Acute care assessment of older adults living with frailty

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What you need to know

- Older people living with frailty are frequent users of acute care services
- The approach to assessment of frail older adults is different to that of a younger patient
- Assess older adults presenting to acute care for frailty syndromes (falls, immobility, incontinence, confusion), and get collateral history from caregivers
- Establish the priorities and goals for the individual to ensure that investigations and treatment accord with what matters to them and their families

Older adults living with frailty are frequent users of emergency services. Acute care settings are stressful for patients, caregivers, and staff. The focus on prompt assessment, rapid decision making, and constant patient flow make the environment less suited to the older adult. We suggest an approach for clinicians to assess older adults living with frailty who present to acute care settings such as emergency departments, medical units, or out of hours general practice. Our approach is evidence based where possible but mindful of time and resource constraints.¹ ²

We focus on assessment as early recognition of frailty and accompanying problems facilitates appropriate onward referral and management.

What is frailty and why does it matter?

Frailty is something all clinicians recognise, but there is little consensus on its definition.³ It can be defined by characteristics such as gait speed and grip strength,⁴ or described as an accumulation of age related diagnoses, symptoms and problems.⁵ Both models share a core concept of increased risk of adverse outcomes from illness.

Observational registries suggest that, in general, older adults tend to be more unwell on presentation, have longer hospital stays, and poorer outcomes.⁶ ⁷ A systematic review (26 studies) of older adults discharged from emergency departments reported readmission rates as high as 40% at 6 months.⁸ These readmissions may represent unresolved medical issues, failure of community support, or both. Regardless, data suggest the potential to improve outcomes following acute presentations. There are instruments that screen for frailty and identify those at risk of poor outcomes. Systematic reviews note that these instruments have limited prognostic accuracy and are not always feasible for use in acute care.⁹ ¹⁰ However, the Rockwood Frailty Scale¹¹ may help triage patients requiring specialist older adult care. If nothing else, the tools act as a prompt for the clinician to ask: do I need to tailor my approach and does this person need specialist, multidisciplinary input?¹²

How does the approach to assessment differ in frailty?

A broader approach is needed for diagnosis in patients with frailty (box 1). Presentations of acute illness tend to be non-specific, treatments may need to be modified, and prognosis will differ. Patients with frailty often have several issues requiring assessment, against a background of complex comorbidity and social support. Acute care is often not well suited to older adults with cognitive or sensory problems. If possible, perform assessments in a quiet (or quieter) room away from the busy main assessment area. Talk at a speed and volume that allows the person to understand and involve caregivers as necessary. Sometimes simple measures can make the consultation easier for both clinician and patient, for example, does the patient have a hearing aid and is it turned on?¹³

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Box 1: Advantages of a tailored assessment of older adults

**Diagnostic**—In older adults, disease often presents non-specifically. Screening for the various frailty syndromes (falls, incontinence, confusion) is likely to have a high yield

**Prognostic**—Screening for frailty syndromes can tell you how the person may respond to treatment, or about their future healthcare needs. For example, a history of falling is one of the strongest predictors of future (preventable) falls

**Legal**—Cognitive screening tests can inform an assessment of the patient’s capacity to consent to medical intervention

**Documentary monitoring**—A baseline assessment for pressure sores, bruising consistent with non-accidental injury, oropharyngeal dysphagia, etc, may help assess for change in the patient and will be useful if there is a complaint or investigation

**Satisfaction**—Both patients and staff can be dissatisfied with how older adults are managed in acute care; a tailored approach, which is age appropriate, may be more clinically useful and ultimately more satisfying for the practitioner.

Figures 1 and 2 provide key aspects to cover on initial evaluation in the acute care setting. These assessments do not need to be completed in one session and assessment should be shared between doctors, nurses, and other members of the multidisciplinary team. Some of the finer details listed in table 1 can be obtained after the initial assessment.

Once frailty is recognised, onward referral for comprehensive geriatric assessment (CGA) should be considered. CGA is a specialist, multidimensional and interdisciplinary process “focused on determining a person’s medical, psychosocial, and functional capabilities in order to develop a coordinated and integrated plan for treatment and follow-up.”

Findings from a systematic review of 29 randomised controlled trials support the efficacy of CGA in dedicated older adult wards. CGA in the emergency department is less established, although there are reports of successful implementation.

Having multidisciplinary staff trained to meet the care needs of older adults in age appropriate acute care environments is associated with better outcomes. Full CGA may not be feasible in certain acute settings because of time or lack of a specialist team. However, clinicians in acute care should be able to recognise frailty and initiate onward referral to specialist teams. Delivery of CGA is not confined to secondary care. The initial assessment should determine if the patient is suitable for discharge to community, multidisciplinary teams who can continue assessment and rehabilitation.

What should I cover on initial evaluation?

The initial description of symptoms (before it is altered by repeated telling) is crucial and should be recorded verbatim. The initial description of symptoms (before it is altered by repeated telling) is crucial and should be recorded verbatim.

