

## Introduction

Self-compassion is described as extending compassion to one's self in instances of perceived inadequacy, failure, or general suffering. It is often composed of three main components: self-kindness, common humanity, and mindfulness.

Self-compassion is associated with:

- Improved health outcomes
- Fewer symptoms of depression and anxiety
- Higher utilization of healthy coping mechanisms
- Higher overall wellbeing
- Lower psychological distress
- Lower rates of substance use

Limitations of current research:

- Little is known about the role of self-compassion in functioning among those with chronic pain

## Aim

- Determine if self-compassion may play a role in several measures of functioning in a treatment seeking sample with chronic pain.

## Methods

Survey was administered at baseline upon entering a research study examining the effectiveness of a 4-week outpatient interdisciplinary pain program.

**Table 1. Sample Demographic Information**

Measure	N (%) / M ± SD
<b>Sample Size</b>	255
<b>Age (yrs)</b>	50.82 ± 14.33
<b>Sex</b>	
Men	72 (29)
Women	179 (71)
<b>Marital Status</b>	
Single	35 (14)
Married/Co-Habiting	163 (65)
Divorced	33 (13)
Widowed	19 (8)
<b>Ethnicity/Race</b>	
Black/Caribbean	1 (.4)
Indian	1 (.4)
Other Asian	1 (.4)
White/Caucasian	246 (97)
Pakastani	1 (.4)
Other	1 (.4)
<b>Years of Education</b>	12.95 ± 3.03
<b>Pain Duration (yrs)</b>	11.43 ± 11.47
<b>Usual Pain Intensity (NRS)</b>	7.51 ± 1.70

### Measures

- Self-Compassion Scale (SCS)
- Chronic Pain Acceptance Questionnaire (CPAQ)
- British Columbia Major Depression Inventory (BCMDI)
- Chronic Pain Values Inventory (CPVI)
- Sickness Impact Profile (SIP)
- Brief Pain Coping Inventory (BPCI)
- Pain Anxiety Symptom Scale (PASS)

## Analyses

**Aim:** Seven separate linear regression models, with self-compassion predicting several measures of functioning (pain-related fear, depression, physical disability, psychosocial disability, pain acceptance, success in valued activities, and utilization of adaptive pain coping strategies), while controlling for age, gender, pain duration, and usual pain intensity in the past week.

## Results

Figure 1. SCS and Depression Scatterplot

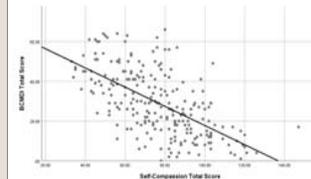


Figure 3. SCS and Psychosocial Funct. Scatterplot

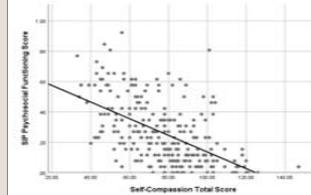


Figure 5. SCS and Values Success Scatterplot

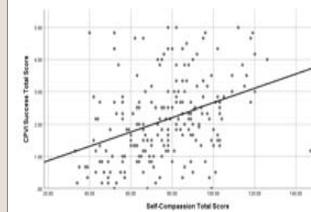


Figure 7. SCS and Pain Acceptance Scatterplot

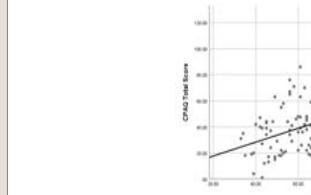


Figure 2. SCS and Pain-related Fear Scatterplot

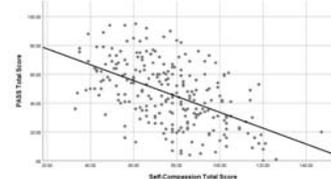


Figure 4. SCS and Physical Funct. Scatterplot

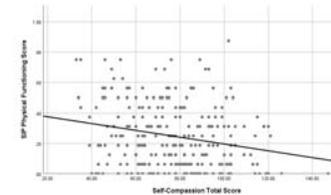
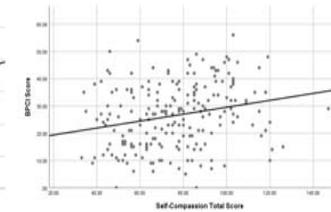


Figure 6. SCS and Pain Coping Scatterplot



## Results

Self-compassion was negatively associated with:

- Depression ( $F_{207} = 32.09; p < .001; R^2 = .44$ )
- Psychosocial functioning ( $F_{211} = 17.04; p < .001; R^2 = .29$ )
- Physical functioning ( $F_{212} = 6.98; p < .001; R^2 = .14$ )
- Pain-related fear (Pain anxiety) ( $F_{202} = 18.35; p < .001; R^2 = .32$ )
- Pain acceptance ( $F_{164} = 18.60; p < .001; R^2 = .37$ )
- Success on valued activities ( $F_{184} = 6.47; p < .001; R^2 = .15$ )
- Pain coping ( $F_{178} = 2.90; p < .05; R^2 = .08$ )

Among the covariates, higher pain was associated with worse physical functioning and depression, lower pain was associated with better pain acceptance, and older age was associated with worse physical functioning.

**Table 2. Final step of each linear regression for each criterion variable**

Criterion Variable	B	S.E.	T	Sig.	95% C.I. for B Lower	95% C.I. for B Upper
<b>Depression (BCMDI)</b>						
Self-Compassion	-.45	.04	-10.78	<.001	-.53	-.36
<b>Pain-related Fear (PASS)</b>						
Self-Compassion	-.52	.06	-8.40	<.001	-.65	-.40
<b>Psychosocial Functioning (SIP)</b>						
Self-Compassion	-.005	.001	-8.48	<.001	-.006	-.004
<b>Physical Functioning (SIP)</b>						
Self-Compassion	-.003	.001	-3.80	<.001	-.004	-.001
<b>Values Success (CPVI)</b>						
Self-Compassion	.02	.004	5.19	<.001	.01	.03
<b>Pain Coping (BPCI)</b>						
Self-Compassion	.14	.04	3.49	<.001	.06	.22
<b>Pain Acceptance (CPAQ)</b>						
Self-Compassion	.52	.06	8.56	<.001	.40	.64

## Conclusions and Future Directions

- Self-compassion was significantly associated with better functioning across all seven measures, even after controlling for usual pain intensity in the past week, and pain duration.
- Among those with chronic pain, cultivating self-compassion may be an adaptive process that may contribute to improved health outcomes.
- Future studies should examine developing a new intervention or adapting a current intervention to target building self-compassion among those with chronic pain

## Contact

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