

More people die when hospital bed shortages force patients out

20 May 2020, by Steinar Brandslet



Many older people break a hip indoors, and hip operations are common. Credit: Shutterstock, NTB scanpix

The pressure to send more patients home increases when hospital beds are in short supply.

For example, you have a greater chance of being discharged on a Friday or the day before a holiday. The chance of being discharged on days when the hospital is full due to <a href="https://high.ncbi.nlm.ncbi.nl

"Patients who are operated on for hip fractures have a higher risk of dying if they are discharged from the hospital early for space reasons," says Professor Johan Håkon Bjørngaard at NTNU's Department of Public Health and Nursing.

A recent study of 60,000 of these patients over 70 years in Norway yielded this finding. The study was an <u>interdisciplinary collaboration</u> between researchers from St. Olavs Hospital and NTNU.

Common surgery for hip fractures

Each year, 8,000 to 10,000 patients undergo hip fracture surgery in Norway. Some newly operated patients are sent home quickly, while others need

longer stays.

"The risk of death for these patients is high. Around 13% of them died within the first 60 days following their surgery. During the first year, some 27% died," says Dr. Lars Gunnar Johnsen at St. Olav's Hospital. He is also a researcher at NTNU's Department of Neuromedicine and Movement Science.

The difference in the 60-day mortality rate between patients discharged for space reasons and other patients is around four percentage points.

The <u>recovery time</u> in Norwegian hospitals for patients following hip surgery has been declining for several years. Reduced bed time due to better treatment is good, but reduced bed time due to pressure on bed capacity can be negative.

"The problem is that it's really difficult to separate these reasons from each other. We've tried to focus the effect of hasty discharges, but we have to account for several assumptions in the analysis," says Bjørngaard.

The average age of the hip patients is 84 years old, and they are often suffering from more than one chronic illness. This is a very vulnerable group.

Hard to figure out

"We had to figure out how to measure early discharges," says postdoc Sara Marie Nilsen of the Regional Center for Health Care Improvement (RSHU) at St. Olavs Hospital.

Nilsen and researcher Andreas Asheim from RSHU and the Department of Mathematical Sciences helped to come up with the model for identifying situations where patients were sent home prematurely for space reasons.

"It's difficult to distinguish between patients who



were too sick to be sent home and those who were advise each other to find out what is best for actually ready to be discharged," Asheim says.

You can't just compare patients with short and long "At St. Olavs, we have teams that include recovery times. The mortality rate won't increase for pharmacists, orthopedic surgeons, geriatric doctors people who recover quickly, and so they can be discharged earlier for that reason.

"We used days when there was a high discharge probability to study whether early discharge led to higher mortality," says Nilsen.

The close association with professionals at St. Olavs Hospital has been valuable for the research team in its efforts to create the best possible model. fields.

says Johnsen.

patients.

Need to know more

most comprehensive solution is," Bjørngaard says. He notes that it's not always a given that a hospital bed with a post-op patient is more expensive than a

and physiotherapists. This interdisciplinary

health care services simply don't have the

treatment model is called orthogeriatrics and provides much better professional assessments,"

We can't expect local hospitals and rehabilitation centers to have access to groups like this. Local

resources to have specialists in so many different

Having greater expertise in hospitals to assess which patients are ready for discharge is another factor.

"With interdisciplinary treatment that includes geriatric expertise, we can provide better treatment people can go home instead of to an institution," says Johnsen.

More information: Sara Marie Nilsen et al.

An Analysis of 60,000 Norwegian Hip Fracture **Patients**

, Clinical Epidemiology (2020). DOI: 10.2147/CLEP.S237060

Provided by Norwegian University of Science and Technology

Do hospitals need more beds?

Bjørngaard wonders whether hospitals should have "We need to have a better idea about what the a greater capacity to keep some patients longer.

"In 2016, half of the patients had bed rest of five days or less after hip fracture surgery. In 2010, only municipal bed. a quarter of the patients were discharged after five days," says Johnsen.

Patients now spend a much shorter time in the hospital. Much of this is due to the Norwegian Care Coordination Reform that was launched in 2012. This reform aimed to divide responsibility more effectively between specialists and municipal health and rehabilitation—and we can know who is ready services. A large part of the responsibility for pre-op for discharge with greater accuracy. Then more patients was shifted to the municipalities.

Improved treatment may be part of the reason for quicker discharges, but the need to free up space in hospitals is still an important factor, not least because the coordination reform has led to many of Hospitals' Discharge Tendency and Risk of Death the hospitals reducing the number of beds they have.

Teams coordinate at the hospitals

Now, skilled professionals are employed in the primary health service system. For many patients, an early discharge with follow-up care in the municipality is the right decision.

But there is a lot of expertise at a hospital, where interdisciplinary groups can work together and

2/3



APA citation: More people die when hospital bed shortages force patients out (2020, May 20) retrieved 16 September 2022 from https://medicalxpress.com/news/2020-05-people-die-hospital-bed-shortages.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.