

Ultrasound echo intensity is potential frailty biomarker

21 September 2017



accurately testing interventions performed to prevent it," the authors write.

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

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

(HealthDay)—Higher levels of echo intensity (EI) on ultrasound are associated with lower levels of muscle strength (MS) and greater frailty in the elderly, according to a study published online Sept. 7 in the *Journal of the American Geriatrics Society*.

Rebeca Miron Mombiola, M.D., from Universidad de Valencia/INCLIVA in Spain, and colleagues evaluated whether [muscle](#) quality based on EI is associated with MS and risk of [frailty](#) in elderly outpatients (aged 60 to 90 years). In total, 112 individuals participated, with those aged 20 to 59 years serving as controls.

The researchers observed a significant negative correlation between EI and MS (P

"These results, although needing to be replicated in larger and more-diverse populations, suggest that EI obtained using ultrasound images might be used as noninvasive imaging biomarker of frailty in [elderly adults](#) and opens the possibility of

APA citation: Ultrasound echo intensity is potential frailty biomarker (2017, September 21) retrieved 21 April 2021 from <https://medicalxpress.com/news/2017-09-ultrasound-echo-intensity-potential-frailty.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.