

ANXIETY SENSITIVITY IS ASSOCIATED WITH INTENTIONAL AVOIDANCE OF PHYSICAL ACTIVITY IN WOMEN WITH MIGRAINE



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BACKGROUND

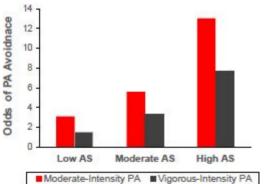
- Physical activity (PA) is recommended for migraine prevention and management; however, many individuals with migraine avoid PA for reasons that remain largely unknown.
- Intentional avoidance of PA is a common migraine management strategy, likely due to beliefs that PA will trigger migraine onset or worsen existing pain.
- Anxiety sensitivity (fear of anxiety and bodily sensations) amplifies the subjective experience of pain and contributes to fear and avoidance of activities that produce bodily distress.
- Anxiety sensitivity is a potential correlate of intentional PA avoidance and may strengthen fearful beliefs about PA's detrimental effect on migraine.

APPROACH

Women (n = 100) with migraine determined by the IDMigraine completed an online survey posted through the Association of Migraine Disorders webpage

- Anxiety Sensitivity (Anxiety Sensitivity Index-3)
- PA Avoidance (adapted Global Physical Activity Questionnaire; avoidance of
- PA "to manage migraine headaches")
 - · Presence (past 30-day) Frequency (days/week)
 - Intensity (moderate, vigorous)
- PA-Migraine Beliefs
- Likelihood PA will trigger migraine (moderate/vigorous PA intensity, 0-100%)
 - Likelihood PA will worsen pain (moderate/vigorous PA intensity, 0-100%)
 - Fear of pain: I fear that if I exercise, I will experience head pain."
 - Avoidance: "Avoiding exercise will reduce how often I get migraine."
 - Barrier. "If I did not have migraine I would exercise more."

Likelihood of PA Avoidance



Descriptives

Variable	Summary	
Age	37.8 ± 9.6	
# Migraine Attacks (past month)	10.3 ± 8.8	
Anxiety Sensitivity (ASI-3)	24.0 ± 15.2	
PA Avoidance Moderate-Intensity	73%	
Days/Week	2.9 ± 2.5	
PA Avoidance Vigorous-Intensity	74%	
Days/Week	3.1 ± 2.6	
PAs a Triggering Factor		
Moderate-Intensity	50.2 ± 30.2	
Vigorous-Intensity	61.8 ± 32.2	
PA as a Worsening Factor		
Moderate-Intensity	75.6 ± 24.4	

84.2 ± 19.9

1.9 ±1.5

1.3 ±1.4 2.7 ±1.4

17.5%**

Migraine as a barrier to exercise

Fear exercise will cause head pain Belief exercise will reduce migraine

Vigorous-Intensity

REGRESSION RESULTS			
Sr2 from Multiple Regression:	PA Intensity		
	Moderate	Vigorous	
Frequency of PA Avoidance	5.8%*	4.7%*	
Likelihood PA will trigger migraine	3.40%	6.0%*	
Likelihood PA will worsen migraine	< 1%	5.1%*	
Fear exercise will cause head pain	10.3%**		
Belief exercise will reduce migraine	8.1%*		

Migraine as a barrier to exercise

DISCUSSION

- · Anxiety sensitivity was associated with:
- Greater likelihood of avoiding PA and more frequent PA avoidance at both moderate and vigorous intensities
- . Higher expected likelihood that PA will trigger and worsen migraine, particularly PA of vigorous intensity
- Stronger fear-based beliefs about migraine and exercise
- Anxiety sensitivity may be a promising therapeutic target to promote PA in migraine via reduction in fear-based beliefs and avoidance behavior

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