Look for underlying problems that precipitated presentation and will be useful if there is a complaint or investigation.

We would recommend, as a minimum, assessing for

**Frailty syndromes**—Sometimes the cause of the older adult’s presentation is obvious, but often they tend not to present with textbook signs and symptoms. Rather, presentation with the frailty syndromes, namely, falls, incontinence, immobility and/or confusion is the final common pathway of multiple disease presentations. It can be useful to ask yourself “if this person were 20 would I have expected them to fall/become incontinent/become confused?” Frailty is rarely the sole reason for admission; an underlying medical problem is usually the precipitant to presentation. The use of labels such as “social admission” with no attempt at further assessment is unhelpful and potentially dangerous.

**Medication**—Polypharmacy is the norm in people living with frailty and adverse effects of medications are a common reason for hospital admission. Obtain an accurate medication list, including over-the-counter preparations, and ask about compliance with these treatments. Tools are available to highlight medications that are potentially inappropriate or that should be prioritised in frailty.

**Function**—Acute illness may present as a change in function, for example deterioration in mobility or difficulty with self care and toileting. Assessment as part of general history taking is usually sufficient, although short structured assessments of function are available. Much can be gained from assessing the patient’s gait so, if safe to do so, observe the patient mobilising.

Functional ability is often the criterion that determines whether a patient can be discharged home or if they require admission for CGA. Assessment by allied health professionals in the acute care setting may be needed before discharge.

**Cognition**—Assessing cognition in acute illness is a trade off between accuracy and feasibility. Unstructured, subjective assessment misses important problems, while detailed, neuropsychological assessments are not practical. Brief screening tools can assess general cognition and delirium, for example the 4 A Test is accurate and feasible for use in acute illness. Even with specific tests, delirium is easily missed. If an older adult appears drowsy, they may have delirium. In addition to testing a patient’s cognition at time of presentation, it is also often useful to determine change in cognition over time. Short questionnaires and single questions asked of someone that knows the patient can capture this cognitive trajectory.

**Investigations**—Single measures such as temperature, blood pressure, and pulse may be misleading in frailty. Trends are typically more useful. Test for orthostatic hypotension as it is common and often associated with falls. Routine urinalysis is not sensitive nor specific for diagnosing disease in older adults.

**Collateral history and caregivers**—A frequent challenge in assessing older adults is judging how different they are from baseline. Contacting family, carers, or any other collateral information sources takes time initially, but may avoid an unnecessary admission or highlight functional and cognitive change that triggers further assessment. Accessing medical records, prescriptions, and phone calls to primary care can give further information that will make the assessment more efficient.

Caregivers commonly report that their knowledge of the patient is not given sufficient attention in the acute care setting. They can often provide information on a patient’s frailty history, i.e, the functional impact of illness over time. In some countries, carers can apply for legal powers to assist with healthcare decisions. If so, ask if anyone has such powers if the patient may be unable to make informed choices.

Ask the carer how they are doing. If care givers are struggling, offer access to agencies that can help. Providing care affects psychological health. Some screening tools for assessing care giver burden are available.

**Establish the person’s priorities**—Early in the process, try to establish the person’s priorities. The emergency medicine mantra of “treat first what kills first,” may be inappropriate for people living with frailty. To avoid death may not be the primary concern and invasive treatments may conflict with priorities such as remaining independent and living or dying at home.

Helpful questions include: “What matters to you and what
information do you need?” These questions ensure a focus on the person and not just their presenting symptoms. Ask the person and their family if an advance care plan exists and if they have specific wishes about their care that should be recorded. The process of advance care planning is helpful in frailty where changes in health status are expected. It includes discussion and documentation of how clinical deterioration should be handled, for example wishes around cardiopulmonary resuscitation.

**Sources and selection criteria**

This review is based on the authors’ clinical and research experience and is informed by a search of published literature. We searched electronic databases (Medline and Embase) from 2014 to January 2018, using the following keywords: “aged” OR “aged, over 60,” “geriatric assessment,” and “acute” and selected those titles pertinent to the acute care settings. We searched key reference works and national and international guidelines for relevant papers, and gave particular attention to systematic reviews. To ensure that our suggestions are credible and practical, draft versions were reviewed by older adults and staff from several acute care settings across the UK (see acknowledgments).

**Questions for future research**

- Which screening tools have greatest utility for initial assessment and further management of frail older adults?
- How can older adult screening assessments be implemented in acute care to increase uptake?
- What outcomes are important to older adults presenting to acute care services and how can these be measured?
- Can routine screening of caregivers for psychological problems improve care outcomes?

**Additional educational resources**

The following resources are all free, although they require registration to access certain content.

