

## Drug 'reduces implicit racial bias,' study suggests

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(Medical Xpress) -- Taking a heart disease medication can affect a person's subconscious attitudes towards race, a team of ethicists, psychiatrists and psychologists at Oxford University has found.

In a study published in *Psychopharmacology*, researchers gave 18 people the drug propranolol and 18 people a [placebo](#) and found that the propranolol group scored significantly lower on the Implicit Attitude Test into subconscious racial bias – a standard test for testing subconscious racial attitudes. There was no significant difference in the groups' explicit attitudes to other races.

Propranolol is a beta-blocker used to treat [heart disease](#) that blocks activation in the peripheral 'autonomic' nervous system and in the area of the brain implicated in fear or emotional responses. The researchers believe propranolol reduced implicit racial bias because such bias is based on automatic, non-conscious fear responses, which propranolol blocks.

Sylvia Terbeck, lead author and experimental psychologist at Oxford University, said: "Our results offer new evidence about the processes in the brain that shape implicit racial bias. Implicit [racial bias](#) can occur even in people with a sincere belief in equality. Given the key role that such implicit attitudes appear to play in discrimination against other ethnic groups, and the widespread use of propranolol for medical purposes, our findings are also of considerable ethical interest."

She added: "Many people with medical conditions are probably already on drugs which affect subconscious bias and more research is needed into how drugs which affect our nervous system affect our moral attitudes and practices."

Professor Julian Savulescu of Oxford University's Faculty of Philosophy, a co-author, added: "Such research raises the tantalising possibility that our unconscious racial attitudes could be modulated using drugs, a possibility that requires careful ethical analysis.

"Biological research aiming to make people morally better has a dark history. And propranolol is not a pill to cure racism. But given that many people are already using drugs like [propranolol](#) which have 'moral' side effects, we at least need to better understand what these effects are."

This study is the result of a collaboration between Sylvia Terbeck and Miles Hewstone of the department of Experimental Psychology, Phil Cowen and Sarah McTavish of the Department of Psychiatry, and Guy

Kahane and Julian Savulescu of the Uehiro Centre for Practical Ethics.

Provided by Oxford University

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