

How young adults experience pain affects self-injury, study finds

February 27 2019, by Patti Verbanas

Teen-agers and young adults who intentionally hurt themselves engage in such behavior based, in part, on how they experience pain and their emotional distress, according to a Rutgers study.

The study, which examines physical [pain](#) in non-suicidal self-injuries, appeared online ahead of in print in the March 2019 issue of the journal *Clinical Psychological Science*.

The Centers for Disease Control and Prevention report that non-suicidal self-injury is relatively common in adolescents, with more than 10 percent of teen-age boys and about 25 percent of teen-age girls doing so each year.

"The experience of pain during non-suicidal self-injury remains a mystery and can be difficult for clinicians and families to understand because it challenges our assumption that people want to avoid or minimize pain," said author Edward Selby, an associate professor in psychology and a faculty member at the Rutgers Institute for Health, Health Care Policy and Aging Research. "However, people who engage in this behavior intentionally and repeatedly inflict physical injury on themselves despite—or perhaps because of—the physical pain it elicits."

People experience pain in different ways during non-suicidal self-injury: some experience little or no pain; however, others experience pain, which may be used to distract themselves from [emotional distress](#).

The researchers studied 47 [young adults](#) between ages 15 and 21 who regularly hurt themselves and did so at least twice in the previous two weeks. None of the participants were at risk for suicide or had been diagnosed with a psychotic disorder, life-threatening anorexia or developmental delays. Nearly 70 percent were female, which reflects the higher rate of females versus males who self-injure.

Using a smartphone app designed at Rutgers specifically for this study, the researchers questioned the participants five times a day for two weeks. Each time, the participants were asked if they had thought about hurting themselves and if they had done so since the last assessment.

They rated the duration of each injury episode and described the behavior, such as cutting, biting, punching, hair pulling, head banging or burning. They also rated their physical pain on a scale of zero (no pain) to 10 (extremely painful) and the extent to which they were experiencing one of 21 emotions—such as being overwhelmed, sad, angry, anxious, lonely—before, during and immediately after hurting themselves. The study tracked both the number and types of self-injuries.

In the 143 episodes tracked, most participants reported significant pain when they started to hurt themselves. Those who had high negative emotions at the start and experienced less pain reported repeated self-injuries during that episode. Those who had high negative emotions and felt more pain were more likely to have more overall episodes over the two-week period.

"These findings suggest that the individuals who had high emotional distress and instability sought to use [physical pain](#) from self-injury more frequently to relieve their emotional distress," said Selby. "It also shows that an absence of pain sensation during [self-injury](#) may arise as the behavior worsens and can lead these individuals to be less motivated to seek help."

Selby said the study shows people who hurt themselves experience pain differently and that clinicians should examine their [experiences](#) with pain to understand why they started injuring and predict how frequently they may hurt themselves in the future.

More information: Edward A. Selby et al, The Dynamics of Pain During Nonsuicidal Self-Injury, *Clinical Psychological Science* (2018).
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