- **Geriatric Emergency Medicine (GEM).** This North American group provides podcast learning and discussion materials around older adults and the emergency department. [https://gempodcast.com/](https://gempodcast.com/)
- **e-Learning on Geriatric Emergency Medicine.** This Canadian web resource offers tutorials and other learning materials on older adults and emergency care. [https://geri-em.com/](https://geri-em.com/)
- **The Royal College of Emergency Medicine has a regular podcast with occasional materials on older adults, eg, this podcast on cognitive assessment:** [https://www.rcemlearning.co.uk/foamed/january-2018/](https://www.rcemlearning.co.uk/foamed/january-2018/)
- **The British Geriatric Society has a variety of online resources around older adults in acute care, eg, Quality Care for Older People with Urgent & Emergency Care Needs 2012.** [http://www.bgs.org.uk/campaigns/silverbook/silver_book_complete.pdf](http://www.bgs.org.uk/campaigns/silverbook/silver_book_complete.pdf)

**Information resources for patients**

Alzheimer’s Society provides information on navigating healthcare systems if you or someone you look after has dementia: Help with Dementia Care: [https://www.alzheimers.org.uk/info/20046/help_with_dementia_care](https://www.alzheimers.org.uk/info/20046/help_with_dementia_care)

Age UK provides a variety of free resources, including general information and advice: [https://www.ageuk.org.uk/information-advice/](https://www.ageuk.org.uk/information-advice/) and specialist reports, eg, reports of older adults’ experiences of hospital admission and readmission: [https://www.ageuk.org.uk/globalassets/age-uk/documents/information-guides/ageuk07_your_hospital_stay_inf.pdf](https://www.ageuk.org.uk/globalassets/age-uk/documents/information-guides/ageuk07_your_hospital_stay_inf.pdf) and [https://www.ageuk.org.uk/documents/en-gb/for-professionals/research/geriatric_readmission_older_peoples_experiences.pdf?dtrk=true](https://www.ageuk.org.uk/documents/en-gb/for-professionals/research/geriatric_readmission_older_peoples_experiences.pdf?dtrk=true)

**Competing interests**

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31 Heldweg MLA, Jorge PFP, Lightenberg JMJ, Tor Maatsen JC, Harms MPM. Orthostatic blood pressure measurements are often overlooked during the initial evaluation of syncope in the emergency department. Blood Press Monit 2018;23:294-6.10.1610


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### Additional physical assessment considerations for older adults with frailty in acute care

<table>
<thead>
<tr>
<th>What should I do?</th>
<th>Why may this help?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensure hearing aids are worn, turned on, and have batteries.</td>
<td>Sensory problems are common and represent modifiable risk factors for delirium—simple actions such as these can minimise impairments</td>
</tr>
<tr>
<td>Ensure glasses are worn</td>
<td>Inspection of the oropharynx may reveal barriers to oral diet such as candidiasis, poor dentition, or ill-fitting dentures.</td>
</tr>
<tr>
<td>Inspect the oropharynx.</td>
<td>Deterioration in swallow can accompany systemic disease. A bedside water swallow screen is simple and can indicate the need for early specialist assessment.</td>
</tr>
<tr>
<td>Consider a bedside water swallow screen for those with advanced frailty, particularly in context of dementia</td>
<td></td>
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<tr>
<td>Assess fluid status and hydration.</td>
<td>Dry mouth, thirst, and urine colour may be helpful in hydration assessment. However, in an unwell frail individual, a pragmatic approach may be to assume a degree of dehydration unless there is evidence of fluid overload. This is not synonymous with prescribing intravenous fluids; rather, patients should be given opportunity and assistance to drink</td>
</tr>
<tr>
<td>Provide patients with the opportunity to drink and assistance if required.</td>
<td></td>
</tr>
<tr>
<td>In new incontinence:</td>
<td>Urinary retention secondary to constipation is common and easily treatable</td>
</tr>
<tr>
<td>palpate for a distended bladder</td>
<td></td>
</tr>
<tr>
<td>perform a bladder scan</td>
<td></td>
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<tr>
<td>check for faecal loading</td>
<td></td>
</tr>
<tr>
<td>Examine skin and assess pressure area risk.</td>
<td>Frail older adults are vulnerable to skin breakdown, initial assessment provides an important baseline. Non-accidental injury is uncommon, but critical to identify and good documentation plus use of medical photography is key</td>
</tr>
<tr>
<td>Document any bruising.</td>
<td>Older people are the largest group experiencing major trauma, most frequently because of falls from standing height. Traumatic brain injury, fracture, and intra-abdominal injury are common sequelae but may be missed by traditional trauma assessment systems</td>
</tr>
<tr>
<td>Check for trauma and associated injuries in those who have fallen or been found on the floor; arranging imaging as appropriate</td>
<td></td>
</tr>
<tr>
<td>Assess gait and inspect feet and footwear</td>
<td>Is footwear appropriate, could toenail overgrowth be contributing to poor mobility, do the heels show areas of pressure damage?</td>
</tr>
</tbody>
</table>
Figures

Fig 1 Comprehensive assessment of older adults in acute care settings
Fig 2 Some practical tools for assessment of an older adult