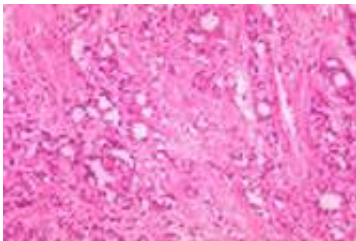


Mushroom powder shows potential in prostate cancer

September 3 2015



(HealthDay)—For patients with biochemically recurrent prostate cancer, treatment with white button mushroom (WBM) powder may reduce prostate-specific antigen (PSA) levels, according to a study published in the Sept. 1 issue of *Cancer*.

Przemyslaw Twardowski, M.D., from the City of Hope National Medical Center in Duarte, Calif., and colleagues examined the effects of WBM powder on serum PSA levels in a study involving 36 [patients](#) with biochemically recurrent [prostate cancer](#) with continuously rising PSA levels. Dose escalation was conducted in cohorts of six.

The researchers observed no cases of dose-limiting toxicity. The overall response rate of PSA was 11 percent. Complete response was observed in two patients receiving 8 and 14 g/day, with declines in their PSA to undetectable levels that persisted for 49 and 30 months. Partial response

was observed in two patients who received 8 and 12 g/day. Thirty-six percent of patients experienced some PSA decrease below baseline after three months of therapy. Compared with nonresponders, patients with complete and partial response had higher levels of baseline interleukin-15; therapy-associated decreases were seen in [myeloid-derived suppressor cells](#).

"Therapy with WBM appears to both impact PSA levels and modulate the biology of biochemically recurrent prostate cancer by decreasing immunosuppressive factors," the authors write.

The study was funded by the Mushroom Growers of Australia and North America.

More information: [Abstract](#)
[Full Text \(subscription or payment may be required\)](#)

Copyright © 2015 [HealthDay](#). All rights reserved.

Citation: Mushroom powder shows potential in prostate cancer (2015, September 3) retrieved 1 May 2023 from <https://medicalxpress.com/news/2015-09-mushroom-powder-potential-prostate-cancer.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--