

Antibiotic Can Reduce Hospitalization, **Prevent Recurrence of Rare Brain Disorder, Analysis Shows**

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(PhysOrg.com) -- A study analysis by researchers at the University of Cincinnati confirms that the antibiotic rifaximin can reduce hospitalizations for patients and prevent the recurrence of a certain brain disorder caused by liver failure.

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These findings were reported in the March 25, 2010, edition of the New England Journal of Medicine.

Guy Neff, MD, lead investigator on the study locally experience recurrence of HE. and associate professor of medicine, hepatology and transplant, with colleagues in the digestive diseases division, found that rifaximin significantly reduced the risk of hepatic encephalopathy-related hospitalizations when compared to a placebo drug.

In addition, over a six-month period, treatment with rifaximin helped patients maintain remission for hepatic encephalophaty more effectively than the placebo.

Hepatic encephalopathy, or HE, is a potentially reversible neuropsychiatric abnormality that can result due to liver failure.

"When there is severe damage to the liver, toxic substances that are normally removed by the liver accumulate in the blood and impair the brain," says Neff, director of liver transplantation and a specialist with UC Health. "Signs of HE can include impaired cognition, asterixis—or a wrist tremor—and Provided by University of Cincinnati a decreased level of consciousness including coma, cerebral edema and possibly death."

Rifaximin is approved to treat traveler's diarrhea. On March 24, 2010, the U.S. Food and Drug Administration also approved this drug for the unrestricted treatment of HE-the first new treatment for the disorder in over 30 years.

placebo-controlled study of 299 patients with a were not told whether they were receiving/giving rifaximin or the placebo drug.

They found that patients who took rifaximin as opposed to the placebo had about 50 percent less risk of being hospitalized; also, approximately 58 percent of patients given the drug did not

"This new data solidly supports the clinical efficacy of rifaximin in reducing the risk of HE-related hospitalization and its ability to prevent patients from redeveloping the illness," Neff says. "As demonstrated in previously published pharmacoeconomic data, reducing recurrent HE events may reduce the need for HE-related hospitalization, thereby potentially decreasing the costs of care, and improving patients' quality of life."

Neff has received honoraria from the makers of rifaximin.

More information: Study paper: content.neim.org/cgi/reprint/362/12/1071.pdf



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