

# Study warns on surgery risk for frail patients

*Mortality rates 30 days after surgery\**



## Non-frail patients

Low-risk surgeries:

**0.22%**

Moderate-risk surgeries:

**0.91%**

High-risk surgeries:

**1.89%**

## Frail patients

Low-risk surgeries:

**1.55%**

Moderate-risk surgeries:

**5.13%**

High-risk surgeries:

**6.98%**

## Very frail patients

Low-risk surgeries:

**10.34%**

Moderate-risk surgeries:

**18.74%**

High-risk surgeries:

**22.26%**

\* A surgery mortality rate of 1% is usually considered high-risk. From "[Association of preoperative patient frailty and operative stress with postoperative mortality](#)," *JAMA Surgery*, Nov. 13, 2019.