

Poor pneumonia outcomes tied to overuse of broad-spectrum antibiotics

August 7 2019



Overuse of broad-spectrum antibiotics is associated with increased

mortality and other poor outcomes in adults admitted for community-onset pneumonia, according to a study published in the July 1 issue of the *European Respiratory Journal*.

Brandon J. Webb, M.D., from the Intermountain Medical Center in Murray, Utah, and colleagues evaluated the effect of [broad-spectrum antibiotics](#) on outcomes for 1,995 adults with community-onset pneumonia admitted to the hospital from four U.S. hospital emergency departments.

The researchers note that 39.7 percent of patients received broad-spectrum antibiotics. There was an association between broad-spectrum antibiotics and increased mortality in both the unweighted multivariable model (odds ratio [OR], 3.8) and inverse-probability of treatment weighting analysis (odds ratio, 4.6). Both analyses showed that broad-spectrum [antibiotic use](#) was also associated with longer hospital stay, greater cost, and increased *Clostridioides difficile* infection. Manual review revealed antibiotic-associated events were present in 17.5 percent of mortality cases.

"These results lend additional support for more judicious use of broad-spectrum [antibiotics](#) in community-onset pneumonia," the authors write.

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

Copyright © 2019 [HealthDay](#). All rights reserved.

Citation: Poor pneumonia outcomes tied to overuse of broad-spectrum antibiotics (2019, August 7) retrieved 26 April 2024 from <https://medicalxpress.com/news/2019-08-poor-pneumonia-outcomes-tied-overuse.html>

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.