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Novel algorithm can classify chronic rhinosinusitis

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(HealthDay)—A novel scoring system and algorithm can be used to classify eosinophilic chronic rhinosinusitis (ECRS) by disease severity, according to a study published online May 6 in *Allergy*.

Takahiro Tokunaga, M.D., from the University of Fukui in Japan, and colleagues conducted a retrospective study to create diagnostic criteria for ECRS. Data were included from 1,716 patients treated with endoscopic sinus surgery (ESS).

To diagnose ECRS, the scoring system evaluated unilateral or bilateral disease, presence of nasal polyps, blood eosinophilia, and dominant shadow of ethmoid sinuses in computed tomography (CT) scans. The researchers found that the cutoff value of the score was 11 points, with sensitivity and specificity of 83 and 66 percent, respectively. Significant correlations with recurrence were seen for blood eosinophilia (>5

percent), CT scan-detected ethmoid sinus disease, bronchial asthma, and aspirin and nonsteroidal anti-inflammatory drug intolerance.

"It is notable that this algorithm may give useful information to clinicians in the refractoriness of CRS before ESS or biopsy," the authors write.

More information: Abstract
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