

No Evidence That Women's Preference for Masculine Faces Is Linked With Hormones

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[Data](#) from almost 600 participants show that women's perceptions of male attractiveness do not vary according to their hormone levels, in contrast with some previous research. The [study findings](#) are published in *Psychological Science*, a journal of the Association for Psychological Science.

“We found no evidence that changes in hormone levels influence the type of men women find attractive,” say lead researcher Benedict C. Jones of the University of Glasgow.

“This study is noteworthy for its scale and scope — previous studies typically examined small samples of women using limited measures,” Jones explains. “With much larger sample sizes and direct measures of hormonal status, we weren’t able to replicate effects of hormones on women’s preferences for masculine faces.”

To address the limitations of previous studies, Jones and coauthors recruited 584 heterosexual women to participate in a series of weekly test sessions. In each session, the participants reported whether they were currently in a romantic relationship and whether they were currently using hormonal

contraceptives. They provided a saliva sample for hormone analyses and completed a task that measured their preferences for different types of male faces.



Example of a feminized male face

In each face-preference task, the participants saw 10 pairs of male faces and selected the face in each pair that they found more attractive, rating how strong their preference was. The two faces in each pair were digitally altered versions of the same photo – one face was altered to have somewhat feminized features and the other was altered to have somewhat masculinized features. To obscure the specific objective of the study, the researchers interspersed these attractiveness judgments among other filler questions.



Example of masculinized male face

As expected, women generally rated the masculinized faces as more attractive than the feminized faces. Preference for the more masculinized faces was also slightly stronger when women judged attractiveness in the context of a short-term relationship as opposed to a long-term relationship.

However, there was no evidence that women's preferences varied according to levels of fertility-related hormones, such as estradiol and progesterone. There was also no association between attractiveness judgments and levels of other potentially influential hormones, such as testosterone and cortisol.

These findings run counter to the hypothesis that sexual selection pressures lead women to prefer more masculine mates, who supposedly have greater genetic "fitness," when they are most fertile and most likely to conceive.

The data also showed that oral contraceptive use did not dampen women's preference for masculine faces, as has been shown previously.

“There has been increasing concern that the birth control pill might disrupt romantic relationships by altering women’s mate preferences, but our findings do not provide evidence of this,” says Jones.

In light of these findings, Jones and coauthors are continuing to investigate whether other fertility-related differences hold up in larger, more robust studies.

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All data and materials have been made publicly available via the [Open Science Framework](#). The complete Open Practices Disclosure is available [online](#). This article has received [badges](#) for Open Data and Open Materials.

Note: The headline of the press release was updated from the original headline “Women’s Preference for Masculine Faces Not Linked With Hormones.”