

## Frailty is a factor in higher mortality for women awaiting liver transplants

## December 30 2020

Women awaiting liver transplants in the United States are known to be about one-third more likely than men to become too ill to undergo surgery or die before receiving a liver. Now a study headed by UC San Francisco and Columbia University highlights the role that frailty plays in this gender gap.

The study followed 1,405 patients with cirrhosis, of whom 41 percent were women, awaiting <u>liver transplantation</u> at nine transplant centers in the United States. The men, whose ages ranged from 49 to 63, were more likely to have chronic hepatitis C and alcoholic liver disease (27 percent versus 22, and 33 percent versus 19 percent). The women, whose ages ranged from 50 to 63, were more likely to have <u>non-alcoholic fatty liver disease</u> and autoimmune cholestatic liver disease (23 percent versus 16 percent, and 23 percent versus 9 percent).

The researchers, led by first author Jennifer Lai, MD, MBA, a general and transplant hepatologist at the UCSF Department of Medicine, found that both genders had similar levels of liver disease severity, but fewer women had <a href="https://doi.org/10.2016/journal.com/high-blood-pressure">high-blood-pressure</a> and coronary artery disease. Despite this, they were significantly frailer according to testing using the Liver Frailty Index (LFI), which showed weaker gender-adjusted grip, worse balance and that they were slower to stand up from a sitting position.

"This is the first time that frailty has been identified and quantified as a risk factor among women with cirrhosis who are waiting for <u>liver</u> <u>transplants</u>," said Lai. "The importance of this finding is that this gender



gap can potentially be mitigated through early interventions as basic as providing adequate caloric and protein intake and engaging in regular exercise. Clinicians can advise women on diet and exercise interventions that build strength." These steps may be helpful for women undergoing other organ transplants, since frailty may play a role there too, the authors noted.

While the causes of frailty were not explored, Lai said that it is generally attributed to physical inactivity, chronic liver failure and <u>poor diet</u>.

Over the course of the study, the women had a 36 percent higher risk of waitlist mortality, which was defined as death or delisting for being too sick for transplantation. After adjusting for LFI scores and other variables, the researchers concluded that frailty accounted for 13 percent of the gender gap in waitlist mortality. While the study does not address the other factors that make up for the gender disparity, the authors note differences in kidney function and the higher percentage of male donors, who may be poor matches for women given their smaller stature.

The greatest significance of the study, said Lai, is at the level of the population of liver transplant patients in the United States.

"The waitlist mortality gender gap has persisted for 15 years across the entire U.S. liver transplant system and will continue to persist if it is not recognized," she said. Fortunately, "now that it has been recognized, it can be addressed."

Provided by University of California, San Francisco

Citation: Frailty is a factor in higher mortality for women awaiting liver transplants (2020, December 30) retrieved 18 July 2024 from <a href="https://medicalxpress.com/news/2020-12-frailty-factor-higher-mortality-women.html">https://medicalxpress.com/news/2020-12-frailty-factor-higher-mortality-women.html</a>



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.