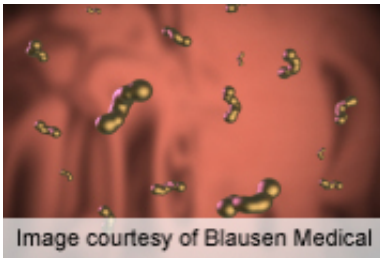


# Axillary hair, deodorant don't affect testosterone absorption

November 12 2014

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(HealthDay)—After application of testosterone solution, serum testosterone concentration is unaffected by the presence or absence of axillary hair or by the use of deodorant/antiperspirant, according to a study published in the November issue of the *Journal of Sexual Medicine*.

David S. Small, Ph.D., from Eli Lilly and Company in Indianapolis, and colleagues conducted an open-label crossover study to examine the effect of deodorant/antiperspirant use and presence or absence of axillary hair on [testosterone](#) solution absorption. Thirty healthy males were randomly allocated to one of four [treatment](#) sequences involving six treatments. Each treatment consisted of the application of one 1.5-mL dose of 2-percent testosterone solution to each axilla; axillae were shaved or unshaved and pretreated or untreated with deodorant/antiperspirant.

The researchers found that across treatments the mean testosterone concentration profiles were similar. The area under the concentration-time curve through 24 and 72 hours and maximum total testosterone concentration ( $C_{\max}$ ) were similar, except for lower  $C_{\max}$  when treatment was applied after deodorant/antiperspirant to shaved versus unshaved axillae; however, this difference was not considered clinically significant. There was low incidence of treatment-emergent adverse events in each treatment arm, with most events being mild.

"Absorption of testosterone 2-percent solution was unaffected by use of deodorant/antiperspirant or by the presence or absence of axillary hair," the authors write.

The study was funded by Eli Lilly; all authors are employees of and minor shareholders in Eli Lilly.

**More information:** [Abstract](#)  
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