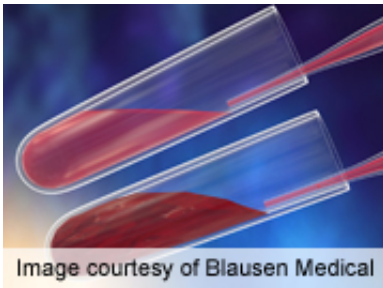


# Biomarkers ID disease activity in elderly with low back pain

November 13 2014

---



(HealthDay)—Serum biomarkers can be used for assessment of active disease in older patients with low back pain, according to a study published online Nov. 3 in the *Journal of the American Geriatrics Society*.

Gwendolyn A. Sowa, M.D., Ph.D., from the University of Pittsburgh, and colleagues conducted a single-center cross-sectional cohort study involving 43 individuals aged 60 years and older with axial low back pain. The authors assessed the correlation between serum biomarkers and self-reported pain intensity and pain-related function.

The researchers observed no significant correlations between composite magnetic resonance imaging (MRI) measurements and pain or pain-related function. In addition to the explanatory power of MRI-based results, associations with pain and pain-related function were seen for

basal levels and changes in serum biomarkers in response to activity, particularly neuropeptide Y and RANTES (regulated on activation, normal T cell expressed and secreted).

"Serum biomarkers may be a metric for assessment of active disease in older adults, in whom imaging changes are ubiquitous," the authors write. "In addition, changing levels of biomarkers in response to activity suggests that they may be useful as metrics to measure treatment responses in future studies and may reflect potential targets for use in designing personalized treatment for [older adults](#) with [low back pain](#)."

Several authors disclosed financial ties to the pharmaceutical and medical device industries.

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

Copyright © 2014 [HealthDay](#). All rights reserved.

Citation: Biomarkers ID disease activity in elderly with low back pain (2014, November 13)  
retrieved 2 May 2024 from  
<https://medicalxpress.com/news/2014-11-biomarkers-id-disease-elderly-pain.html>

<p>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.</p>
--