.9)	0.491	2.0 (1.04, 3.8)	0.038	
Age >60 years	1.2 (0.5, 2.7)	0.679	1.0 (0.6, 1.7)	0.854	
Male	0.5 (0.3, 1.2)	0.118	0.9 (0.5, 1.6)	0.784	

Association of pain with (**A**) myositis subtype, (**B**) age, (**C**) sex and (**D**) time since myositis diagnosis. **P = 0.002, ***P < 0.001









CONCLUSION

Pain is a commonly reported symptom in myositis with variable treatment strategies, including opioid medications. This study highlights the importance of addressing pain as part of myositis treatment as well as the need for future studies understanding treatment effectiveness.



