National organizations, such as the US Preventive Services Task Force (USPSTF), have published recommendations for screening adults for a variety of diseases, based on a consideration of whether screening will lead to improved outcomes. Many of the recommendations are aimed at diseases that are common in older adults. While the USPSTF and other organizations do an excellent job of elucidating when and how to perform screening, less attention is given to when screening should stop. Little evidence and few recommendations are available on which to base decisions about screening and other preventive care in older adults, particularly for those over age 70. The most current information is shown in Table 1.

When choosing to screen for a particular disease, several factors need to be considered. First, the disease must be sufficiently common and serious to present a problem to individuals and to society. Second, there must be a latent or asymptomatic stage during which treatment will be of more benefit than after symptoms occur. Third, there must be a sufficiently accurate, safe, and cost-effective screening test that is acceptable to patients.

When applying screening tests to older adults, three other factors must also be considered: life expectancy, the ability to undergo the screening test and any ensuing treatments, and, finally, personal preference.

Life Expectancy

Average life expectancy in the US is now about 78 years. Individuals age at different rates, however, leading to considerable variability in survival, even at advanced ages. Vigorous older adults may benefit from many of the standard available screening tests, whereas those with multiple co-morbidities might not live long enough to profit from screening. It is important to note that the average life expectancy of nursing home residents is less than 3 years. Therefore, screening in nursing home residents should be individualized rather than routine.

Because life expectancy is not solely a function of chronologic age, many experts have suggested calculating an estimated life expectancy as a function of health, or “physiologic age.” One easy-to-use method adjusts chronologic to physiologic age by using patients’ ratings of their global health status. Patients are asked: “How is your health – excellent, good, fair, or poor?” Depending on the response, physiologic age can be determined from Table 2 and the results used to estimate life expectancy (Table 3). Other approaches expectancy have use gait speed or self-reported functional status.

Ability to Participate in Screening and Treatments

Some screening tests represent a challenge for older adults with functional limitations. For example, DEXA testing for osteoporosis may be difficult for individuals with mobility issues or those who cannot lie flat. Patients with dementia may be uncooperative and unwilling to participate in the testing procedure. All aspects of patients’ health should be considered prior to ordering a screening test.

Similarly, if a screening test detects a disease whose treatment presents an unacceptable burden to a patient, screening may not be warranted. Information about potential treatments should be discussed beforehand.

Personal Preferences

Personal preferences are an essential part of decisions about screening and most patients indicate the would continue screening throughout their life, often in spite of a clinician’s recommendation against screening. The American Geriatrics Society recommends that older patients should have access to screening tests, even if they do not plan to pursue treatment of a condition that is found. They can still incorporate the test results into planning for their remaining life course, and they should not be denied access to desired testing solely because the test results will not change management.

TIPS ABOUT SCREENING TEST FOR OLDER ADULTS

- Avoid screening tests for people whose life expectancy is so short that they are likely to die before benefiting from treating the condition that would be detected by screening.
- Estimate life expectancy from physiologic age, not chronologic age (Tables 2 and 3).
- Order screening tests for nursing-home patients on an individual basis, as their average life expectancy is <3 yrs.
Interprofessional care improves the outcomes of older adults with complex health problems

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