

New Computer-Based Tool Helps Doctors More Accurately Predict Outcomes for Patients with COPD, Study Finds

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SALT LAKE CITY, UT, USA , May 21, 2019 /EINPresswire.com/ -- Are electronic health records and computer calculations a better, more accurate way to predict clinical outcomes for patients with chronic obstructive pulmonary disease?

According to the results of a new study by researchers at Intermountain Healthcare in Salt Lake City, the answer is yes.

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About 16 million Americans have been diagnosed with COPD, though the Centers for Disease Control and Prevention believe millions more have it but haven't yet been diagnosed. It's a leading cause of death in the U.S., and 3.2 million people die of COPD worldwide every year.

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*Dr. Benjamin Horne,
Intermountain Healthcare*

“The benefit of a calculated, objective score for physicians is that they can look at the score and get a quantified, repeatable value that will indicate where the patient is as far as their health,” said Benjamin D. Horne, PhD, director of cardiovascular and genetic epidemiology at Intermountain Healthcare. “That can help indicate to a clinician whether they should give the standard of care or if they need to be a little bit more aggressive.”

“Current risk scores help guide care, but the scores that are typically used are easy to remember and based on simple, often inexact calculations you can do in your head,” Horne said. “They're not terribly useful and they don't do all that

well at predicting a prognosis.”

The Summit Score, the name of the electronically-calculated system evaluated in the study, uses

patients' electronic medical records to take a range of risk factors into account, including age, body mass index, smoking history, prior COPD hospitalization, history of heart attack, history of heart failure, diagnosis of diabetes, and use of antithrombotic medications such as clopidogrel, prasugrel, or ticagrelor and antiarrhythmic medications such as flecainide, sotalol, or procainamide.

The Summit Score predicts patients' risk for things like a sudden exacerbation of COPD symptoms, repeat hospital visits, and mortality on a scale of 0 to 30. On the scale, 0 to 13 is low risk, 14 to 19 is moderate risk, and 20 to 30 is high risk. The score was validated twice: first from a set over 16,000 patients enrolled in the SUMMIT trial; and second on three different groups of patients (totaling almost 44,000 people) at Intermountain Healthcare.

Results of the study will be presented at the American Thoracic Society's international conference in Dallas on Monday, May 20.

Dr. Horne believes the Summit Score will help doctors better know how to plan and administer patient care. "Instead of using a risk score that doesn't work all that well, you can use a risk score that's consistently better at predicting outcomes where the computer does the work for you," he said.

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