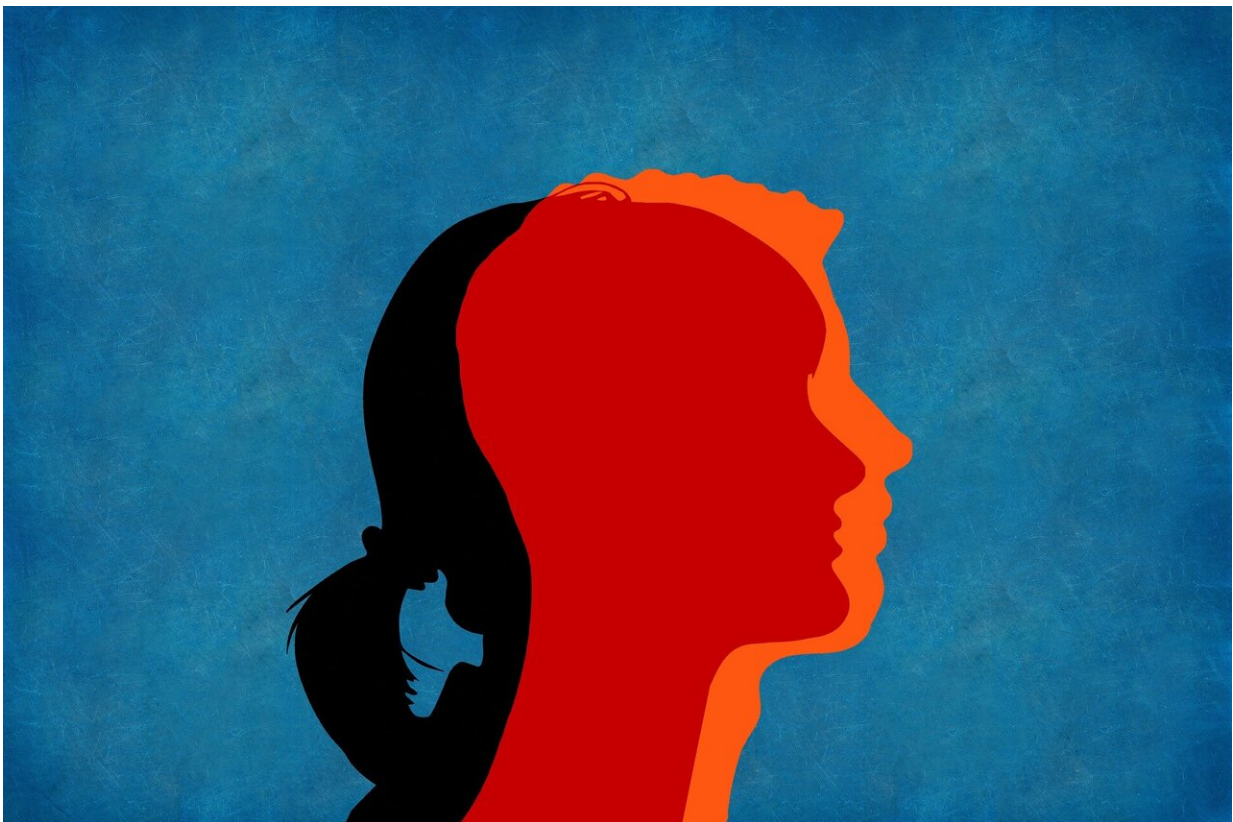


Study finds risk factor for blood clots occurs in more than 10 percent of transgender men using testosterone

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A potentially dangerous side effect of testosterone therapy for transgender men is an increase in red blood cells that can raise the risk of

blood clots, heart attack or stroke, according to a new study published in the Endocrine Society's *Journal of Clinical Endocrinology & Metabolism*.

Gender diverse people make up an estimated 0.6% of the U.S. population and are defined as having [gender identity](#) that is not aligned with their sex recorded at birth. Transgender men often undergo [testosterone therapy](#) as part of their gender-affirming treatment. Erythrocytosis, a condition where your body makes too many [red blood cells](#), is a common side effect of testosterone therapy that can increase the risk of blood clots, [heart attack](#) or stroke.

"Erythrocytosis is common in transgender men treated with testosterone, especially in those who smoke, have high body mass index (BMI) and use testosterone injections," said lead study author Milou Cecilia Madsen, M.D., of the VU University Medical Center Amsterdam in the Netherlands. "A reasonable first step in the care of transgender men with high red blood cells while on testosterone therapy is to advise them to quit smoking, switch injectable testosterone to gel, and if BMI is high, to lose weight."

The researchers analyzed the medical and laboratory records of 1,073 transgender men using testosterone from the Amsterdam Cohort of Gender study (ACOG). Eleven percent of [transgender men](#) using testosterone showed erythrocytosis during 20 years of follow-up. However, less than one percent of these men had very high levels of red blood cells with a high risk of complications.

More information: The manuscript, "Erythrocytosis in Trans Men Using Testosterone: A Long-Term Follow-Up Study on Prevalence and Determinants," was published online, ahead of print.

Provided by The Endocrine Society

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