

Experiencing existential dread? Tylenol may do the trick

16 April 2013

Thinking about death can cause us to feel a sort of existential angst that isn't attributable to a specific source. Now, new research suggests that acetaminophen, an over-the-counter pain medication, may help to reduce this existential pain.

The research is published in *Psychological Science*, a journal of the Association for [Psychological Science](#).

According to lead researcher Daniel Randles and colleagues at the University of British Columbia, the new findings suggest that [Tylenol](#) may have more profound [psychological effects](#) than previously thought:

"Pain extends beyond [tissue damage](#) and hurt feelings, and includes the distress and existential angst we feel when we're uncertain or have just experienced something surreal. Regardless of the kind of pain, taking Tylenol seems to inhibit the [brain signal](#) that says something is wrong."

Randles and colleagues knew from previous research that when the richness, order, and meaning in life is threatened—with thoughts of death, for instance—people tend to reassert their basic values as a coping mechanism.

The researchers also knew that both physical and social pain—like bumping your head or being ostracized from friends—can be alleviated with acetaminophen. Randles and colleagues speculated that the existentialist suffering we face with thoughts of death might involve similar [brain processes](#). If so, they asked, would it be possible to reduce that suffering with a simple [pain medicine](#)?

The researchers had participants take either Tylenol brand acetaminophen or a sugar pill placebo in a double-blind study. One group of participants was asked to write about what would

happen to their body after they die, and the control group was asked to write about having [dental pain](#), an unpleasant but not existentially distressing thought.

All the participants were then asked to read an arrest report about a prostitute, and to set the amount for bail.

Just as expected, the [control group](#) that wrote about dental pain—who weren't made to feel an existentialist threat—gave relatively low bail amounts, only about \$300. They didn't feel the need to assert their values.

On the other hand, the participants who wrote about their own death and were given a sugar pill gave over \$500 for bail – about 40% more than the dental pain group, in line with previous studies. They responded to the threat on life's meaning and order by affirming their basic values, perhaps as a coping mechanism.

But, the participants in this group who took Tylenol were not nearly as harsh in setting bail. These results suggest that their existential suffering was 'treated' by the headache drug.

A second study confirmed these results using video clips. People who watched a surreal video by director David Lynch and took the sugar pill judged a group of rioters following a hockey game most harshly, while those who watched the video and took Tylenol were more lenient.

The study demonstrates that existentialist dread is not limited to thinking about death, but might generalize to any scenario that is confusing or surprising—such as an unsettling movie.

"We're still taken aback that we've found that a drug used primarily to alleviate headaches can also make people numb to the worry of thinking about their deaths, or to the uneasiness of watching a

surrealist film," says Randles.

The researchers believe that these studies may have implications for clinical interventions down the road.

"For people who suffer from chronic anxiety, or are overly sensitive to uncertainty, this work may shed some light on what is happening and how their symptoms could be reduced," Randles concludes.

More information: The Common Pain of Surrealism and Death: Acetaminophen Reduces Compensatory Affirmation Following Meaning Threats, *Psychological Science*, 2013.

Provided by Association for Psychological Science

APA citation: Experiencing existential dread? Tylenol may do the trick (2013, April 16) retrieved 8 May 2021 from <https://medicalxpress.com/news/2013-04-experiencing-existential-dread-tylenol.html>

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