Is current preoperative frailty assessment adequate?

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SUMMARY

Preoperative frailty predicts adverse postoperative outcomes. Recommendations for preoperative assessment of elderly patients include performing a frailty assessment. Despite the advantages of incorporating frailty assessment into surgical settings, there is limited research on surgical care professionals’ perception and use of frailty assessment for perioperative care. We surveyed local health care employees to assess their attitudes toward and practices for frail patients. Nurses and allied health professionals were more likely than surgeons to agree frailty should play a role in planning a patient’s care. Lack of knowledge about frailty issues was a prominent barrier to the use of frailty assessments in practice, despite clinicians understanding that frailty affects their patients’ outcomes. Results of this survey suggest further training in frailty issues and the use of frailty assessment instruments is necessary and could improve the uptake of such tools for perioperative care planning.

As the baby boom population ages, increasing numbers of patients aged 65 years and older are presenting with surgical disease. They are at increased risk for prolonged hospital admission.1 Although age is commonly used to assess surgical risk, it has been well established that preoperative frailty is more accurate at predicting postoperative outcomes.1 Frailty is a multisystem syndrome of low physiologic reserves resulting in increased risk for adverse events.2 It is increasingly recognized as an important determinant of postoperative complications and recovery. Frailty screening and the implementation of early interventions has been associated with preserved autonomy and reduced adverse events. Well-designed studies examining comprehensive geriatric assessment among surgical patients have shown improved outcomes, mostly in orthogeriatric populations. A systematic review by the Cochrane collaboration is ongoing to assess the robustness of these findings.3 Recommendations developed by the American College of Surgeons National Surgical Quality Improvement Program and the American Geriatrics Society4 suggest the use of multiple preoperative assessments, including preoperative assessment of each patient for frailty. Despite mounting evidence, frailty assessment is not routine surgical practice,5 and it remains unclear why.

Frailty assessment is not currently well taught to surgeons or surgical nursing staff, and little is known about interdisciplinary surgical health care providers’ perception of frailty or its role in clinical assessment. We have recently undertaken a survey of our surgical staff at the University of Alberta Hospital to assess their beliefs about frailty and the barriers to frailty assessment, and we compared the perspectives across health care professions. The survey was distributed to all health care providers involved in the care of general surgery patients at our institution. It assessed the attitudes of 3 subgroups: surgeons, nurses and allied health professionals.6

Previous research has found that frailty assessment and management improves patient outcomes in both medical and surgical patients; however, it continues to have low uptake in most surgical settings. We found the highest
uptake among allied health practitioners; frailty assessment is less frequent outside of allied health professionals. Specifically, surgeons were less likely than both allied health professionals and nurses to use frailty in guiding patient care. A qualitative investigation by Age UK found frailty is viewed as something surgeons “know when they see,” yet numerous studies have reported that perceived frailty varies individually and is an inadequate proxy for measured frailty. This suggests that although health care professionals, particularly surgeons, acknowledge that frailty is an important factor in patients’ outcomes, they are overly reliant on their “gut” impression of a patient’s frailty and do not screen for or manage patients based on their frailty. Furthermore, we identified 4 key barriers to frailty and do not screen for or manage patients based on frailty. The results were consistent with predicted attitudes of the health professions. There was strong agreement, however, for most items across the health professions, and the results were consistent with predicted attitudes of each profession.

It is clear that the use of formal frailty assessment tools has not been widely adopted in practice. Much of this may be due to inadequate education surrounding the effect of frailty on outcomes and tools to permit rapid assessment, particularly for surgeons. Creating a program to educate surgeons about the importance of frailty assessment — such as how it can improve their patients’ care and, most importantly, how to perform a rapid validated assessment — is key to improving uptake. Further research of comprehensive geriatric assessment for surgical patients should also be performed to determine if it is effective outside of orthogeriatric patient populations. Addressing barriers to frailty assessment and high-quality care for frail patients could substantially improve care and postoperative outcomes for this vulnerable population.

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