

Idiopathic pulmonary fibrosis algorithm performs poorly

June 14 2017



(HealthDay)—The traditional idiopathic pulmonary fibrosis (IPF)

algorithm performs poorly, with positive predictive value of 42.2 percent and sensitivity of 55.6 percent, according to a study published in the June 1 issue of the *Annals of the American Thoracic Society*.

Brett Ley, M.D., from the University of California in San Francisco, and colleagues identified potential cases of IPF in the Kaiser Permanente Northern California adult population from 2000 to 2014 using the traditional IPF algorithm. A subset of 150 cases were validated by expert medical record and chest computed tomography review. To optimize [positive predictive value](#), a modified IPF algorithm was derived and validated.

The researchers identified 2,608 cases among 5,389,627 at-risk adults using the traditional IPF algorithm. The annual incidence was 6.8/100,000 person-years, and was elevated for patients who were older, male, and white. For the IPF algorithm the positive predictive value was 42.2 percent, and the sensitivity was 55.6 percent. The estimated corrected incidence was 5.6/100,000 person-years. Compared with the traditional algorithm, the modified IPF algorithm improved positive predictive value but reduced sensitivity.

"A modification of the IPF algorithm may be useful for future population-based studies of IPF," the authors write.

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

Copyright © 2017 [HealthDay](#). All rights reserved.

Citation: Idiopathic pulmonary fibrosis algorithm performs poorly (2017, June 14) retrieved 28 April 2024 from
<https://medicalxpress.com/news/2017-06-idiopathic-pulmonary-fibrosis-algorithm-poorly.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.